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Odell, A , Delin, A , Johansson, B , Ulman, K , Narasimhan, S , Rungger, I , Sanvito, S ,	Comparison between s- and d-electron mediated transport in a photoswitching dithienylethene molecule using ab initio transport methods	Article	PHYSICAL REVIEW B		84	16	-	2011
Engquist, B , Holst, H , Runborg, O ,	MULTI-SCALE METHODS FOR WAVE PROPAGATION IN HETEROGENEOUS MEDIA	Article	COMMUNICATIONS IN MATHEMATICAL SCIENCES		9	1	33-56	2011
Benjaminsson, S , Lansner, A ,	Adaptive sensor drift counteraction by a modular neural network	Meeting Abstract	CHEMICAL SENSES		36	1	E41-E41	2011
Herman, P , Lansner, A ,	Odor recognition framework for evaluating olfactory codes	Meeting Abstract	CHEMICAL SENSES		36	1	E17-E17	2011
Murugan, NA , Kongsted, J , Rinkevicius, Z , Agren, H ,	Demystifying the solvatochromic reversal in Brooker's merocyanine dye	Article	PHYSICAL CHEMISTRY CHEMICAL PHYSICS		13	4	1290-1292	2011
de Almeida, KJ , Ramalho, TC , Rinkevicius, Z , Vahtras, O , Agren, H , Cesar, A ,	Theoretical Study of Specific Solvent Effects on the Optical and Magnetic Properties of Copper(II) Acetylacetonate	Article	JOURNAL OF PHYSICAL CHEMISTRY A		115	8	1331 -1339	2011
Rasam, A , Brethouwer, G , Schlatter, P , Li, Q , Johansson, AV ,	Effects of modelling, resolution and anisotropy of subgrid-scales on large eddy simulations of channel flow	Article	JOURNAL OF TURBULENCE		12	10	20-Jan	2011
Orlu, R , Schlatter, P ,	On the fluctuating wall-shear stress in zero pressure-gradient turbulent boundary layer flows	Article	PHYSICS OF FLUIDS		23	2	-	2011
Marxen, O , Henningson, DS ,	The effect of small-amplitude convective disturbances on the size and bursting of a laminar separation bubble	Article	JOURNAL OF FLUID MECHANICS		671		Jan-33	2011
Bagheri, S , Henningson, DS ,	Transition delay using control theory	Article	PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES		369	1940	1365 -1381	2011
Ganguly, P , Schravendijk, P , Hess, B , van der Vegt, NFA ,	Ion Pairing in Aqueous Electrolyte Solutions with Biologically Relevant Anions	Article	JOURNAL OF PHYSICAL CHEMISTRY B		115	13	3734-3739	2011
Pietzsch, A , Sun, YP , Hennies, F , Rinkevicius, Z , Karlsson, HO , Schmitt, T , Strocov, VN , Andersson, J , Kennedy, B , Schlappa, J , et al	Spatial Quantum Beats in Vibrational Resonant Inelastic Soft X-Ray Scattering at Dissociating States in Oxygen	Article	PHYSICAL REVIEW LETTERS		106	15	-	2011
Fujii, H , Sato, K , Bergqvist, L , Dederichs, PH , Katayama-Yoshida, H ,	Interstitial Donor Codoping Method in (Ga, Mn)As to Increase Solubility of Mn and Curie Temperature	Article	APPLIED PHYSICS EXPRESS		4	4	-	2011
Murugan, NA , Rinkevicius, Z , Agren, H ,	Modeling Solvatochromism of Nile Red in Water	Article	INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY		111	08-Jul	1521 -1530	2011
Monokrousos, Antonios; Brandt, Luca; Mavriplis, Catherine; Henningson, Dan Stefan	Optimal disturbances above and upstream a flat plate with an elliptic leading edge	Rapport						2011
Tammisola, O , Lundell, F , Schlatter, P , Wehrfritz, A , Soderberg, LD ,	Global linear and nonlinear stability of viscous confined plane wakes with co-flow	Article	JOURNAL OF FLUID MECHANICS		675		397 -434	2011
Rinkevicius, Z , Murugan, NA , Kongsted, J , Aidas, K , Steindal, AH , Agren, H ,	Density Functional Theory/Molecular Mechanics Approach for Electronic g-Tensors of Solvated Molecules	Article	JOURNAL OF PHYSICAL CHEMISTRY B		115	15	4350 -4358	2011
Murail, S , Wallner, B , Trudell, JR , Bertaccini, E , Lindahl, E ,	Microsecond Simulations Indicate that Ethanol Binds between Subunits and Could Stabilize an Open-State Model of a Glycine Receptor	Article	BIOPHYSICAL JOURNAL		100	7	1642 -1650	2011
Bruderle, D , Petrovici, MA , Vogginger, B , Ehrlich, M , Pfeil, T , Millner, S , Grubl, A , Wendt, K , Muller, E , Schwartz, MO , et al	A comprehensive workflow for general-purpose neural modeling with highly configurable neuromorphic hardware systems	Article	BIOLOGICAL CYBERNETICS		104	05-Apr	263-296	2011
Alfredsson, PH , Orlu, R , Schlatter, P ,	The viscous sublayer revisited-exploiting self-similarity to determine the wall position and friction velocity	Article	EXPERIMENTS IN FLUIDS		51	1	271 -280	2011
Bergman, A , Skubic, B , Hellsvik, J , Nordstrom, L , Delin, A , Eriksson, O ,	Ultrafast switching in a synthetic antiferromagnetic magnetic random-access memory device	Article	PHYSICAL REVIEW B		83	22	-	2011
Murugan, NA , Kongsted, J , Rinkevicius, Z , Aidas, K , Mikkelsen, KV , Agren, H ,	Hybrid density functional theory/molecular mechanics calculations of two-photon absorption of dimethylamino nitro stilbene in solution	Article	PHYSICAL CHEMISTRY CHEMICAL PHYSICS		13	27	12506 -12516	2011
Chen, X , Rinkevicius, Z , Luo, Y , Agren, H , Cao, ZX ,	Role of the (3)(pi pi*) State in Photolysis of Lumisantonin: Insight from ab Initio Studies	Article	JOURNAL OF PHYSICAL CHEMISTRY A		115	26	7815 -7822	2011
Taroni, A , Bergman, A , Bergqvist, L , Hellsvik, J , Eriksson, O ,	Suppression of Standing Spin Waves in Low-Dimensional Ferromagnets	Article	PHYSICAL REVIEW LETTERS		107	3	-	2011
Livenson, Ilja; Laure, Erwin	Towards Transparent Integration of Heterogeneous Cloud Storage Platforms	Konferensbidrag		4th International Worksho 4th International Workshop on Data-Intensive Distributed Computing, DIDC 2011. San Jose, CA. 8 June 2011 - 8 June 2011			27-34	2011
Schliephake, M , Aguilar, X , Laure, E ,	Design and Implementation of a Runtime System for Parallel Numerical Simulations on Large-Scale Clusters	Proceedings Paper	PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON COMPUTATIONAL SCIENCE (ICCS)		4		2105 -2114	2011
Kamali Sarvestani, Iman; Lindahl, Mikael; Hellgren Kotaleski, Jeanette; Ekeberg, Örjan	The arbitration-extension hypothesis : A hierarchical interpretation of the functional organization of the basal ganglia	Artikel i tidskrift	Frontiers in Systems Neuroscience		5		13	2011
Bergqvist, L , Sato, K , Katayama-Yoshida, H , Dederichs, PH ,	Computational materials design for high-T-c (Ga, Mn)As with Li codoping	Article	PHYSICAL REVIEW B		83	16	-	2011
Li, Qiang; Schlatter, Philipp	Large-eddy simulation of a spatially developing turbulent boundary layer with passive scalar transport : Part I-flow statistics	Rapport						2011
Li, Qiang; Schlatter, Philipp	Large-eddy simulation of a spatially developing turbulent boundary layer with passive scalar transport : Part II-turbulence structures	Rapport						2011
Lenaers, P , Li, Q , Brethouwer, G , Schlatter, P , Orlu, R ,	Negative streamwise velocities and other rare events near the wall in turbulent flows	Proceedings Paper	13TH EUROPEAN TURBULENCE CONFERENCE (ETC13): WALL-BOUNDED FLOWS AND CONTROL OF TURBULENCE		318		-	2011
Schlatter, Philipp; Li, Qiang; Hussain, Fazle; Henningson, Dan S.	On the vortical structures of a turbulent boundary layer at high Reynolds number	Rapport						2011
Li, Qiang; Chen, Xi; Wu, You; She, Zhen-Su; Schlatter, Philipp; Henningson, Dan S.; Hussain, Fazle	Understanding wall turbulence : Part II: analysis of turbulent boundary layer	Rapport						2011
Segalini, A , Orlu, R , Schlatter, P , Alfredsson, PH , Ruedi, JD , Talamelli, A ,	A method to estimate turbulence intensity and transverse Taylor microscale in turbulent flows from spatially averaged hot-wire data	Article	EXPERIMENTS IN FLUIDS		51	3	693 -700	2011
Popovic, J , Runborg, O ,	Analysis of a fast method for solving the high frequency Helmholtz equation in one dimension	Article	BIT NUMERICAL MATHEMATICS		51	3	721-755	2011
Sun, YP , Pietzsch, A , Hennies, F , Rinkevicius, Z , Karlsson, HO , Schmitt, T , Strocov, VN , Andersson, J , Kennedy, B , Schlappa, J , et al	Internal symmetry and selection rules in resonant inelastic soft x-ray scattering	Article	JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS		44	16	-	2011
Auffarth, Benjamin; Kaplan, Bernhard; Anders, Lansner; Stockholm University, Stockholm, Sweden)	Map formation in the olfactory bulb by axon guidance of olfactory neurons	Artikel i tidskrift	Frontiers in Systems Neuroscience		5	0		2011
Engquist, Björn; Holst, Henrik; Runborg, Olof	Multiscale Methods for One Dimensional Wave Propagation with High Frequency Initial Data	Rapport						2011
Rinkevicius, Z , Murugan, NA , Kongsted, J , Frecus, B , Steindal, AH , Agren, H ,	Density Functional Restricted-Unrestricted/Molecular Mechanics Theory for Hyperfine Coupling Constants of Molecules in Solution	Article	JOURNAL OF CHEMICAL THEORY AND COMPUTATION		7	10	3261 -3271	2011

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Engquist, Björn; Holst, Henrik; Runborg, Olof	Analysis of HMM for One Dimensional Wave Propagation Problems Over Long Time	Artikel i tidskrift				1111,254		2011
Tempelmann, David; Schrader, Lars-Uve; Hanifi, Ardeshir; Brandt, Luca; Henningson, Dan	Swept-wing boundary-layer receptivity to localised surface roughness	Artikel i tidskrift	Journal of Fluid Mechanics					2011
Tempelmann, David; Hosseini, Seyed M.; Hanifi, Ardeshir; Henningson, Dan	Stabilisation of a swept-wing boundary layer by localised surface roughness	Rapport						2011
van der Spoel, D, Hess, B,	GROMACS-the road ahead	Article	WILEY INTERDISCIPLINARY REVIEWS-COMPUTATIONAL MOLECULAR SCIENCE		1	5	710-715	2011
Muddukrishna, Ananya; Brorsson, Mats; Vlassov, Vladimir	A Locality Approach to Architecture-aware Task-scheduling in OpenMP	Konferensbidrag		MCC-2011. Fourth Swedish Workshop on Multicore Computing. Linköping University. Linköping, Sweden. November 23-25, 2011.				2011
Aguilar, Xavier; Schliephake, Michael; Vahtras, Olav; Gimenez, Judit; Laure, Erwin	Scaling Dalton, a molecular electronic structure program	Konferensbidrag		Seventh International Conference on e-Science, e-Science 2011, 5-8 December 2011, Stockholm, Sweden			256-262	2011
Benjaminsson, Simon; Lansner, Anders	Extreme scaling of brain simulation on JUGENE	Rapport						2011
Klaus, A.; Planert, H.; Hjorth, Johannes; Berke, J.D.; Silberberg, G.; Hellgren Kotaleski, Jeanette	Striatal fast-spiking interneurons : from firing patterns to postsynaptic impact	Artikel i tidskrift	Frontiers in Systems Neuroscience		5	July	57	2011
Fino, E; Paille, V; Du, K; Morera Herreras, T; Hellgren Kotaleski, Jeanette; Venance, L	GABA operates as a Hebbian/anti-Hebbian switch for spike-timing-dependent plasticity 	Konferensbidrag		Neuroscience 2011, Washington, DC, November 12-16, 2011				2011
Brandi, Maya; Brocke, E; Talukdar, Husain Ahammad; Hanke, Michael; Bhalla, US; Djurfeldt, Mikael; Hellgren Kotaleski, Jeanette	Multiscale modeling through MUSIC multi-simulation : Modeling a dendritic spine using MOOSE and NeuroRD	Konferensbidrag		4th INCF Congress of Neuroinformatics, Boston, USA, 4 Sep - 6 Sep, 2011				2011
Lindahl, Mikael; Hellgren Kotaleski, Jeanette	Short term plasticity within the basal ganglia - a systems level computational investigation	Artikel i tidskrift	BMC neuroscience (Online)	BMC Neuroscience	12	Suppl 1	P145	2011
Odell, A, Delin, A, Johansson, B, Cawkwell, MJ, Niklasson, AMN,	Geometric integration in Born-Oppenheimer molecular dynamics	Article	JOURNAL OF CHEMICAL PHYSICS		135	22	-	2011
Elber, R, Ruymgaart, AP, Hess, B,	SHAKE parallelization	Review	EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS		200	1	211-223	2011
Varisteas, Georgios; Brorsson, Mats; Faxén, Karl-Filip	Dynamic Inter-core Scheduling in Barrelfish : avoiding contention with malleable process domains	Konferensbidrag		MCC-2011. Fourth Swedish Workshop on Multicore Computing. Linköping University. Linköping, Sweden. November 23-25, 2011.				2011
Apostolov, Rossen; Axner, Lilit; Agren, Hans; Ayugade, Eduard; Duta, Mihai; Gelpi, Jose Luis; Gimenez, Judit; Goni, Ramon; Hess, Berk; Jamitzky, Ferdinand; Kranzmuller, Dieter; Labarta, Jesus; Laure, Erwin; Lindahl, Erik; Orozco, Modesto; Peterson, Magnus; Satzger, Helmut; Trefethen, Anne	Scalable Software Services for Life Science	Konferensbidrag		Proceedings of 9th HealthGrid 2011. Bristol. 27th - 28th June 2011				2011
Duguet, Y, Le Maitre, O, Schlatter, P,	Stochastic and deterministic motion of a laminar-turbulent front in a spanwisely extended Couette flow	Article	PHYSICAL REVIEW E		84	6	-	2011
Pronk, Sander; Larsson, Per; Pouya, Iman; Bowman, Gregory; Haque, Imran; Beauchamp, Kyle; Hess, Berk; Pande, Vijay; Kasson, Peter; Lindahl, Erik	Copernicus : A new paradigm for parallel adaptive molecular dynamics	Konferensbidrag		Proceedings of 2011 SC - International Conference for High Performance Computing, Networking, Storage and Analysis, SC11; Seattle, WA; 12 November 2011 through 18 November 2011			60	2011
Howard, RJ, Murail, S, Ondricek, KE, Corringer, PJ, Lindahl, E, Trudell, JR, Harris, RA,	Structural basis for alcohol modulation of a pentameric ligand-gated ion channel	Article	PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA		108	29	12149 -12154	2011
Talamelli, A, Segalini, A, Orlu, R, Schlatter, P, Alfredsson, PH,	A method to correct third and fourth order moments in turbulent flows	Proceedings Paper	13TH EUROPEAN TURBULENCE CONFERENCE (ETC13): STATISTICAL ASPECTS, MODELLING AND SIMULATIONS OF TURBULENCE		318		-	2011
Orlu, R, Schlatter, P,	Inflow length and tripping effects in turbulent boundary layers	Proceedings Paper	13TH EUROPEAN TURBULENCE CONFERENCE (ETC13): WALL-BOUNDED FLOWS AND CONTROL OF TURBULENCE		318		-	2011
Schlatter, P, Orlu, R,	Turbulent asymptotic suction boundary layers studied by simulation	Proceedings Paper	13TH EUROPEAN TURBULENCE CONFERENCE (ETC13): WALL-BOUNDED FLOWS AND CONTROL OF TURBULENCE		318		-	2011
Schlatter, Philipp; Örlü, Ramis; Li, Qiang; Brethouwer, Gert; Johansson, Arne; Alfredsson, P. Henrik; Henningson, Dan	Progress in simulations of turbulent boundary layers	Konferensbidrag		7th International Symposium on Turbulence and Shear Flow Phenomena. 28-31 July 2011. Ottawa, Canada				2011
Schlatter, Philipp; Malm, Johan; Brethouwer, Geert; Johansson, Arne V.; Henningson, Dan S.	Large-scale Simulations of Turbulence : HPC and Numerical Experiments	Konferensbidrag		7th IEEE Conference on e-Science. Stockholm, Sweden. 5-8 Dec. 2011			319-324	2011
Brethouwer, G, Schlatter, P, Johansson, AV,	Turbulence, instabilities and passive scalars in rotating channel flow	Proceedings Paper	13TH EUROPEAN TURBULENCE CONFERENCE (ETC13): INSTABILITY, TRANSITION, GRID TURBULENCE AND JETS		318		-	2011
Duguet, Yohann; Schlatter, Philipp	Stochastic motion of a laminar/turbulent interface in a shear flow	Konferensbidrag		13th European Turbulence Conference (ETC13). Warsaw, Poland. SEP 12-15, 2011				2011
Brethouwer, Geert; Schlatter, Philipp; Johansson, Arne	Effects of rapid spanwise rotation on turbulent channel flow with a passive scalar	Konferensbidrag		7th International Symposium on Turbulence and Shear Flow Phenomena. 28-31 July 2011. Ottawa, Canada				2011
Tsuji, Y.; Imahama, S.; Schlatter, Philipp; Alfredsson, P. Henrik; Johansson, Arne	Pressure fluctuation in high-Reynolds number turbulent boundary layer : results from experiments and numerical simulations	Konferensbidrag		7th International Symposium on Turbulence and Shear Flow Phenomena. 28-31 July 2011. Ottawa, Canada				2011
Malm, Johan; Schlatter, Philipp; Sandham, Neil D.	A vorticity stretching diagnostic for turbulent flows	Konferensbidrag		7th International Symposium on Turbulence and Shear Flow Phenomena. 28-31 July 2011. Ottawa, Canada				2011
Brethouwer, G, Duguet, Y, Schlatter, P,	Numerical study of turbulent-laminar patterns in MHD, rotating and stratified shear flows	Proceedings Paper	DIRECT AND LARGE-EDDY SIMULATION VIII		15		125 -+	2011
Brandi, Maya; Brocke, Ekaterina; Talukdar, Husain A.; Hanke, Michael; Bhalla, Upinder S.; Hällgren-Kotaleski, Jeanette; Djurfeldt, Mikael	Connecting MOOSE and NeuroRD through MUSIC : towards a communication framework for multi-scale modeling	Konferensbidrag		Computational Neuroscience, Stockholm, Sweden, 23-28 July 2011				2011
Collin, Mikael; Brorsson, Mats; Öberg, Johnny	A performance and energy exploration of dictionary code compression architectures	Konferensbidrag		IGCC'2011, Orlando, Florida, USA, July 25-28, 2011			08-Jan	2011
Podobas, Artur; Brorsson, Mats	Architecture-aware Task-scheduling : A thermal approach	Konferensbidrag		FASPP'11				2011
Alexandru, Iordan; Podobas, Artur; Natvig, Lasse; Brorsson, Mats	Investigating the Potential of Energy-savings Using a Fine-grained Task Based Programming Model on Multi-cores	Konferensbidrag		2nd Workshop on Applications for Multi and Many Core Processors. San Jose. June 4-8th, 2011				2011
Deusebio, E, Schlatter, P, Brethouwer, G, Lindborg, E,	Direct numerical simulations of stratified open channel flows	Proceedings Paper	13TH EUROPEAN TURBULENCE CONFERENCE (ETC13): WALL-BOUNDED FLOWS AND CONTROL OF TURBULENCE		318		-	2011
Tempelmann, David; Schrader, Lars-Uve; Hanifi, Ardeshir; Brandt, Luca; Heninngson, Dan S.	Numerical study of boundary-layer receptivity on a swept wing	Konferensbidrag		6th AIAA Theoretical Fluid Mechanics Conference, Honolulu, Hawaii, June 27-30, 2011				2011
Schrader, Lars-Uve; Tempelmann, David; Brandt, Luca; Hanifi, Ardeshir; Heninngson, Dan S.	Excitation of cross-ow vortices by surface roughness on a sweptwing	Konferensbidrag		CASI AERO 2011, Montreal, Canada				2011
Páll, Szilárd; Hess, Berk; Lindahl, Erik	Poster - 3D Tixels : A highly efficient algorithm for GPU/CPU-acceleration of molecular dynamics on heterogeneous parallel architectures	Konferensbidrag		2011 High Performance Computing Networking, Storage and Analysis, SC'11, Co-located with SC'11, 12 November 2011 through 18 November 2011, Seattle, WA			71-72	2011

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Tofigh, A.; Sjölund, E.; Höglund, M.; Lagergren, Jens	A global structural em algorithm for a model of cancer progression	Konferensbidrag	Adv. Neural Inf. Process. Sy	25th Annual Conference on Neural Information Processing Systems 2011, NIPS 2011, 12 December 2011 through 14 December 2011, Granada				2011
Schwaiger, CS , Bjelkmar, P , Hess, B , Lindahl, E ,	3(10)-Helix Conformation Facilitates the Transition of a Voltage Sensor S4 Segment toward the Down State	Article	BIOPHYSICAL JOURNAL		100	6	1446-1454	2011
Sardina, G , Picano, F , Schlatter, P , Brandt, L , Casciola, CM ,	Large Scale Accumulation Patterns of Inertial Particles in Wall-Bounded Turbulent Flow	Article	FLOW TURBULENCE AND COMBUSTION		86	04-Mar	519 -532	2011
Monokrousos, A , Bottaro, A , Brandt, L , Di Vita, A , Henningson, DS ,	Nonequilibrium Thermodynamics and the Optimal Path to Turbulence in Shear Flows	Article	PHYSICAL REVIEW LETTERS		106	13	-	2011
Schlatter, P , Bagheri, S , Henningson, D ,	Self-sustained global oscillations in a jet in crossflow	Article	THEORETICAL AND COMPUTATIONAL FLUID DYNAMICS		25	04-Jan	129-146	2011
Walsh, EJ , Mc Eligot, DM , Brandt, L , Schlatter, P ,	Entropy Generation in a Boundary Layer Transitioning Under the Influence of Freestream Turbulence	Article	JOURNAL OF FLUIDS ENGINEERING-TRANSACTIONS OF THE ASME		133	6	-	2011
Semeraro, O , Bagheri, S , Brandt, L , Henningson, DS ,	Feedback control of three-dimensional optimal disturbances using reduced-order models	Article	JOURNAL OF FLUID MECHANICS		677		63-102	2011
Cossu, C , Brandt, L , Bagheri, S , Henningson, DS ,	Secondary threshold amplitudes for sinuous streak breakdown	Article	PHYSICS OF FLUIDS		23	7	-	2011
Li, Q , Schlatter, P , Henningson, DS ,	Comparison of SGS Models for Passive Scalar Mixing in Turbulent Channel Flows	Proceedings Paper	DIRECT AND LARGE-EDDY SIMULATION VIII		15		131-136	2011
Ilak, M , Schlatter, P , Bagheri, S , Chevalier, M , Henningson, DS ,	Stability of a jet in crossflow	Editorial Material	PHYSICS OF FLUIDS		23	9	-	2011
Schlatter, P , Li, Q , Brethouwer, G , Johansson, AV , Henningson, DS ,	Structure of a turbulent boundary layer studied by DNS	Proceedings Paper	DIRECT AND LARGE-EDDY SIMULATION VIII		15		14-Sep	2011
Sardina, G , Brandt, L , Schlatter, P , Casciola, CM , Henningson, DS ,	Transport of inertial particles in turbulent boundary layers	Proceedings Paper	13TH EUROPEAN TURBULENCE CONFERENCE (ETC13): PARTICLES IN TURBULENCE, TRANSPORT PROCESSES AND MIXING		318		-	2011
Larsson, P , Hess, B , Lindahl, E ,	Algorithm improvements for molecular dynamics simulations	Review	WILEY INTERDISCIPLINARY REVIEWS-COMPUTATIONAL MOLECULAR SCIENCE		1	1	93 -108	2011
Linares, M , Stafstrom, S , Rinkevicius, Z , Agren, H , Norman, P ,	Complex Polarization Propagator Approach in the Restricted Open-Shell, Self-Consistent Field Approximation: The Near K-Edge X-ray Absorption Fine Structure Spectra of Allyl and Copper Phthalocyanine	Article	JOURNAL OF PHYSICAL CHEMISTRY B		115	18	5096-5102	2011
Kasson, PM , Lindahl, E , Pande, VS ,	Water Ordering at Membrane Interfaces Controls Fusion Dynamics	Article	JOURNAL OF THE AMERICAN CHEMICAL SOCIETY		133	11	3812 -3815	2011
Lundqvist, M , Herman, P , Lansner, A ,	Theta and Gamma Power Increases and Alpha/Beta Power Decreases with Memory Load in an Attractor Network Model	Article	JOURNAL OF COGNITIVE NEUROSCIENCE		23	10	3008 -3020	2011
Silverstein, DN , Lansner, A ,	Is attentional blink a byproduct of neocortical attractors?	Article	FRONTIERS IN COMPUTATIONAL NEUROSCIENCE		5		-	2011
Sigfridsson, A , Haraldsson, H , Ebbers, T , Knutsson, H , Sakuma, H ,	In vivo SNR in DENSE MRI; temporal and regional effects of field strength, receiver coil sensitivity and flip angle strategies	Article	MAGNETIC RESONANCE IMAGING		29	2	202-208	2011
Dyverfeldt, P , Kvitting, JPE , Carlhall, CJ , Boano, G , Sigfridsson, A , Hermansson, U , Bolger, AF , Engvall, J , Ebbers, T ,	Hemodynamic Aspects of Mitral Regurgitation Assessed by Generalized Phase-Contrast MRI	Article	JOURNAL OF MAGNETIC RESONANCE IMAGING		33	3	582-588	2011
Haraldsson, H , Sigfridsson, A , Sakuma, H , Engvall, J , Ebbers, T ,	Influence of the FID and Off-Resonance Effects in DENSE MRI	Article	MAGNETIC RESONANCE IN MEDICINE		65	4	1104-1112	2011
Alling, B , Ruban, AV , Karimi, A , Hultman, L , Abrikosov, IA ,	Unified cluster expansion method applied to the configurational thermodynamics of cubic Ti1-xAlxN	Article	PHYSICAL REVIEW B		83	10	-	2011
Markl, M , Kilner, PJ , Ebbers, T ,	Comprehensive 4D velocity mapping of the heart and great vessels by cardiovascular magnetic resonance	Review	JOURNAL OF CARDIOVASCULAR MAGNETIC RESONANCE		13		-	2011
Gebhardt, T , Music, D , Ekholm, M , Abrikosov, IA , von Appen, J , Dronskowski, R , Wagner, D , Mayer, J , Schneider, JM ,	Influence of chemical composition and magnetic effects on the elastic properties of fcc Fe-Mn alloys	Article	ACTA MATERIALIA		59	4	1493 -1501	2011
Dyverfeldt, P , Sigfridsson, A , Knutsson, H , Ebbers, T ,	A Novel MRI Framework for the Quantification of Any Moment of Arbitrary Velocity Distributions	Article	MAGNETIC RESONANCE IN MEDICINE		65	3	725-731	2011
Isaeva, LE , Bazhanov, DI , Isaev, EI , Eremeev, SV , Kulkova, SE , Abrikosov, IA ,	Dynamic stability of palladium hydride: An ab initio study	Article	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY		36	1	1254 -1258	2011
Axholt, M , Skoglund, MA , O'Connell, SD , Cooper, MD , Ellis, SR , Ynnerman, A ,	Parameter Estimation Variance of the Single Point Active Alignment Method in Optical See-Through Head Mounted Display Calibration	Proceedings Paper	2011 IEEE VIRTUAL REALITY CONFERENCE (VR)				27 -34	2011
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Aneq, MA , Nylander, E , Ebbers, T , Engvall, J ,	Determination of right ventricular volume and function using multiple axially rotated MRI slices	Article	CLINICAL PHYSIOLOGY AND FUNCTIONAL IMAGING		31	3	233 -239	2011
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Kessler, Christoph	Programming Techniques for the Cell Processor	Artikel i tidskrift	it - Information Technology		53	2	66-74	2011

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Danylenko, Antonina; Löwe, Welf; Kessler, Christoph	Comparing Machine Learning Approaches for Context-Aware Composition	Konferensbidrag	Software Composition	10th International Conference on Software Composition, SC 2011; Zurich; Switzerland			18-33	2011
Eriksson, Mattias; Kessler, Christoph	Integrated Offset Assignment	Konferensbidrag	Proceedings 9th Workshop	9th Workshop on Optimizations for DSP and Embedded Systems (ODES-9), co-located with CGO-2011, Chamonix, France, 2 April 2011			47-54	2011
Melot, Nicolas; Avdic, Kenan; Kessler, Christoph; Keller, Jörg	Memory-intensive parallel computing on the Single Chip Cloud Computer: A case study with Mergesort	Konferensbidrag		ACACES 2011 Seventh International Summer School on Advanced Computer Architecture and Compilation for High-Performance and Embedded Systems, July 10-16, Fiuggi, Italy				2011
Melot, Nicolas; Avdic, Kenan; Kessler, Christoph; Keller, Jörg	Parallel sorting on Intel Single-Chip Cloud computer	Konferensbidrag	3rd Many-core Applicatio	3rd Many-core Applications Research Community, Ettlingen, July 5-6 2011, Germany			107-110	2011
Dyverfeldt, Petter; Sigfridsson, Andreas; Knutsson, Hans; Ebbers, Tino	MR flow imaging beyond the mean velocity: Estimation of the skew and kurtosis of intravoxel velocity distributions	Konferensbidrag	ISMRM 2011	ISMRM 19th Annual Meeting & Exhibition,7-13 May 2011, Montréal, Québec, Canada				2011
Melot, Nicolas; Avdic, Kenan; Kessler, Christoph; Keller, J.	Investigation of main memory bandwidth on intel single-chip cloud computer	Konferensbidrag	3rd Many-Core Applicatio	3rd Many-Core Applications Research Community Symposium, MARC 2011			107-110	2011
Dastgeer, Usman; Kessler, Christoph	A performance-portable generic component for 2D convolution computations on GPU-based systems	Konferensbidrag	Fourth Swedish Workshop	Swedish Workshop on Multi-Core Computing	S. 39-44		39-44	2011
Ali, Akhtar; Dastgeer, Usman; Kessler, Christoph	OpenCL for programming shared memory multicore CPUs	Konferensbidrag	Fourth Swedish Workshop	Swedish Workshop on Multi-Core Computing	S. 65-70		65-70	2011
Avdic, Kenan; Melot, Nicolas; Kessler, Christoph; Keller, Jörg	Pipelined parallel sorting on the Intel SCC	Konferensbidrag	Fourth Swedish Workshop	Swedish Workshop on Multi-Core Computing	S. 96-101		96-101	2011
Lundström, Claes; Ynnerman, Anders; Ljung, Patric	Method for reducing the amount of data to be processed in a visualization pipeline	Patent						2011
Ljung, Patric; Ynnerman, Anders	Computer processing of multi-dimensional data	Patent						2011
Sullivan, PF, Allander, F, Lysholm, F, Goh, S, Persson, B, Jacks, A, Evengard, B, Pedersen, NL, Andersson, B,	An unbiased metagenomic search for infectious agents using monozygotic twins discordant for chronic fatigue	Article	BMC MICROBIOLOGY		11		-	2011
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Jauhiainen, A , Nerman, O , Michailidis, G , Jornsten, R	Transcriptional and metabolic data integration and modeling for identification of active pathways	Article	BIOSTATISTICS	13	4	748 -761	2012
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Hoel, Håkon; Von Schwerin, Erik; Szepessy, Anders; Tempone, Raul	Adaptive Multi Level Monte Carlo Simulation	Konferensbidrag	Numerical Analysis of Mult Winter Workshop at the Banff International Research Station 2009	82		217-234	2012
Engquist, Björn; Holst, Henrik; Runborg, Olof	Multiscale Methods for Wave Propagation in Heterogeneous Media Over Long Time	Kapitel i bok, del av antologi	Numerical Analysis of Multiscale Computations			167-186	2012
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Malm, J , Schlatter, P , Sandham, ND ,	A vorticity stretching diagnostic for turbulent and transitional flows	Article	THEORETICAL AND COMPUTATIONAL FLUID DYNAMICS	26	6	485 -499	2012
Chen, X , Tian, GJ , Rinkevicius, Z , Vahtras, O , Cao, ZX , Agren, H , Luo, Y ,	Spectral character of intermediate state in solid-state photoarrangement of alpha-santonin	Article	CHEMICAL PHYSICS	405		40 -45	2012
Chen, X , Rinkevicius, Z , Luo, Y , Agren, H , Cao, ZX ,	Theoretical Studies on the Photoinduced Rearrangement Mechanism of a-Santonin	Article	CHEMPHYSCHEM	13	1	353-362	2012
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Muld, TW , Efraimsson, G , Henningson, DS ,	Flow structures around a high-speed train extracted using Proper Orthogonal Decomposition and Dynamic Mode Decomposition	Article	COMPUTERS & FLUIDS	57		87 -97	2012
Benjaminsson, Simon; Silverstein, David; Herman, Pawel; Melis, Paul; Slavnic, Vladimir; Spasojevic, Marko; Alexiev, Kiril; Lansner, Anders	Visualization of Output from Large-Scale Brain Simulations	Rapport					2012
Lansner, Anders; Diesmann, Markus	Virtues, Pitfalls, and Methodology of Neuronal Network Modeling and Simulations on Supercomputers	Kapitel i bok, del av antologi	Computational Systems Neurobiology			283-315	2012
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Dowling, J , Payberah, AH ,	Shuffling with a Croupier: Nat-Aware Peer-Sampling	Proceedings Paper	2012 IEEE 32ND INTERNATIONAL CONFERENCE ON DISTRIBUTED COMPUTING SYSTEMS (ICDCS)			102-111	2012
Murugan, NA , Kongsted, J , Rinkevicius, Z , Agren, H ,	Color modeling of protein optical probes	Article	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	14	3	1107 -1112	2012
Lenaers, P , Li, Q , Brethouwer, G , Schlatter, P , Orlu, R ,	Rare backflow and extreme wall-normal velocity fluctuations in near-wall turbulence	Article	PHYSICS OF FLUIDS	24	3	-	2012
Muld, Tomas W.; Efraimsson, Gunilla; Henningson, Dan S.	Mode Decomposition and Slipstream Velocities in the Wake of Two High-Speed Trains	Artikel i tidskrift	The international Journal of railway technology				2012
Hoel, Håkon; von Schwerin, Erik; Szepessy, Anders; Tempone, Raul	Implementation and Analysis of an Adaptive Multilevel Monte Carlo Algorithm	Rapport					2012
Bayer, Christian; Hoel, Håkon; Kadir, Ashraful; Plechac, Petr; Sandberg, Mattias; Szepessy, Anders; Tempone, Raul	How accurate is molecular dynamics?	Rapport					2012
Delczeg-Czirjak, EK , Gercsi, Z , Bergqvist, L , Eriksson, O , Szunyogh, L , Nordblad, P , Johansson, B , Vitos, L ,	Magnetic exchange interactions in B-, Si-, and As-doped Fe2P from first-principles theory	Article	PHYSICAL REVIEW B	85	22	-	2012
Smith, Anderson D.; Vaziri, Sam; Delin, Anna; Östling, Mikael; Lemme, Max C.	Strain engineering in suspended graphene devices for pressure sensor applications	Konferensbidrag		2012 13th International C 2012 13th International Conference on Ultimate Integration on Silicon, ULIS 2012; Grenoble;6 March 2012 through 7 March 2012		21-24	2012
Brethouwer, G , Duguet, Y , Schlatter, P ,	Turbulent-laminar coexistence in wall flows with Coriolis, buoyancy or Lorentz forces	Article	JOURNAL OF FLUID MECHANICS	704		137 -172	2012
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Silva, DL , Murugan, NA , Kongsted, J , Rinkevicius, Z , Canuto, S , Agren, H ,	The Role of Molecular Conformation and Polarizable Embedding for One- and Two-Photon Absorption of Disperse Orange 3 in Solution	Article	JOURNAL OF PHYSICAL CHEMISTRY B	116	28	8169-8181	2012
Rehn, Erik M; Benjaminsson, Simon; Lansner, Anders	Event-based Sensor Interface for Supercomputer scale Neural Networks	Rapport					2012
Ekdahl, Y , Farahani, HS , Behm, M , Lagergren, J , Ohman, M ,	A-to-I editing of microRNAs in the mammalian brain increases during development	Article	GENOME RESEARCH	22	8	1477-1487	2012
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Lindahl, E , Murail, S , Howard, RJ , Broemstrup, T , Trudell, JR , Bertaccini, EJ ,	THE MOLECULAR MECHANISM FOR THE DUAL ALCOHOL MODULATION OF CYS-LOOP RECEPTORS	Meeting Abstract	ALCOHOLISM-CLINICAL AND EXPERIMENTAL RESEARCH	36		74A-74A	2012
Murugan, NA , Aidas, K , Kongsted, J , Rinkevicius, Z , Agren, H ,	NMR Spin-Spin Coupling Constants in Polymethine Dyes as Polarity Indicators	Article	CHEMISTRY-A EUROPEAN JOURNAL	18	37	11677-11684	2012
Persaud, Krishna; Bernabei, Mara; Benjaminsson, Simon; Herman, Pawel; Lansner, Anders	Reverse Engineering of Nature in the field of Chemical Sensors	Konferensbidrag		14th International Meeting on Chemical Sensors - IMCS 2012		52-55	2012
Marin, O , Gustavsson, K , Tornberg, AK ,	A highly accurate boundary treatment for confined Stokes flow	Article	COMPUTERS & FLUIDS	66		215-230	2012
Chimata, R , Bergman, A , Bergqvist, L , Sanyal, B , Eriksson, O ,	Microscopic Model for Ultrafast Remagnetization Dynamics	Article	PHYSICAL REVIEW LETTERS	109	15	-	2012
Schlatter, P , Orlu, R ,	Turbulent boundary layers at moderate Reynolds numbers: inflow length and tripping effects	Article	JOURNAL OF FLUID MECHANICS	710		May-34	2012
Podobas, Artur; Brorsson, Mats; Faxén, Karl-Filip	A Quantitative Evaluation of popular Task-Centric Programming Models and Libraries	Rapport					2012
Payberah, AH , Dowling, J , Rahimian, F , Haridi, S ,	Distributed optimization of P2P live streaming overlays	Article	COMPUTING	94	10-Aug	621 -647	2012
Arad, Cosmin; Dowling, Jim; Haridi, Seif	Message-Passing Concurrency for Scalable, Stateful, Reconfigurable Middleware	Konferensbidrag		Middleware 2012 : ACM/IF ACM/IFIP/USENIX 13th International Middleware Conference,December 3-7, 2012, Montreal, Quebec, Canada		208-228	2012
Vuorinen, V , Larmi, M , Schlatter, P , Fuchs, L , Boersma, BJ ,	A low-dissipative, scale-selective discretization scheme for the Navier-Stokes equations	Article	COMPUTERS & FLUIDS	70		195 -205	2012
Varisteas, Georgios; Brorsson, Mats; Faxén, Karl-Filip	Resource management for task-based parallel programs over a multi-kernel. : BIAS: Barrelfish Inter-core Adaptive Scheduling	Konferensbidrag		Proceedings of the 2012 w RESoLVE '12, Second workshop on Runtime Environments, Systems, Layering and Virtualized Environments, London UK, March 3, 2012.		32-36	2012
Varisteas, Georgios; Brorsson, Mats	Automatic Adaptation of Resources to Workload requirements in Nested Fork-join Programming Model	Rapport					2012
Varisteas, Georgios; Brorsson, Mats	Towards automatic adaptation of resource requirements to actual workload for task-based programming models	Konferensbidrag		MCC-2012. Fifth Swedish Workshop on Multicore Computing. KTH University. Stockholm, Sweden. November 22-23, 2012			2012
Li, X , Rinkevicius, Z , Kongsted, J , Murugan, NA , Agren, H ,	Binding Mechanism and Magnetic Properties of a Multifunctional Spin Label for Targeted EPR Imaging of Amyloid Proteins: Insight from Atomistic Simulations and First-Principles Calculations	Article	JOURNAL OF CHEMICAL THEORY AND COMPUTATION	8	11	4766-4774	2012
Schliephake, Michael; Laure, Erwin	Communication Performance Analysis of CRESTA-™s Co-Design Application NEK5000	Konferensbidrag		Workshop <em>Preparing International Conference on High Performance Computing, Networking, Storage and Analysis, SC '12			2012
Sandberg, JAR , Rinkevicius, Z ,	An algorithm for the efficient evaluation of two-electron repulsion integrals over contracted Gaussian-type basis functions	Article	JOURNAL OF CHEMICAL PHYSICS	137	23	-	2012
Tsuji, Y , Imayama, S , Schlatter, P , Alfredsson, PH , Johansson, AV , Marusic, I , Hutchins, N , Monty, J ,	Pressure fluctuation in high-Reynolds-number turbulent boundary layer: results from experiments and DNS	Article	JOURNAL OF TURBULENCE	13	50	19-Jan	2012
Eriksson, O.; Iusan, M.; Thunström, P.; Hellsvik, J.; di Marco, I.; Bergquist, Lars; Dederichs, P.; Sanyal, B.	Theory of diluted magnetic semiconductors	Kapitel i bok, del av antologi		Advanced Functional Materials : A Perspective from Theory and Expe 1		19-Jan	2012
Sarmast, Sasan; Mikkelsen, Robert F.; Henningson, Dan	Numerical simulations of wake interaction between two inline wind turbines	Rapport					2012
Schliephake, M , Laure, E ,	Towards Improving the Communication Performance of CRESTA's Co-Design Application NEK5000	Proceedings Paper	2012 SC COMPANION: HIGH PERFORMANCE COMPUTING, NETWORKING, STORAGE AND ANALYSIS (SCC)			669 -674	2012
Tahan, O.; Brorsson, Mats; Shawky, M.	Introducing task cancellation to OpenMP	Konferensbidrag		Lect. Notes Comput. Sci. 8th International Workshop on OpenMP, IWOMP 2012, 11 June 2012 through 13 June 2012, Rome		73-87	2012
Yoluk, O , Murail, S , Lindahl, E ,	Simulations of Subunit Interactions in the C. Elegans GluCl Ligand-Gated	Meeting Abstract	BIOPHYSICAL JOURNAL	102	3	472A-472A	2012
Howard, RJ , Murail, S , Ondricek, KE , Corringer, PJ , Lindahl, E , Trudell, JR , Harris, RA ,	Structural Basis For Alcohol Modulation of Pentameric Ligand-Gated Ion Channels	Meeting Abstract	BIOPHYSICAL JOURNAL	102	3	411A-411A	2012
Wennberg, C , Murtola, T , Lindahl, E ,	Lattice Summation of Lennard-Jones Interactions in Bilayer Simulations has Critical Effects on Surface Tension	Meeting Abstract	BIOPHYSICAL JOURNAL	102	3	172A-173A	2012
Lindahl, E , Murail, S , Howard, RJ , Broemstrup, T , Trudell, J , Bertaccini, EJ ,	The Molecular Mechanism for the Dual Alcohol Modulation of Cys-Loop Receptors	Meeting Abstract	BIOPHYSICAL JOURNAL	102	3	112A-112A	2012
Trudell, JR , Bertaccini, E , Lindahl, E , Murail, S , Howard, RJ ,	Tracing the Closing of a Ligand-Gated Ion Channel in Atomic Detail: An Unconstrained Four-Microsecond Simulation of GLIC Leads to a Closed State Remarkably Similar to ELIC	Meeting Abstract	BIOPHYSICAL JOURNAL	102	3	113A-114A	2012
Laure, Erwin; Edlund, Åke	The e-Infrastructure Ecosystem : Providing Local Support to Global Science	Kapitel i bok, del av antologi		Large-Scale Computing		19-34	2012
Murail, S , Broemstrup, T , Howard, R , Trudell, J , Bertaccini, EJ , Lindahl, E ,	Molecular mechanism of the dual anesthetic modulation effect on Cys-loop receptors	Meeting Abstract	ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY	243		-	2012
Howard, RJ , Murail, S , Broemstrup, T , Horani, S , Lee, US , Ondricek, KE , Corringer, PJ , Lindahl, E , Bertaccini, EJ , Trudell, JR , et al	Combined functional-computational approach to characterize sites of anesthetic modulation of ligand-gated ion channels	Meeting Abstract	ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY	243		-	2012
Broemstrup, T , Murail, S , Lindahl, E ,	Single-site mutation changes the location of the most favored Desflurane binding site in the GLIC ligand-gated ion channel	Meeting Abstract	ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY	243		-	2012

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Duguet, Y , Schlatter, P , Henningson, DS , Eckhardt, B ,	Self-Sustained Localized Structures in a Boundary-Layer Flow	Article	PHYSICAL REVIEW LETTERS		108	4	-	2012
Ilak, M , Schlatter, P , Bagheri, S , Henningson, DS ,	Bifurcation and stability analysis of a jet in cross-flow: onset of global instability at a low velocity ratio	Article	JOURNAL OF FLUID MECHANICS		696		94-121	2012
Sardina, G , Schlatter, P , Brandt, L , Picano, F , Casciola, CM ,	Wall accumulation and spatial localization in particle-laden wall flows	Article	JOURNAL OF FLUID MECHANICS		699		50-78	2012
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Schwaiger, CS , Borjesson, SI , Hess, B , Elinder, F , Lindahl, E ,	Phe233 in the Voltage-Sensor is Rate Limiting for Channel Closure but not for the Opening	Meeting Abstract	BIOPHYSICAL JOURNAL		102	3	13A-13A	2012
Rehill, B , Walsh, EJ , Schlatter, P , Brandt, L , Zaki, TA , McEligot, DM ,	IDENTIFYING TURBULENT SPOTS IN TRANSITIONAL BOUNDARY LAYERS	Proceedings Paper	PROCEEDINGS OF THE ASME TURBO EXPO 2011, VOL 5, PTS A AND B				1859-1868	2012
Reilly, SJ , Emanuelsson, O , Sennblad, B , Najafabadi, MP , Folkersen, L , Malarstig, A , Lagergren, J , Eriksson, P , Hamsten, A , Odeberg, J , et al	Combined Chromatin and Expression Analysis Reveals Specific Regulatory Mechanisms within Cytokine Genes in the Macrophage Early Immune Response	Article	PLOS ONE		7	2	-	2012
Sardina, G , Schlatter, P , Picano, F , Casciola, CM , Brandt, L , Henningson, DS ,	Self-similar transport of inertial particles in a turbulent boundary laye	Article	JOURNAL OF FLUID MECHANICS		706		584-596	2012
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Ray, A , Lindahl, E , Wallner, B ,	Improved model quality assessment using ProQ2	Article	BMC BIOINFORMATICS		13		-	2012
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Lundqvist, M , Herman, P , Lansner, A ,	Variability of spike firing during theta-coupled replay of memories in a simulated attractor network	Article	BRAIN RESEARCH		1434		152-161	2012
Contreras, FX , Ernst, AM , Haberkant, P , Bjorkholm, P , Lindahl, E , Gonen, B , Tischer, C , Elofsson, A , von Heijne, G , Thiele, C , et al	Molecular recognition of a single sphingolipid species by a protein's transmembrane domain	Article	NATURE		481	7382	525-529	2012
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Benjaminsson, S , Lansner, A ,	Nexa: A scalable neural simulator with integrated analysis	Article	NETWORK-COMPUTATION IN NEURAL SYSTEMS		23	4	254-271	2012
Murail, S , Howard, RJ , Broemstrup, T , Bertaccini, EJ , Harris, RA , Trudell, JR , Lindahl, E ,	Molecular Mechanism for the Dual Alcohol Modulation of Cys-loop Receptors	Article	PLOS COMPUTATIONAL BIOLOGY		8	10	-	2012
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Krishnamurthy, P , Silberberg, G , Lansner, A ,	A Cortical Attractor Network with Martinotti Cells Driven by Facilitating Synapses	Article	PLOS ONE		7	4	-	2012
Sjostrand, J , Sennblad, B , Arvestad, L , Lagergren, J ,	DLRS: gene tree evolution in light of a species tree	Article	BIOINFORMATICS		28	22	2994-2995	2012
Dastgeer, Usman; Kessler, Christoph	A performance-portable generic component for 2D convolution computations on GPU-based systems	Konferensbidrag		Proceedings of the Fifth International Workshop on Programmability Issues for Heterogeneous Multicores (MULTIPROG-2012) at the HiPEAC-2012 conference, Paris, Jan. 2012				2012
Unger, J , Kronander, J , Jonsson, D , Low, J , Ljung, P , Ynnerman, A ,	Efficient Visibility Encoding for Dynamic Illumination in Direct Volume Rendering	Article	IEEE TRANSACTIONS ON VISUALIZATION AND COMPUTER GRAPHICS		18	3	447-462	2012
Kozdon, JE , Dunham, EM , Nordstrom, J ,	Interaction of Waves with Frictional Interfaces Using Summation-by-Parts Difference Operators: Weak Enforcement of Nonlinear Boundary Conditions	Article	JOURNAL OF SCIENTIFIC COMPUTING		50	2	341-367	2012
Jakobsson, M , Linares, M , Stafstrom, S ,	Monte Carlo simulations of charge transport in organic systems with true off-diagonal disorder	Article	JOURNAL OF CHEMICAL PHYSICS		137	11	-	2012
Kozdon, Jeremy E.; Dunham, Eric M.; Nordström, Jan	Simulation of Dynamic Earthquake Ruptures in Complex Geometries Using High-Order Finite Difference Methods	Rapport						2012
Dieckmann, ME , Sarri, G , Murphy, GC , Bret, A , Romagnani, L , Kourakis, I , Borghesi, M , Ynnerman, A , Drury, LO ,	PIC simulation of a thermal anisotropy-driven Weibel instability in a circular rarefaction wave	Article	NEW JOURNAL OF PHYSICS		14		-	2012
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Kessler, C , Lowe, W ,	Optimized composition of performance-aware parallel components	Article	CONCURRENCY AND COMPUTATION-PRACTICE & EXPERIENCE		24	5	481-498	2012
Sengupta, PP , Pedrizzetti, G , Kilner, PJ , Kheradvar, A , Ebbers, T , Tonti, G , Fraser, AG , Narula, J ,	Emerging Trends in CV Flow Visualization	Article	JACC-CARDIOVASCULAR IMAGING		5	3	305-316	2012
Dyverfeldt, P , Ebbers, T , Shadden, SC , Arzani, A ,	In Vivo Validation of Numerical Prediction for Turbulence Intensity in an Aortic Coarctation	Article	ANNALS OF BIOMEDICAL ENGINEERING		40	4	860-870	2012
Jönsson, Daniel; Ganestam, Per; Doggett, Michael; Ynnerman, Anders; Ropinski, Timo	Explicit Cache Management for Volume Ray-Casting on Parallel Architectures	Konferensbidrag		Eurographics Symposium on Parallel Graphics and Visualization (2012)			31-40	2012
Jönsson, Daniel; Sundén, Erik; Ynnerman, Anders; Ropinski, Timo	State of The Art Report on Interactive Volume Rendering with Volumetric Illumination	Konferensbidrag		Eurographics 2012			53-74	2012
Nordstrom, J , Eriksson, S , Eliasson, P ,	Weak and strong wall boundary procedures and convergence to steady-state of the Navier-Stokes equations	Article	JOURNAL OF COMPUTATIONAL PHYSICS		231	14	4867-4884	2012
Nordström, Jan; Lundquist, Tomas	Summation-By-Parts Operators for Time Discretisation : Initial Investigations	Rapport						2012
Petersson, S , Dyverfeldt, P , Ebbers, T ,	Assessment of the accuracy of MRI wall shear stress estimation using numerical simulations	Article	JOURNAL OF MAGNETIC RESONANCE IMAGING		36	1	128-138	2012
Amsallem, David; Nordström, Jan	High-order accurate difference schemes for the Hodgkin-Huxley equations	Rapport						2012
Nordstrom, J , Lonn, B ,	Energy decay of vortices in viscous fluids: an applied mathematics view	Article	JOURNAL OF FLUID MECHANICS		709		593-609	2012
Berg, J , Nordstrom, J ,	Superconvergent functional output for time-dependent problems using finite differences on summation-by-parts form	Article	JOURNAL OF COMPUTATIONAL PHYSICS		231	20	6846-6860	2012
Berg, J , Nordstrom, J ,	Spectral analysis of the continuous and discretized heat and advection equation on single and multiple domains	Article	APPLIED NUMERICAL MATHEMATICS		62	11	1620-1638	2012
O'Reilly, Ossian; Dunham, Eric M.; Kozdon, Jeremy E.; Nordström, Jan	Earthquake Rupture Dynamics in Complex Geometries using Coupled Summation-By-Parts High-order Finite Difference Methods and Node-Centered Finite Volume Methods	Konferensbidrag		2012 SCEC Annual Meeting, September 9-12, Palm Springs, California, USA				2012
Kessler, C , Eriksson, M ,	Integrated Code Generation for Loops	Article	ACM TRANSACTIONS ON EMBEDDED COMPUTING SYSTEMS		11	1	-	2012
Berg, Jens; Nordström, Jan	A stable and dual consistent boundary treatment using finite differences on summation-by-parts form	Konferensbidrag		(ECCOMAS 2012) J. Eberhardsteiner et.al. (eds.) Vienna, Austria, September 10-14, 2012				2012
Carlsson, Jonas; Persson, Bengt	Investigating protein variants using structural calculation techniques	Kapitel i bok, del av antologi	Homology Modeling : Methods and Protocols		857		313-330	2012
Ropinski, T , Diepenbrock, S , Bruckner, S , Hinrichs, K , Groller, E ,	Unified Boundary-Aware Texturing for Interactive Volume Rendering	Article	IEEE TRANSACTIONS ON VISUALIZATION AND COMPUTER GRAPHICS		18	11	1942-1955	2012
Freire, Sergio Miranda; Sundvall, Erik; Karlsson, Daniel; Lambrix, Patrick	Performance of XML Databases for Epidemiological Queries in Archetype-Based EHRs	Konferensbidrag		Scandinavian Conference on Health Informatics 2012, October 2-3, Linköping, Sweden			51-57	2012
Lantz, Jonas; Ebbers, Tino; Engvall, Jan; Karlsson, Matts	Large Eddy Simulation of Aortic Coarctation Before and After Surgery	Konferensbidrag		Artery 12, 18-20 October 2012, Vienna, Austria				2012
Nieto-Ortega, B , Ramirez, FJ , Amabilino, DB , Linares, M , Beljonne, D , Navarrete, JTL , Casado, J ,	Electronic and vibrational circular dichroism spectroscopies for the understanding of chiral organization in porphyrin aggregates	Article	CHEMICAL COMMUNICATIONS		48	73	9147-9149	2012
Sigfridsson, A , Petersson, S , Carlhall, CJ , Ebbers, T ,	Four-dimensional flow MRI using spiral acquisition	Article	MAGNETIC RESONANCE IN MEDICINE		68	4	1065-1073	2012

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Lantz, Jonas; Ebbers, Tino; Karlsson, Matts	Quantifying Turbulent Kinetic Energy in an Aortic Coarctation with Large Eddy Simulation and Magnetic Resonance Imaging	Konferensbidrag		65th Annual Meeting of the APS Division of Fluid Dynamics (DFD 2012), 18-20 November 2012, San Diego, CA, USA				2012
Ivanova, Valentina; Lambrix, Patrick	A System for Debugging Taxonomies and their Alignments	Konferensbidrag	Proceedings of First Intern	First International Workshop on Debugging Ontologies and Ontology Mappings			37-42	2012
Ivanova, Valentina; Laurila Bergman, Jonas; Hammerling, Ulf; Lambrix, Patrick	Debugging Taxonomies and their Alignments: the ToxOntology - MeSH Use Case	Konferensbidrag	Proceedings of the First Int	First International Workshop on Debugging Ontologies and Ontology Mappings, Galway, Ireland, October 8, 2012.			25-36	2012
Lambrix, Patrick; Qi, Guilin; Horridge, Matthew	Proceedings of the First International Workshop on Debugging Ontologies and Ontology Mappings	Proceedings (redaktörskap)		The First International Workshop on Debugging Ontologies and Ontology Mappings - WoDOOM12; Galway; Ireland; October 8; 2012				2012
Keller, J, Kessler, CW, Hulten, R,	Optimized On-Chip-Pipelining for Memory-Intensive Computations on Multi-Core Processors with Explicit Memory Hierarchy	Article	JOURNAL OF UNIVERSAL COMPUTER SCIENCE		18	14	1987-2023	2012
Lambrix, Patrick	Advances in Secure and Networked Information Systems – The ADIT Perspective : Festschrift in honor of professor NAHID SHAHMEHRI	Samlingsverk (redaktörskap)						2012
O'Reilly, Ossian; Dunham, Eric M.; Kozdon, Jeremy E.; Nordström, Jan	Earthquake Rupture dynamics in complex geometries using coupled high-order finite difference methods and finite volume methods	Konferensbidrag		AGU Fall Meeting, 3-7 December 2012, San Francisco, California			01-Jan	2012
Lambrix, Patrick; Ivanova, Valentina; Dragisic, Zlatan	Contributions of LiU/ADIT to Debugging Ontologies and Ontology Mappings	Kapitel i bok, del av antologi		Advances in secure and networked information systems : the ADIT perspective ; F 109-120				2012
Lambrix, Patrick; Kaliyaperumal, Rajaram	Contributions of LiU/ADIT to Ontology Alignment	Kapitel i bok, del av antologi		Advances in secure and networked information systems : the ADIT perspective ; F 97-108				2012
Bock, A, Sunden, E, Liu, BC, Wunsche, B, Ropinski, T,	Coherency-Based Curve Compression for High-Order Finite Element Model Visualization	Article	IEEE TRANSACTIONS ON VISUALIZATION AND COMPUTER GRAPHICS		18	12	2315-2324	2012
Renner, Johan; Lantz, Jonas; Ebbers, Tino; Länne, Toste; Karlsson, Matts	Altered WSS in the human aorta with age – implications for wall remodeling and lesions?	Konferensbidrag		ARTERY '12, Wien, Austria, 18-20 October 2012				2012
Melot, N, Kessler, C, Avdic, K, Cichowski, P, Keller, J,	Engineering parallel sorting for the Intel SCC	Proceedings Paper	PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON COMPUTATIONAL SCIENCE, ICCS 2012		9		1890-1899	2012
Lambrix, Patrick; Dragisic, Zlatan; Ivanova, Valentina	Get my pizza right: Repairing missing is-a relations in ALC ontologies	Konferensbidrag	Second Joint International	Joint International Semantic Technology Conference			17-32	2012
Kessler, Christoph; Dastgeer, Usman; Thibault, Samuel; Namyst, Raymond; Richards, Andrew; Dolinsky, Uwe; Benkner, Siegfried; Träff, Jesper; Pllana, Sabri	Programmability and Performance Portability Aspects of Heterogeneous Multi-/Manycore Systems	Konferensbidrag		DATE-2012 conference on Design, Automation and Test in Europe, 12-16 March 2012, Dresden, Germany			1403-1408	2012
Dastgeer, Usman; Kessler, Christoph; Thibault, Samuel	Flexible runtime support for efficient skeleton programming on hybrid systems	Kapitel i bok, del av antologi		Applications, Tools and Techniques on the Road to Exascale Computing			159-166	2012
Dastgeer, Usman; Li, Lu; Kessler, Christoph	The PEPPHER Composition Tool: Performance-Aware Dynamic Composition of Applications for GPU-Based Systems	Konferensbidrag	High Performance Comput	5th International Workshop on Multi-Core Computing Systems (MuCoCoS) in conjunction with Supercomputing Conference (SC 2012), 10-16 November 2012, Salt Lake City, UT, USA			711-720	2012
Kessler, Christoph; Hansson, Erik	Flexible scheduling and thread allocation for synchronous parallel tasks	Konferensbidrag	ARCS-2012 Workshops	10th Workshop on Parallel Systems and Algorithms (PASA 2012), Munich, Germany, February 29, 2012			517-528	2012
Mäkelä, Jari-Matti; Hansson, Erik; Åkesson, Daniel; Forsell, Martti; Kessler, Christoph; Leppänen, Ville	Design of the Language Replica for Hybrid PRAM-NUMA Many-core Architectures	Konferensbidrag	Parallel and Distributed Pr	10th IEEE International Symposium on Parallel and Distributed Processing with Applications (ISPA 2012), Leganes, Madrid, Spain, July 10-13, 2012			697-704	2012
Kessler, Martin; Hansson, Erik; Åkesson, Daniel; Kessler, Christoph	Exploiting Instruction Level Parallelism for REPLICA - A Configurable VLIW Architecture With Chained Functional Units	Konferensbidrag	: Volume II	International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'12), 16-19 July 2012, Las Vegas, Nevada, USA			275-281	2012
Nguyen, Khoa; Bock, Alexander; Ynnerman, Anders; Ropinski, Timo	Deriving and Visualizing Uncertainty in Kinetic PET Modeling	Konferensbidrag	Eurographics Workshop or	The third Eurographics Workshop on Visual Computing for Biology and Medicine (VCBM 2012), 27-28 September 2012, Norrköping, Sweden			107-114	2012
Liu, Bingchen; Bock, Alexander; Ropinski, Timo; Nash, Martyn; Nielsen, Poul; Wünsche, Burkhard	GPU-Accelerated Direct Volume Rendering of Finite Element Data Sets	Konferensbidrag		27th International Conference on Image and Vision Computing New Zealand (IVCNZ 2012) 26-28 November 2012, Dunedin, New Zealand			109-114	2012
Törnros, Martin; Berrios, David; Bock, Alexander; Emmart, Carter; Harberts, Robert; Ynnerman, Anders	Interactive Visualization of Space Weather Data	Konferensbidrag		American Geophysical Union, Fall Meeting, 3-7 December 2012, San Francisco, USA				2012
Birkeland, Åsmund; Solteszova, Veronika; Hönigmann, Dieter; Helge Gilja, Odd; Brekke, Svein; Ropinski, Timo; Viola, Ivan	The Ultrasound Visualization Pipeline - A Survey	Övrigt						2012
Diepenbrock, Stefan; Ropinski, Timo	From Imprecise User Input to Precise Vessel Segmentations	Konferensbidrag	Eurographics Workshop or	Eurographics Workshop on Visual Computing for Biology and Medicine (VCBM 2012), Norrköping, Sweden, September 27-28, 2012			65-72	2012
Cichowski, Patrick; Keller, Jörg; Kessler, Christoph	Modelling Power Consumption of the Intel SCC	Konferensbidrag	Proceedings of the 6th Mar	6th Many-core Applications Research Community (MARC) Symposium, 19-20 July 2012, Toulouse, France				2012
Brenner, J, Keller, J, Kessler, C,	Executing PRAM Programs on GPUs	Proceedings Paper	PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON COMPUTATIONAL SCIENCE, ICCS 2012		9		1799-1806	2012
Keller, Jörg; Majeed, Mudassar; Kessler, Christoph	Balancing CPU Load for Irregular MPI Applications	Konferensbidrag	Advances in Parallel Comp	International Conference on Parallel Computing (ParCo-2011), 30 August - 2 September 2011, Ghent, Belgium			307-316	2012
Melot, Nicolas; Kessler, Christoph; Keller, Jörg	Efficient On-Chip Pipelined Streaming Computations on Scalable Manycore Architectures	Konferensbidrag		Eighth International Summer School on Advanced Computer Architecture and Compilation for High-Performance and Embedded Systems, 8-14 july, Fiuggi, Italy				2012
Ali, Akhtar; Dastgeer, Usman; Kessler, Christoph	OpenCL for programming shared memory multicore CPUs	Konferensbidrag	Proceedings of the 5th Wo	Fifth Workshop on Programmability Issues for Heterogeneous Multicores (MULTIPROG-2012) at HiPEAC-2012, 23 January, Paris, France				2012

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Ernvik, Aron; Bergström, Staffan; Lundström, Claes; Ljung, Patric; Ynnerman, Anders	Image data set compression based on viewing parameters for storing medical image data from multidimensional data sets, related systems, methods and computer products	Patent					2012
Bock, Alexander; Lang, Norbert; Evangelista, Gianpaolo; Lehrke, Ralph; Ropinski, Timo	Supporting Deep Brain Stimulation Interventions by Fusing Microelectrode Recordings with Imaging Data	Konferensbidrag	Visual Computing for Biology and Medicine				2012
Lysholm, F , Wetterbom, A , Lindau, C , Darban, H , Bjerkner, A , Fahlander, K , Lindberg, AM , Persson, B , Allander, T , Andersson, B ,	Characterization of the Viral Microbiome in Patients with Severe Lower Respiratory Tract Infections, Using Metagenomic Sequencing	Article	PLOS ONE	7	2	-	2012
Melkersson, K , Persson, B ,	Evidence for a negative association between schizophrenia and a polymorphism in the insulin receptor substrate-3 (IRS-3) gene	Article	NEUROENDOCRINOLOGY LETTERS	33	3	321-330	2012
Kallberg, Y , Segerstolpe, A , Lackmann, F , Persson, B , Wieslander, L ,	Evolutionary Conservation of the Ribosomal Biogenesis Factor Rbm19/Mrd1: Implications for Function	Article	PLOS ONE	7	9	-	2012
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Moummou, H , Kallberg, Y , Tonfack, LB , Persson, B , van der Rest, B ,	The Plant Short-Chain Dehydrogenase (SDR) superfamily: genome-wide inventory and diversification patterns	Article	BMC PLANT BIOLOGY	12		-	2012
Kindberg, K , Haraldsson, H , Sigfridsson, A , Sakuma, H , Ebbers, T , Karlsson, M ,	Temporal 3D Lagrangian strain from 2D slice-followed cine DENSE MRI	Article	CLINICAL PHYSIOLOGY AND FUNCTIONAL IMAGING	32	2	139-144	2012
Vahlberg, C , Linares, M , Norman, P , Uvdal, K ,	Phenylboronic Ester- and Phenylboronic Acid-Terminated Alkanethiols on Gold Surfaces	Article	JOURNAL OF PHYSICAL CHEMISTRY C	116	1	796-806	2012
Lundstrom, C , Persson, A , Ross, S , Ljung, P , Lindholm, S , Gyllensvard, F , Ynnerman, A ,	State-of-the-art of visualization in post-mortem imaging	Review	APMIS	120	4	316-326	2012
Ahren, M , Selegard, L , Soderlind, F , Linares, M , Kauczor, J , Norman, P , Kall, PO , Uvdal, K ,	A simple polyol-free synthesis route to Gd2O3 nanoparticles for MRI applications: an experimental and theoretical study	Article	JOURNAL OF NANOPARTICLE RESEARCH	14	8	-	2012
Jonsson, D , Kronander, J , Ropinski, T , Ynnerman, A ,	Historygrams: Enabling Interactive Global Illumination in Direct Volume Rendering using Photon Mapping	Article	IEEE TRANSACTIONS ON VISUALIZATION AND COMPUTER GRAPHICS	18	12	2364-2371	2012
Kindberg, K , Haraldsson, H , Sigfridsson, A , Engvall, J , Ingels, NB , Ebbers, T , Karlsson, M ,	Myocardial strains from 3D displacement encoded magnetic resonance imaging	Article	BMC MEDICAL IMAGING	12		-	2012
Bjorck, HM , Renner, J , Maleki, S , Nilsson, SFE , Kihlberg, J , Folkersen, L , Karlsson, M , Ebbers, T , Eriksson, P , Lanne, T ,	Characterization of Shear-Sensitive Genes in the Normal Rat Aorta Identifies Hand2 as a Major Flow-Responsive Transcription Factor	Article	PLOS ONE	7	12	-	2012
Hanley, J , Caballero, R ,	Objective identification and tracking of multicentre cyclones in the ERA-Interim reanalysis dataset	Article	QUARTERLY JOURNAL OF THE ROYAL METEOROLOGICAL SOCIETY	138	664	612-625	2012
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Bengtsson, L , Tijm, S , Vana, F , Svensson, G ,	Impact of Flow-Dependent Horizontal Diffusion on Resolved Convection in AROME	Article	JOURNAL OF APPLIED METEOROLOGY AND CLIMATOLOGY	51	1	54-67	2012
Sahlin, K , Street, N , Lundeberg, J , Arvestad, L ,	Improved gap size estimation for scaffolding algorithms	Article	BIOINFORMATICS	28	17	2215-2222	2012
Liberles, DA , Teichmann, SA , Bahar, I , Bastolla, U , Bloom, J , Bornberg-Bauer, E , Colwell, LJ , de Koning, APJ , Dokholyan, NV , Echave, J , et al	The interface of protein structure, protein biophysics, and molecular evolution	Review	PROTEIN SCIENCE	21	6	769-785	2012
Vatalis, KI , Laaksonen, A , Charalampides, G , Benetis, NP ,	Intermediate technologies towards low-carbon economy. The Greek zeolite CCS outlook into the EU commitments	Review	RENEWABLE & SUSTAINABLE ENERGY REVIEWS	16	5	3391-3400	2012
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Zhu, LL , Li, X , Wu, SJ , Nguyen, KT , Yan, H , Agren, H , Zhao, YL ,	Chirality Control for in Situ Preparation of Gold Nanoparticle Superstructures Directed by a Coordinatable Organogelator	Article	JOURNAL OF THE AMERICAN CHEMICAL SOCIETY	135	24	9174-9180	2013
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Potts, AW , Holland, DMP , Powis, I , Karlsson, L , Trofimov, AB , Bodzuk, IL ,	A study of the valence shell electronic structure and photoionisation dynamics of meta-dichlorobenzene and meta-bromochlorobenzene	Article	CHEMICAL PHYSICS	415		84-97	2013
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Schreiber, F , Sonnhammer, ELL ,	Hieranoid: Hierarchical Ortholog Inference	Article	JOURNAL OF MOLECULAR BIOLOGY	425	11	2072-2081	2013
Amole, C , Ashkezari, MD , Baquero-Ruiz, M , Bertsche, W , Butler, E , Capra, A , Cesar, CL , Chapman, S , Charlton, M , Eriksson, S , et al	Autoresonant-spectrometric determination of the residual gas composition in the ALPHA experiment apparatus	Article	REVIEW OF SCIENTIFIC INSTRUMENTS	84	6	-	2013
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Croze, OA , Sardina, G , Ahmed, M , Bees, MA , Brandt, L ,	Dispersion of swimming algae in laminar and turbulent channel flows: consequences for photobioreactors	Article	JOURNAL OF THE ROYAL SOCIETY INTERFACE	10	81	-	2013
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Sergueev, I , Dubrovinsky, L , Ekholm, M , Vekilova, OY , Chumakov, AI , Zajac, M , Potapkin, V , Kantor, I , Bornemann, S , Ebert, H , et al	Hyperfine Splitting and Room-Temperature Ferromagnetism of Ni at Multimegabar Pressure	Article	PHYSICAL REVIEW LETTERS	111	15	-	2013
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Juneja, A , Ito, M , Nilsson, L ,	Implicit Solvent Models and Stabilizing Effects of Mutations and Ligands on the Unfolding of the Amyloid beta-Peptide Central Helix	Article	JOURNAL OF CHEMICAL THEORY AND COMPUTATION	9	1	834-846	2013
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Wijnans, L , Lecomte, C , de Vries, C , Weibel, D , Sammon, C , Hviid, A , Svanstrom, H , Molgaard-Nielsen, D , Heijbel, H , Dahlstrom, LA , et al	The incidence of narcolepsy in Europe: Before, during, and after the influenza A(H1N1)pdm09 pandemic and vaccination campaigns	Article	VACCINE	31	8	1246 -1254	2013
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Hoiom, V , Edsgard, D , Helgadottir, H , Eriksson, H , All-Ericsson, C , Tuominen, R , Ivanova, I , Lundeberg, J , Emanuelsson, O , Hansson, J ,	Hereditary uveal melanoma: A report of a germline mutation in BAP1	Article	GENES CHROMOSOMES & CANCER		52	4	378-384	2013
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Nordström, Jan; Abbas, Qaisar; A. Erickson, Brittany; Frenander, Hannes	A Flexible Far Field Boundary Procedure for Hyperbolic Problems: Multiple Penalty Terms Applied in a Domain	Rapport						2013
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Lambrix, Patrick; Qi, Guilin; Horridge, Matthew; Parsia, Bijan	Proceedings of the Second International Workshop on Debugging Ontologies and Ontology Mappings - WoDOOM13	Proceedings (redaktörskap)			Second International Workshop on Debugging Ontologies and Ontology Mappings - WoDOOM13, Montpellier, France, May 27, 2013				2013
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Lundquist, Tomas; Nordström, Jan	The SBP-SAT Technique for Time-Discretization	Konferensbidrag		AIAA Aerospace Sciences –	21st AIAA Computational Fluid Dynamics Conference 24 - 27 June 2013 San Diego, California			08-Jan	2013
Frenander, Hannes; Nordström, Jan	Increasing the convergence rate to steady-state by using multiple penalty terms applied in a domain	Konferensbidrag		AIAA Aerospace Sciences - F	21st AIAA Computational Fluid Dynamics Conference 24 - 27 June 2013 San Diego, California			09-Jan	2013
Nikkar, Samira; Nordström, Jan	Energy Stable High Order Finite Difference Methods for Hyperbolic Equations in Moving Coordinate Systems	Konferensbidrag		AIAA Aerospace Sciences - F	21st AIAA Computational Fluid Dynamics Conference 24 - 27 June 2013 San Diego, California			14-Jan	2013
Berg, Jens; Nordström, Jan	Duality based boundary treatment for the Euler and Navier-Stokes equations	Konferensbidrag		AIAA Aerospace Sciences - F	21st AIAA Computational Fluid Dynamics Conference, San Diego, CA, USA, 2013			19-Jan	2013
Eriksson, Sofia; Nordström, Jan	Well-posedness and Stability of Exact Non-reflecting Boundary Conditions	Konferensbidrag		AIAA Aerospace Sciences - F	21st AIAA Computational Fluid Dynamics Conference 24 - 27 June 2013 San Diego, California			18-Jan	2013
Eliasson, Peter; Nordström, Jan	The Influence of Viscous Operator and Wall Boundary Conditions on the Accuracy of the Navier-Stokes Equations	Konferensbidrag		AIAA Aerospace Sciences - F	21st AIAA Computational Fluid Dynamics Conference 24 - 27 June 2013 San Diego, California			15-Jan	2013
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Fahleson, T , Kauczor, J , Norman, P , Coriani, S ,	The magnetic circular dichroism spectrum of the C-60 fullerene	Article	MOLECULAR PHYSICS			111	11-Sep	1401-1404	2013
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O'Reilly, Ossian; Nordström, Jan; Kozdon, Jeremy E.; Dunham, Eric M.	Simulation of Earthquake Rupture Dynamics in Complex Geometries Using Coupled Finite Difference and Finite Volume Methods	Rapport							2013
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Unger, Jonas; Ropinski, Timo	Proceedings of SIGRAD 2013, Visual Computing, June 13-14, 2013, Norrköping, Sweden	Proceedings (redaktörskap)							2013
Svärd, Magnus; Nordström, Jan	REVIEW OF SUMMATION-BY-PARTS SCHEMES FOR INITIAL-BOUNDARY-VALUE PROBLEMS	Rapport							2013
Lundquist, Tomas; Nordström, Jan	The SBP-SAT Technique for Initial Value Problems	Rapport							2013
Cuenca Grau, Bernardo; Dragisic, Zlatan; Eckert, Kai; Euzenat, Jerome; Ferrara, Alfio; Granada, Roger; Ivanova, Valentina; Jimenez-Ruiz, Ernesto; Kempf, Oscar Alexander; Lambrix, Patrick; Nikolov, Andriy; Paulheim, Heiko; Ritze, Dominique; Scharffe, Francois; Shvaiko, Pavel; Trojahn, Cassia; Zamazal, Ondrej	Results of the Ontology Alignment Evaluation Initiative 2013	Konferensbidrag		International Workshop or	8th International Workshop on Ontology Matching (OM-2013), 21 October 2013, Sydney, Australia			61-100	2013
Cichowski, Patrick; Keller, Jörg; Kessler, Christoph	Energy-efficient Mapping of Task Collections onto Manycore Processors	Konferensbidrag		Proceedings of MULTIPRO(	MULTIPROG'13 workshop at HiPEAC'13, Berlin, Germany, 21 January 2013				2013
Majeed, Mudassar; Dastgeer, Usman; Kessler, Christoph	Cluster-SkePU: A Multi-Backend Skeleton Programming Library for GPU Clusters	Konferensbidrag		Proceedings of the Interna	International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA-2013), Las Vegas, USA, July 2013				2013
Dastgeer, Usman; Li, Lu; Kessler, Christoph	Adaptive Implementation Selection in the SkePU Skeleton Programming Library	Konferensbidrag		Advanced Parallel Processi	Advanced Parallel Processing Technologies, Stockholm, August 2013			170-183	2013
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Kessler, Christoph; Eitschberger, Patrick; Keller, Jörg	Energy-Efficient Static Scheduling of Streaming Task Collections with Malleable Tasks	Konferensbidrag		Proc. 25th PARS-Workshop	25th PARS Workshop, Erlangen, Germany, 11-12 April 2013			37-46	2013
Kessler, Christoph; Dastgeer, Usman; Majeed, Mudassar; Furmento, Nathalie; Thibault, Samuel; Namyst, Raymond; Benkner, Siegfried; Pllana, Sabri; Träff, Jesper; Wimmer, Martin	Leveraging PEPPHER Technology for Performance Portable Supercomputing	Konferensbidrag		High Performance Comput	Supercomputing 2012 (SC12), Salt Lake City, Utah, USA, 10-16 November 2012			1395-1396	2013
Kessler, Christoph; Pllana, Sabri	Proceedings of the 2013 IEEE 6th International Workshop on Multi-/Many-core Computing Systems (MuCoCoS-2013)	Proceedings (redaktörskap)			2013 IEEE 6th International Workshop on Multi-/Many-core Computing Systems (MuCoCoS-2013), Edinburgh, UK, 7 sep 2013				2013

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Kessler, Christoph	Compiling for VLIW DSPs	Kapitel i bok, del av antologi	Handbook of signal processing systems				1177-1214	2013
Unger, Jonas; Kronander, Joel; Larsson, Per; Gustavson, Stefan; Ynnerman, Anders	Image Based Lighting using HDR-video	Konferensbidrag		Eurographics 24th Sympos 24th Eurographics Symposium on Rendering, 19-21 June 2013, Zaragoza, Spain				2013
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Tan Nguyen, Khoa; Ropinski, Timo	Feature Tracking in Time-Varying Volumetric Data through Scale Invariant Feature Transform	Konferensbidrag		Proceedings of SIGRAD 20 SIGRAD Conference on Visual Computing, June 13-14, 2013, Norrköping, Sweden			16-Nov	2013
Dastgeer, U, Kessler, C,	A Framework for Performance-aware Composition of Applications for GPU-based Systems	Proceedings Paper	2013 42ND ANNUAL INTERNATIONAL CONFERENCE ON PARALLEL PROCESSING (ICPP)				698-707	2013
Angelakis, Vangelis; Gundlegård, David; Rydergren, Clas; Rajna, Botond; Vrotsou, Katerina; Carlsson, Richard; Forgeat, Julien; Hu, Tracy H; Liu, Evan L; Moritz, Simon; Zhao, Sky; Zheng, Yaotian	Mobility modeling for transport efficiency : Analysis of travel characteristics based on mobile phone data	Konferensbidrag		Netmob 2013 : Mobile ph Netmob 2013 - Third International Conference on the Analysis of Mobile Phone Datasets, May 1-3, 2013, MIT, Cambridge, MA, USA				2013
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Netzer, Gilbert; Johnsson, Lennart; Ahlin, Daniel; Stotzer, Eric; Varis, Pekka; Laure, Erwin	Exploiting DMA for Performance and Energy Optimized STREAM on a DSP	Konferensbidrag		IPDPSW -™14 : Proceeding 2014 IEEE International Parallel Distributed Processing Symposium Workshops			805-814	2014
Netzer, Gilbert; Johnsson, Lennart; Ahlin, Daniel; Laure, Erwin	Instrumentation for accurate energy-to-solution measurements of a texas instruments TMS320C6678 digital signal processor and its DDR3 memory	Konferensbidrag		E2SC -™14 : Proceedings of 2nd International Workshop on Energy Efficient Supercomputing			89-98	2014

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Aguilar, Xavier; Fürlinger, Karl; Laure, Erwin	MPI Trace Compression Using Event Flow Graphs	Konferensbidrag		Euro-Par 2014 Parallel Processing			12-Jan	2014
Tully, Philip; University of Edinburgh); Hennig, Matthias; Lansner, Anders; Stockholm University)	Synaptic and nonsynaptic plasticity approximating probabilistic inference	Artikel i tidskrift	Frontiers in Synaptic Neuroscience		6	APR		2014
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Romero, Mario; Thuresson, Björn; Peters, Christopher; Kis, Filip; Coppard, J.; Andrée, Jenny; Landázuri, N.	Augmenting PBL with large public presentations : A case study in interactive graphics pedagogy	Konferensbidrag		ITICSE 2014 - Proceedings 2014 Innovation and Technology in Computer Science Education Conference, ITICSE 2014, 21 June 2014 through 25 June 2014, Uppsala			15-20	2014
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Gómez, Paula; Do, Ellen Yi-Luen; Romero, Mario	Activity Shapes : towards a spatiotemporal analysis in architecture	Artikel i tidskrift	DEARQ: Journal of Architecture			26		2014
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Parviainen, Pekka; Farahani, H. S.; Lagergren, Jens	Learning bounded tree-width Bayesian networks using integer linear programming	Artikel i tidskrift	Journal of machine learning research	22 April 2014 through 25 April 2014	33		751-759	2014
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Marin, O , Runborg, O , Tornberg, AK ,	Corrected trapezoidal rules for a class of singular functions	Article	IMA JOURNAL OF NUMERICAL ANALYSIS		34	4	1509-1540	2014
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Nordström, Jan; Wahlsten, Markus	Variance reduction through robust design of boundary conditions for stochastic hyperbolic systems of equations	Rapport						2014
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Forsberg, D , Lundstrom, C , Knutsson, H ,	Eigenspine: Computing the correlation between measures describing vertebral pose for patients with adolescent idiopathic scoliosis	Article	COMPUTERIZED MEDICAL IMAGING AND GRAPHICS		38	7	549 -557	2014
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Lambrix, Patrick	Semantic Web, Ontologies and Linked Data	Kapitel i bok, del av antologi		Comprehensive Biomedical Physics : Volume 6: Bioinformatics			67-76	2014
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Dragisic, Zlatan; Eckert, Kai; Euzenat, Jerome; Faria, Daniel; Ferrara, Alfio; Granada, Roger; Ivanova, Valentina; Jimenez-Ruiz, Ernesto; Kempf, Andreas; Lambrix, Patrick; Montanelli, Stefano; Paulheim, Heiko; Ritze, Dominique; Shvaiko, Pavel; Solimando, Alessandro; Trojahn, Cassia; Zamazal, Ondrej; Cuenca Grau, Bernardo	Results of the Ontology Alignment Evaluation Initiative 2014	Konferensbidrag		International Workshop or International Workshop on Ontology Matching			61-104	2014
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Melot, N , Kessler, C , Keller, J , Eitschberger, P ,	Fast Crown Scheduling Heuristics for Energy-Efficient Mapping and Scaling of Moldable Streaming Tasks on Manycore Systems	Article	ACM TRANSACTIONS ON ARCHITECTURE AND CODE OPTIMIZATION			11	4	-	2014
Kessler, Christoph; Dastgeer, Usman; Li, Lu	Optimized Composition: Generating Efficient Code for Heterogeneous Systems from Multi-Variant Components, Skeletons and Containers	Konferensbidrag		Proc. First Workshop on Re	First Workshop on Resource awareness and adaptivity in multi-core computing (Racing 2014), May 2014, Paderborn, Germany			43-48	2014
Dastgeer, Usman; Kessler, Christoph	Conditional component composition for GPU-based systems	Konferensbidrag		Proc. Seventh Workshop o	Proc. Seventh Workshop on Programmability Issues for Multi-Core Computers (MULTIPROG-2014) at HiPEAC-2014 Conference, Vienna, Austria, Jan. 2014				2014
Hansson, Erik; Alnervik, Erik; Kessler, Christoph; Forsell, Martti	A Quantitative Comparison of PRAM based Emulated Shared Memory Architectures to Current Multicore CPUs and GPUs	Konferensbidrag		27th International Confere	27th International Conference on Architecture of Computing Systems (ARCS) 2014, PASA-2014 11th Workshop on Parallel Systems and Algorithms, Lübeck, Germany, Feb. 2014			27-33	2014
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Bock, Alexander; Kleiner, Alexander; Lundberg, Jonas; Ropinski, Timo	Supporting Urban Search & Rescue Mission Planning through Visualization-Based Analysis	Konferensbidrag		Proceedings of the Vision,	Vision, Modeling, and Visualization				2014
Li, Lu; Dastgeer, Usman; Kessler, Christoph	Pruning strategies in adaptive off-line tuning for optimized composition of components on heterogeneous systems	Konferensbidrag		2014 43rd International C	Seventh International Workshop on Parallel Programming Models and Systems Software for High-End Computing (P2S2) at 43rd International Conference of Parallel Processing (ICPP), Minneapolis, USA, 9-12 Sep. 2014			255-264	2014
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Svensson, I , Falth, L , Persson, B ,	Reading level and the prevalence of a dyslexic profile among patients in a forensic psychiatric clinic	Article	JOURNAL OF FORENSIC PSYCHIATRY & PSYCHOLOGY	26	4	532 -550	2015
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Lenaers, Peter; Schlatter, Philipp; Brethouwer, Gert; Johansson, Arne	A new high-order method for the accurate simulation of incompressible wall-bounded flows	Konferensbidrag	9th International Conferer 3 April 2013 through 5 April 2013			133-138	2015

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Abraham, Mark James; Murtola, T.; Schulz, R.; Páll, Szilárd; Smith, J. C.; Hess, Berk; Lindahl, Erik	Gromacs : High performance molecular simulations through multi-level parallelism from laptops to supercomputers	Artikel i tidskrift	SoftwareX		02-Jan		19-25	2015
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Belic, Jovana; Halje, Pär; Richter, Ulrike; Petersson, Per; Hellgren Kotaleski, Jeanette	Corticostriatal circuits and their role in disease	Artikel i tidskrift	Frontiers in Neuroscience	Neuroinformatics 2015, Cairns, Australia, 20 Aug - 22 Aug, 2015	8		31	2015
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Peng, IB , Vencels, J , Lapenta, G , Divin, A , Vaivads, A , Laure, E , Markidis, S ,	Energetic particles in magnetotail reconnection	Article	JOURNAL OF PLASMA PHYSICS	81		-	2015
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Bock, A , Marcinkowski, M , Kilby, J , Emmart, C , Ynnerman, A ,	OpenSpace: Public Dissemination of Space Mission Profiles	Proceedings Paper	2015 IEEE SCIENTIFIC VISUALIZATION CONFERENCE (SCIVIS)				141 -142	2015
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Busana, MC , De Stavola, BL , Sovio, U , Li, JM , Moss, S , Humphreys, K , dos-Santos-Silva, I ,	Assessing within-woman changes in mammographic density: a comparison of fully versus semi-automated area-based approaches	Article	CANCER CAUSES & CONTROL	27	4	481 -491	2016
Strand, F , Humphreys, K , Cheddad, A , Tornberg, S , Azavedo, E , Shepherd, J , Hall, P , Czene, K ,	Novel mammographic image features differentiate between interval and screen-detected breast cancer: a case-case study	Article	BREAST CANCER RESEARCH	10		-	2016
Seipel, AH , Samaratunga, H , Delahunt, B , Wiklund, P , Clements, M , Egevad, L ,	Immunohistochemistry of ductal adenocarcinoma of the prostate and adenocarcinomas of non-prostatic origin: a comparative study	Article	APMIS	124	4	263 -270	2016
Fornari, W , Picano, F , Sardina, G , Brandt, L ,	Reduced particle settling speed in turbulence	Article	JOURNAL OF FLUID MECHANICS	808		153 -167	2016
Dunning, AM , Michailidou, K , Kuchenbaecker, KB , Thompson, D , French, JD , Beesley, J , Healey, CS , Kar, S , Pooley, KA , Lopez-Knowles, E , et al	Breast cancer risk variants at 6q25 display different phenotype associations and regulate ESR1, RMND1 and CCDC170	Article	NATURE GENETICS	48	4	374 -+	2016
Casas, B , Lantz, J , Dyverfeldt, P , Ebbers, T ,	4D Flow MRI-Based Pressure Loss Estimation in Stenotic Flows: Evaluation Using Numerical Simulations	Article	MAGNETIC RESONANCE IN MEDICINE	75	4	1808 -1821	2016
Jiang, XX , Andersson, M , Chau, BT , Wong, LY , Villafuerte, MKR , Kaback, HR ,	Role of Conserved Gly-Gly Pairs on the Periplasmic Side of LacY	Article	BIOCHEMISTRY	55	31	4326 -4332	2016
Koitsalu, M , Sprangers, MAG , Eklund, M , Czene, K , Hall, P , Gronberg, H , Brandberg, Y ,	Public interest in and acceptability of the prospect of risk-stratified screening for breast and prostate cancer	Article	ACTA ONCOLOGICA	55	1	45 -51	2016
Fornari, W , Formenti, A , Picano, F , Brandt, L ,	The effect of particle density in turbulent channel flow laden with finite size particles in semi-dilute conditions	Article	PHYSICS OF FLUIDS	28	3	-	2016
Spjuth, O , Krestyaninova, M , Hastings, J , Shen, HY , Heikkinen, J , Waldenberger, M , Langhammer, A , Ladenvall, C , Esko, T , Persson, MA , et al	Harmonising and linking biomedical and clinical data across disparate data archives to enable integrative cross-biobank research	Article	EUROPEAN JOURNAL OF HUMAN GENETICS	24	4	521 -528	2016
Palmas, Gregorio; Weinkauf, Tino	Space Bundling for Continuous Parallel Coordinates	Konferensbidrag		Eurographics Proceedings EuroVis 2016, June 2016, Groningen, the Netherlands			2016
Lenaers, Peter; Schlatter, Philipp; Brethouwer, Gert; Johansson, Arne V.	A new high-order method for simulating turbulent pipe flow	Konferensbidrag		Springer Proceedings in Ph 6th International Conference on Progress in Turbulence, iTi 2014, 29 August 2014 through 29 August 2014		211-215	2016
Talamelli, A.; Malizia, F.; Örlü, Ramis; Cimarelli, A.; Schlatter, Philipp	Temperature effects in hot-wire measurements on higher-order moments in wall turbulence	Konferensbidrag		Springer Proceedings in Ph 6th International Conference on Progress in Turbulence, iTi 2014, 29 August 2014 through 29 August 2014		185-189	2016
Skote, Martin; Mishra, M.; Negi, P. S.; Wu, Y.; Lee, H. M.; Schlatter, Philipp	Wall oscillation induced drag reduction of turbulent boundary layers	Konferensbidrag		Springer Proceedings in Ph 6th International Conference on Progress in Turbulence, iTi 2014, 29 August 2014 through 29 August 2014		161-165	2016
Aguilar, Xavier; Fürlinger, K.; Laure, Erwin	Online MPI trace compression using event flow graphs and wavelets	Konferensbidrag		Procedia Computer Scienc International Conference on Computational Science, ICCS 2016, 6 June 2016 through 8 June 2016		1497-1506	2016
Vinuesa, Ricardo; Schlatter, Philipp; Nagib, H. M.	Flow features in three-dimensional turbulent duct flows with different aspect ratios	Konferensbidrag		Springer Proceedings in Ph 6th International Conference on Progress in Turbulence, iTi 2014, 29 August 2014 through 29 August 2014		123-126	2016
Vinuesa, Ricardo; Bartrons, E.; Chiu, D.; Rüedi, J. -D; Schlatter, Philipp; Obabko, A.; Nagib, H. M.	On minimum aspect ratio for experimental duct flow facilities	Konferensbidrag		2nd WALLTURB Workshop 18 June 2014 through 20 June 2014		201-211	2016
Bobke, Alexandra; Örlü, Ramis; Schlatter, Philipp	Turbulent asymptotic suction boundary layers : Effect of domain size and development time	Konferensbidrag		Springer Proceedings in Ph 6th International Conference on Progress in Turbulence, iTi 2014, 29 August 2014 through 29 August 2014		173-177	2016

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Shahriari, Nima; Hanifi, Ardeshir; Henningson, Dan S.	Application of biorthogonal eigenfunction system for extraction of Tollmien-Schlichting waves in acoustic receptivity simulations	Rapport						2016
Brynjell-Rahkola, Mattias; Shahriari, Nima; Schlatter, Philipp; Hanifi, Ardeshir; Henningson, Dan S.	Stability and sensitivity of a crossflow-dominated Falkner-"Skan-"Cooke boundary layer with discrete surface roughness	Artikel i tidskrift	Journal of Fluid Mechanics					2016
Markidis, Stefano; Peng, Ivybo; Iakymchuk, Roman; Laure, Erwin; Kestor, G.; Gioiosa, R.	A performance characterization of streaming computing on supercomputers	Konferensbidrag	Procedia Computer Scienc	International Conference on Computational Science, ICCS 2016, 6 June 2016 through 8 June 2016			98-107	2016
Kleusberg, Elektra; Sarmast, S.; Schlatter, Philipp; Ivanell, Stefan; Henningson, Dan Stefan	Actuator line simulations of a Joukowsky and Tjæreborg rotor using spectral element and finite volume methods	Artikel i tidskrift	Journal of Physics, Conference Series	5 October 2016 through 7 October 2016	753	8		2016
Quaranta, H. U.; Brynjell-Rahkola, Mattias; Leweke, T.; Henningson, Dan Stefan	Long-wave instabilities of two interlaced helical vortices	Artikel i tidskrift	Journal of Physics, Conference Series	5 October 2016 through 7 October 2016	753	3		2016
Offermans, Nicolas; Marin, O.; Schanen, M.; Gong, Jing; Fischer, P.; Schlatter, Philipp	On the strong scaling of the spectral element solver Nek5000 on petascale systems	Konferensbidrag	Proceedings of the 2016 Ex	2016 Exascale Applications and Software Conference, EASC 2016, Stockholm, Sweden, 25 April 2016 through 29 April 2016				2016
Peplinski, Adam; Fischer, P. F.; Schlatter, Philipp	Parallel performance of h-type Adaptive Mesh Refinement for Nek5000	Konferensbidrag	ACM International Confere	2016 Exascale Applications and Software Conference, EASC 2016, 25 April 2016 through 29 April 2016				2016
Cazzola, E.; Innocenti, M. E.; Goldman, M. V.; Newman, D. L.; Markidis, Stefano; Lapenta, G.	Electrons dynamics in asymmetric magnetic reconnection and rapid island coalescence : Anisotropy and agyrotropywith andwithout a guide field	Konferensbidrag	43rd European Physical So	43rd European Physical Society Conference on Plasma Physics, EPS 2016, 4 July 2016 through 8 July 2016				2016
Eriksson, Olivia; Tegnér, Jesper	Modeling and model simplification to facilitate biological insights and predictions.	Kapitel i bok, del av antologi	Uncertainty in Biology				301-325	2016
Hess, Berk; Gong, Jing; Pall, Szilard; Schlatter, Philipp; Peplinski, Adam	Highly Tuned Small Matrix Multiplications Applied to Spectral Element Code Nek5000	Konferensbidrag		The Third International Workshop on Sustainable Ultrascale Computing Systems			69-72	2016
Muld, Tomas W.; Efraimsson, Gunilla; Henningson, Dan S.; Herbst, Astrid H.; Orellano, Alexander	Analysis of flow structures in the wake of a high-speed train	Konferensbidrag	Proceedings aerodynamics	Aerodynamics of heavy vehicles III: Trucks, buses and trains, September 12-17, Potsdam, Germany, 2010	79			2016
Varisteas, G ; Brorsson, M ,	Palirria: accurate on-line parallelism estimation for adaptive work-stealing	Article	CONCURRENCY AND COMPUTATION-PRACTICE & EXPERIENCE		28	2	472 -491	2016
Ekeberg, Örjan; Fransén, Erik; Hellgren Kotaleski, Jeanette; Herman, Pawel; Kumar, Arvind; Lansner, Anders; Lindeberg, Tony	Computational Brain Science at CST, CSC, KTH	Övrigt						2016
Vinuesa, Ricardo; Bobke, Alexandra; Örlü, Ramis; Schlatter, Philipp	On determining characteristic length scales in pressure-gradient turbulent boundary layers	Artikel i tidskrift	Physics of fluids		28			2016
Khapko, Taras; Kreilos, Tobias; Schlatter, Philipp; Duguet, Yohann; Eckhardt, Bruno; Henningson, Dan	Edge states as mediators of bypass transition in boundary-layer flows	Artikel i tidskrift	Journal of Fluid Mechanics					2016
Canton, J , Orlu, R , Chin, C , Hutchins, N , Monty, J , Schlatter, P ,	On Large-Scale Friction Control in Turbulent Wall Flow in Low Reynolds Number Channels	Article	FLOW TURBULENCE AND COMBUSTION		97	3	811 -827	2016
Iakymchuk, Roman; Jordan, Herbert; Bo Peng, Ivy; Markidis, Stefano; Laure, Erwin	A Particle-in-Cell Method for Automatic Load-Balancing with the AllScale Environment	Konferensbidrag		The Exascale Applications & Software Conference (EASC2016)				2016
Kroll, Lars; Dowling, Jim; Haridi, Seif	Static Type Checking for the Kompics Component Model : Kola -" The Kompics Language	Konferensbidrag	First Workshop on Progran	Programming Models and Languages for Distributed Computing			01-Feb	2016
Nair, AG , Bhalla, US , Kotaleski, JH ,	Role of DARPP-32 and ARPP-21 in the Emergence of Temporal Constraints on Striatal Calcium and Dopamine Integration	Article	PLOS COMPUTATIONAL BIOLOGY		12	9	-	2016
Kametani, Y , Orlu, R , Schlatter, P , Fukagata, K ,	Effects of Uniform Blowing or Suction on the Amplitude Modulation in Spatially Developing Turbulent Boundary Layers	Proceedings Paper	ADVANCES IN COMPUTATION, MODELING AND CONTROL OF TRANSITIONAL AND TURBULENT FLOWS				185 -194	2016
Loytynoja, T , Li, X , Jankala, K , Rinkevicius, Z , Aringgren, H ,	Quantum mechanics capacitance molecular mechanics modeling of core-electron binding energies of methanol and methyl nitrite on Ag(111) surface	Article	JOURNAL OF CHEMICAL PHYSICS		145	2	-	2016
Cazzola, E , Innocenti, ME , Goldman, MV , Newman, DL , Markidis, S , Lapenta, G ,	On the electron agyrotropy during rapid asymmetric magnetic island coalescence in presence of a guide field	Article	GEOPHYSICAL RESEARCH LETTERS		43	15	7840 -7849	2016
Appelquist, E , Schlatter, P , Alfredsson, PH , Lingwood, RJ ,	On the global nonlinear instability of the rotating-disk flow over a finite domain	Article	JOURNAL OF FLUID MECHANICS		803		332 -355	2016
Chattopadhyaya, M , Murugan, NA , Rinkevicius, Z ,	Origin of the Absorption Band of Bromophenol Blue in Acidic and Basic pH: Insight from a Combined Molecular Dynamics and TD-DFT/MM Study	Article	JOURNAL OF PHYSICAL CHEMISTRY A		120	36	7175 -7182	2016
Brocke, E , Bhalla, US , Djurfeldt, M , Kotaleski, JH , Hanke, M ,	Efficient Integration of Coupled Electrical-Chemical Systems in Multiscale Neuronal Simulations	Article	FRONTIERS IN COMPUTATIONAL NEUROSCIENCE		10		-	2016
Stroh, A , Hasegawa, Y , Schlatter, P , Frohnapfel, B ,	Global effect of local skin friction drag reduction in spatially developing turbulent boundary layer	Article	JOURNAL OF FLUID MECHANICS		805		303 -321	2016
Lapenta, G , Goldman, M , Newman, D , Markidis, S ,	Where should MMS look for electron diffusion regions?	Proceedings Paper	10TH INTERNATIONAL CONFERENCE ON NUMERICAL MODELING OF SPACE PLASMA FLOWS: ASTRONUM-2015		719		-	2016
Innocenti, ME , Tronci, C , Markidis, S , Lapenta, G ,	Grid coupling mechanism in the semi-implicit adaptive Multi-Level Multi-Domain method	Proceedings Paper	10TH INTERNATIONAL CONFERENCE ON NUMERICAL MODELING OF SPACE PLASMA FLOWS: ASTRONUM-2015		719		-	2016
Liu, HL , Runborg, O , Tanushev, NM ,	SOBOLEV AND MAX NORM ERROR ESTIMATES FOR GAUSSIAN BEAM SUPERPOSITIONS	Article	COMMUNICATIONS IN MATHEMATICAL SCIENCES		14	7	2037 -2072	2016
Ahmed, L , Edlund, A , Laure, E , Whitmarsh, S ,	Parallel Real Time Seizure Detection in Large EEG Data	Proceedings Paper	IOTBD: PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON INTERNET OF THINGS AND BIG DATA				214 -222	2016
Simon, B , Fabbiane, N , Nemitz, T , Bagheri, S , Henningson, DS , Grundmann, S ,	In-flight active wave cancelation with delayed-x-LMS control algorithm in a laminar boundary layer	Article	EXPERIMENTS IN FLUIDS		57	10	-	2016
Johlander, A , Schwartz, SJ , Vaivads, A , Khotyaintsev, YV , Gingell, I , Peng, IB , Markidis, S , Lindqvist, PA , Ergun, RE , Marklund, GT , et al	Rippled Quasiperpendicular Shock Observed by the Magnetospheric Multiscale Spacecraft	Article	PHYSICAL REVIEW LETTERS		117	16	-	2016
Borlenghi, S , Mahani, MR , Delin, A , Fransson, J ,	Nanoscale control of heat and spin conduction in artificial spin chains	Article	PHYSICAL REVIEW B		94	13	-	2016
Jarlebring, E , Hochstenbach, ME , Koskela, A ,	KRYLOV APPROXIMATION OF LINEAR ODEs WITH POLYNOMIAL PARAMETERIZATION	Article	SIAM JOURNAL ON MATRIX ANALYSIS AND APPLICATIONS		37	2	519 -538	2016
Smith, AD , Elgammal, K , Fan, XG , Lemme, M , Delin, A , Niklaus, F , Ostling, M ,	Toward Effective Passivation of Graphene to Humidity Sensing Effects	Proceedings Paper	2016 46TH EUROPEAN SOLID-STATE DEVICE RESEARCH CONFERENCE (ESSDERC)				299 -302	2016
Divin, A , Semenov, V , Korovinskiy, D , Markidis, S , Deca, J , Olshevsky, V , Lapenta, G ,	A new model for the electron pressure nongyrotropy in the outer electron diffusion region	Article	GEOPHYSICAL RESEARCH LETTERS		43	20	10565 -10573	2016
Bergman, A , Hellsvik, J , Bessarab, PF , Delin, A ,	Spin relaxation signature of colossal magnetic anisotropy in platinum atomic chains	Article	SCIENTIFIC REPORTS		6		-	2016
Vinuesa, R , Prus, C , Schlatter, P , Nagib, H ,	Convergence of numerical simulations of turbulent wall-bounded flows and mean cross-flow structure of rectangular ducts	Article	MECCANICA		51	12	3025 -3042	2016
Divin, A , Khotyaintsev, YV , Vaivads, A , Andre, M , Toledo-Redondo, S , Markidis, S , Lapenta, G ,	Three-scale structure of diffusion region in the presence of cold ions	Article	JOURNAL OF GEOPHYSICAL RESEARCH-SPACE PHYSICS		121	12	12001 -12013	2016
Marin, O , Vinuesa, R , Obabko, AV , Schlatter, P ,	Characterization of the secondary flow in hexagonal ducts	Article	PHYSICS OF FLUIDS		28	12	-	2016
Cazzola, E , Curreli, D , Markidis, S , Lapenta, G ,	On the ions acceleration via collisionless magnetic reconnection in laboratory plasmas	Article	PHYSICS OF PLASMAS		23	11	-	2016
Canton, J , Orlu, R , Chin, C , Schlatter, P ,	Reynolds number dependence of large-scale friction control in turbulent channel flow	Article	PHYSICAL REVIEW FLUIDS		1	8	-	2016
Orellana, L , Yoluk, O , Carrillo, O , Orozco, M , Lindahl, E ,	Prediction and validation of protein intermediate states from structurally rich ensembles and coarse-grained simulations	Article	NATURE COMMUNICATIONS		7		-	2016
Karlsson, A , Olofsson, N , Laure, E , Clements, M ,	A parallel microsimulation package for modelling cancer screening policies	Proceedings Paper	PROCEEDINGS OF THE 2016 IEEE 12TH INTERNATIONAL CONFERENCE ON E-SCIENCE (E-SCIENCE)				323 -330	2016
Malenova, G , Motamed, M , Runborg, O , Tempone, R ,	A Sparse Stochastic Collocation Technique for High-Frequency Wave Propagation with Uncertainty	Article	SIAM-ASA JOURNAL ON UNCERTAINTY QUANTIFICATION		4	1	1084 -1110	2016
Tornberg, AK ,	The Ewald sums for singly, doubly and triply periodic electrostatic systems	Article	ADVANCES IN COMPUTATIONAL MATHEMATICS		42	1	227 -248	2016
Bobke, A , Orlu, R , Schlatter, P ,	Simulations of turbulent asymptotic suction boundary layers	Article	JOURNAL OF TURBULENCE		17	2	157 -180	2016

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Appelquist, E , Imayama, S , Alfredsson, PH , Schlatter, P , Lingwood, RJ ,	Linear disturbances in the rotating-disk flow: A comparison between results from simulations, experiments and theory	Article	EUROPEAN JOURNAL OF MECHANICS B-FLUIDS	55		170 -181	2016
Peters, L , Ghosh, S , Sanyal, B , van Dijk, C , Bowlan, J , de Heer, W , Delin, A , Di Marco, I , Eriksson, O , Katsnelson, MI , et al	Magnetism and exchange interaction of small rare-earth clusters; Tb as a representative	Article	SCIENTIFIC REPORTS	6		-	2016
Cedervall, J , Andersson, MS , Sarkar, T , Delczeg-Czirjak, EK , Bergqvist, L , Hansen, TC , Beran, P , Nordblad, P , Sahlberg, M ,	Magnetic structure of the magnetocaloric compound AlFe2B2	Article	JOURNAL OF ALLOYS AND COMPOUNDS	664		784 -791	2016
Wang, ZJ , Seidel, HP , Weinkauf, T ,	Multi-field Pattern Matching based on Sparse Feature Sampling	Article	IEEE TRANSACTIONS ON VISUALIZATION AND COMPUTER GRAPHICS	22	1	807 -816	2016
Innocenti, ME , Beck, A , Markidis, S , Lapenta, G ,	Momentum conservation in Multi-Level Multi-Domain (MLMD) simulations	Article	JOURNAL OF COMPUTATIONAL PHYSICS	312		14 -18	2016
Olshevsky, V , Deca, J , Divin, A , Peng, IB , Markidis, S , Innocenti, ME , Cazzola, E , Lapenta, G ,	MAGNETIC NULL POINTS IN KINETIC SIMULATIONS OF SPACE PLASMAS	Article	ASTROPHYSICAL JOURNAL	819	1	-	2016
Chen, YX , Daldorff, LKS , Toth, G , Jia, XZ , Markidis, S , Peng, IB , Tenishev, VM , Borovikov, D , Haiducek, JD , Gombosi, TI , et al	Extended magnetohydrodynamics with embedded particle-in-cell simulation of Ganymede's magnetosphere	Article	JOURNAL OF GEOPHYSICAL RESEARCH-SPACE PHYSICS	121	2	1273 -1293	2016
Van Beeumen, R , Jarlebring, E , Michiels, W ,	A rank-exploiting infinite Arnoldi algorithm for nonlinear eigenvalue problems	Article	NUMERICAL LINEAR ALGEBRA WITH APPLICATIONS	23	4	607 -628	2016
Huang, S , Li, W , Li, XQ , Schonecker, S , Bergqvist, L , Holmstrom, E , Varga, LK , Vitos, L ,	Mechanism of magnetic transition in FeCrCoNi-based high entropy alloys	Article	MATERIALS & DESIGN	103		71 -74	2016
Canton, J , Schlatter, P , Orlu, R ,	Modal instability of the flow in a toroidal pipe	Article	JOURNAL OF FLUID MECHANICS	792		894 -909	2016
Li, C , Monti, S , Li, X , Rinkevicius, Z , Agren, H , Carravetta, V ,	Theoretical study of para-nitro-aniline adsorption on the Au(111) surface	Article	SURFACE SCIENCE	649		124 -132	2016
Nys, M , Farinha, A , Wijckmans, E , Brams, M , Yoluk, O , Andersson, M , Lindahl, E , Ulens, C ,	The Crystal Structure of ELIC in Complex with Chlorpromazine Unexpectedly Unveils an Allosteric Binding Site in the Ligand-Binding Domain	Meeting Abstract	BIOPHYSICAL JOURNAL	110	3	457A -457A	2016
Heusser, SA , Howard, RJ , Pouya, I , Klement, G , Borghese, C , Harris, RA , Lindahl, E ,	A Single Mutation in GLIC Reveals Both the Potentiating and the Inhibitory Nature of Propofol	Meeting Abstract	BIOPHYSICAL JOURNAL	110	3	456A -456A	2016
Yoluk, O , Orellana, L , Bertaccini, EJ , Trudell, JR , Lindahl, E ,	Principal Components from Ligand-Gated Ion Channel Structures Enable Ensemble Studies of Microsecond-Scale Transitions	Meeting Abstract	BIOPHYSICAL JOURNAL	110	3	454A -454A	2016
Conti, L , Renhorn, J , Gabrielsson, A , Turesson, F , Liin, S , Lindahl, E , Elinder, F ,	A Reciprocal Voltage Sensor-To-Pore Coupling in C-Type Inactivation	Meeting Abstract	BIOPHYSICAL JOURNAL	110	3	104A -104A	2016
Arjmand, D , Runborg, O ,	A time dependent approach for removing the cell boundary error in elliptic homogenization problems	Article	JOURNAL OF COMPUTATIONAL PHYSICS	314		206 -227	2016
Bobke, A , Vinuesa, R , Orlu, R , Schlatter, P ,	Large-eddy simulations of adverse pressure gradient turbulent boundary layers	Proceedings Paper	2ND MULTIFLOW SUMMER SCHOOL ON TURBULENCE	708		-	2016
Manzini, G , Delzanno, GL , Vencels, J , Markidis, S ,	A Legendre-Fourier spectral method with exact conservation laws for the Vlasov-Poisson system	Article	JOURNAL OF COMPUTATIONAL PHYSICS	317		82 -107	2016
Panda, SK , Di Marco, I , Delin, A , Eriksson, O ,	Correlated electronic structure of CeN	Article	JOURNAL OF ELECTRON SPECTROSCOPY AND RELATED PHENOMENA	208		111 -115	2016
Mirsakiyeva, A , Botkina, D , Elgammal, K , Ten, A , Hugosson, HW , Delin, A , Yu, V ,	Experimental and density functional theory studies of some novel piperidine-containing acetylene glycols	Article	ARKIVOC			86 -99	2016
Vinuesa, R , Bobke, A , Orlu, R , Schlatter, P ,	On determining characteristic length scales in pressure-gradient turbulent boundary layers	Article	PHYSICS OF FLUIDS	28	5	-	2016
Deca, J , Divin, A , Wang, X , Lembege, B , Markidis, S , Horanyi, M , Lapenta, G ,	Three-dimensional full-kinetic simulation of the solar wind interaction with a vertical dipolar lunarmagnetic anomaly	Article	GEOPHYSICAL RESEARCH LETTERS	43	9	4136 -4144	2016
Panda, SK , Pal, B , Mandal, S , Gorgoi, M , Das, S , Sarkar, I , Drube, W , Sun, WW , Di Marco, I , Lindblad, A , et al	High photon energy spectroscopy of NiO: Experiment and theory	Article	PHYSICAL REVIEW B	93	23	-	2016
Innocenti, ME , Norgren, C , Newman, D , Goldman, M , Markidis, S , Lapenta, G ,	Study of electric and magnetic field fluctuations from lower hybrid drift instability waves in the terrestrial magnetotail with the fully kinetic, semi-implicit, adaptive multi level multi domain method	Article	PHYSICS OF PLASMAS	23	5	-	2016
Chico, J , Keshavarz, S , Kvashnin, Y , Pereiro, M , Di Marco, I , Etz, C , Eriksson, O , Bergman, A , Bergqvist, L ,	First-principles studies of the Gilbert damping and exchange interactions for half-metallic Heuslers alloys	Article	PHYSICAL REVIEW B	93	21	-	2016
Shahriari, N , Bodony, DJ , Hanifi, A , Henningson, DS ,	Acoustic receptivity simulations of flow past a flat plate with elliptic leading edge	Article	JOURNAL OF FLUID MECHANICS	800		-	2016
Li, X , Carravetta, V , Li, C , Monti, S , Rinkevicius, Z , Aring;gren, H ,	Optical Properties of Gold Nanoclusters Functionalized with a Small Organic Compound: Modeling by an Integrated Quantum-Classical Approach	Article	JOURNAL OF CHEMICAL THEORY AND COMPUTATION	12	7	3325 -3339	2016
Belic, JJ , Kotaleski, JH ,	Striatal Processing of Cortical Neuronal Avalanches - A Computational Investigation	Proceedings Paper	ARTIFICIAL NEURAL NETWORKS AND MACHINE LEARNING - ICANN 2016, PT I	9886		72 -79	2016
Vinuesa, R , Schlatter, P , Henningson, DS ,	Characterization of the Massively Separated Wake Behind a Square Cylinder by Means of Direct Numerical Simulation	Proceedings Paper	PROCEEDINGS OF THE 5TH INTERNATIONAL CONFERENCE ON JETS, WAKES AND SEPARATED FLOWS (ICJWSF2015)	185		259 -266	2016
Bessani, A , Brandt, J , Cogo, V , Dimitrova, L , Dowling, J , Gholami, A , Hakimzadeh, K , Bux, M , Hummel, M , Ismail, M , et al	BiobankCloud: A Platform for the Secure Storage, Sharing, and Processing of Large Biomedical Data Sets	Proceedings Paper	BIOMEDICAL DATA MANAGEMENT AND GRAPH ONLINE QUERYING	9579		89 -105	2016
Orlu, R , Kametani, Y , Fukagata, K , Schlatter, P ,	Drag reduction in spatially developing turbulent boundary layers by spatially intermittent blowing at constant mass-flux	Article	JOURNAL OF TURBULENCE	17	10	913 -929	2016
Gong, J , Markidis, S , Laure, E , Otten, M , Fischer, P , Min, MS ,	Nekbone performance on GPUs with OpenACC and CUDA Fortran implementations	Article	JOURNAL OF SUPERCOMPUTING	72	11	4160 -4180	2016
Kreilos, T , Khapko, T , Schlatter, P , Duguet, Y , Henningson, DS , Eckhardt, B ,	Bypass transition and spot nucleation in boundary layers	Article	PHYSICAL REVIEW FLUIDS	1	4	-	2016
Pan, F , Chico, J , Hellsvik, J , Delin, A , Bergman, A , Bergqvist, L ,	Systematic study of magnetodynamic properties at finite temperatures in doped permalloy from first-principles calculations	Article	PHYSICAL REVIEW B	94	21	-	2016
Noorani, A , Vinuesa, R , Brandt, L , Schlatter, P ,	Aspect ratio effect on particle transport in turbulent duct flows	Article	PHYSICS OF FLUIDS	28	11	-	2016
Markidis, S , Peng, IB , Traff, JL , Rougier, A , Bartsch, V , Machado, R , Rahn, M , Hart, A , Holmes, D , Bull, M , et al	The EPiGRAM Project: Preparing Parallel Programming Models for Exascale	Proceedings Paper	HIGH PERFORMANCE COMPUTING, ISC HIGH PERFORMANCE 2016 INTERNATIONAL WORKSHOPS	9945		56 -68	2016
Noorani, A , Schlatter, P ,	Swirl-switching phenomenon in turbulent flow through toroidal pipes	Article	INTERNATIONAL JOURNAL OF HEAT AND FLUID FLOW	61		108 -116	2016
Peng, IB , Markidis, S , Laure, E , Kestor, G , Gioiosa, R ,	Idle Period Propagation in Message-Passing Applications	Proceedings Paper	PROCEEDINGS OF 2016 IEEE 18TH INTERNATIONAL CONFERENCE ON HIGH PERFORMANCE COMPUTING AND COMMUNICATIONS; IEEE 14TH INTERNATIONAL CONFERENCE ON SMART CITY; IEEE 2ND INTERNATIONAL CONFERENCE ON DATA SCIENCE AND SYSTEMS (HPCC/SMARTCITY/DSS)			937 -944	2016
Peng, IB , Markidis, S , Laure, E , Kestor, G , Gioiosa, R ,	Exploring Application Performance on Emerging Hybrid-Memory Supercomputers	Proceedings Paper	PROCEEDINGS OF 2016 IEEE 18TH INTERNATIONAL CONFERENCE ON HIGH PERFORMANCE COMPUTING AND COMMUNICATIONS; IEEE 14TH INTERNATIONAL CONFERENCE ON SMART CITY; IEEE 2ND INTERNATIONAL CONFERENCE ON DATA SCIENCE AND SYSTEMS (HPCC/SMARTCITY/DSS)			473 -480	2016
Noorani, A , Sardina, G , Brandt, L , Schlatter, P ,	Particle transport in turbulent curved pipe flow	Article	JOURNAL OF FLUID MECHANICS	793		248 -279	2016
Khapko, T , Schlatter, P , Duguet, Y , Henningson, DS ,	Turbulence collapse in a suction boundary layer	Article	JOURNAL OF FLUID MECHANICS	795		356 -379	2016
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Khapko, T , Kreilos, T , Schlatter, P , Duguet, Y , Eckhardt, B , Henningson, DS ,	Edge states as mediators of bypass transition in boundary-layer flows	Article	JOURNAL OF FLUID MECHANICS	801		-	2016
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Berthet, P , Lindahl, M , Tully, PJ , Hellgren-Kotaleski, J , Lansner, A ,	Functional Relevance of Different Basal Ganglia Pathways Investigated in a Spiking Model with Reward Dependent Plasticity	Article	FRONTIERS IN NEURAL CIRCUITS	10		-	2016
Rinkevicius, Z , Sandberg, JAR , Li, X , Linares, M , Norman, P , Agren, H ,	Hybrid Complex Polarization Propagator/Molecular Mechanics Method for Heterogeneous Environments	Article	JOURNAL OF CHEMICAL THEORY AND COMPUTATION	12	6	2661 -2667	2016
Nys, M , Wijckmans, E , Farinha, A , Yoluk, O , Andersson, M , Brams, M , Spurny, R , Peigneur, S , Tytgat, J , Lindahl, E , et al	Allosteric binding site in a Cys-loop receptor ligand-binding domain unveiled in the crystal structure of ELIC in complex with chlorpromazine	Article	PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA	113	43	E6696 -E6703	2016
Kimanius, D , Forsberg, BO , Scheres, SHW , Lindahl, E ,	Accelerated cryo-EM structure determination with parallelisation using GPUs in RELION-2	Article	ELIFE	5		-	2016

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Tully, PJ, Linden, H, Hennig, MH, Lansner, A,	Spike-Based Bayesian-Hebbian Learning of Temporal Sequences	Article	PLOS COMPUTATIONAL BIOLOGY		12	5	-	2016
Oreilly, Ossian; Dunham, Eric M.; Nordström, Jan	Simulation of wave propagation along fluid-filled cracks using high-order summation-by-parts operators and implicit-explicit time stepping	Rapport						2016
Ivanova, Valentina; Lambrix, Patrick; Lohmann, Steffen; Pesquita, Catia	VOILA! 2016 : Proceedings of the 2nd International Workshop on Visualization and Interaction for Ontologies and Linked Data, Co-located with ISWC 2016, Kobe, Japan, October 17, 2016	Proceedings (redaktörskap)		2nd International Workshop on Visualization and Interaction for Ontologies and Linked Data, Kobe, Japan, October 17				2016
Lambrix, Patrick; Dragisic, Zlatan; Ivanova, Valentina; Anslow, Craig	Visualization for Ontology Evolution	Konferensbidrag	VOILA 2016 Visualization a	2nd International Workshop on Visualization and Interaction for Ontologies and Linked Data, Kobe, Japan, October 17, 2016			54-67	2016
O'Reilly, Ossian; Lundquist, Tomas; Nordström, Jan; Dunham, Eric M.	Energy stable and high-order-accurate finite difference methods on staggered grids	Rapport						2016
Frenander, Hannes; Nordström, Jan	A stable and accurate data assmimilation technique using multiple penalty terms in space and time	Rapport						2016
Wahlsten, Markus; Nordström, Jan	The effect of uncertain geometries on advection-diffusion of scalar quantities	Rapport						2016
Achichi, Manel; Cheatham, Michelle; Dragisic, Zlatan; Euzenat, Jerome; Faria, Daniel; Ferrara, Alfio; Flouris, Giorgos; Fundulaki, Irini; Harrow, Ian; Ivanova, Valentina; Jiménez-Ruiz, Ernesto; Kuss, Elena; Lambrix, Patrick; Leopold, Henrik; Li, Huanyu; Meilicke, Christian; Montanelli, Stefano; Pesquita, Catia; Saveta, Tzanina; Shvaiko, Pavel; Splendiani, Andrea; Stuckenschmidt, Heiner; Todorov, Konstantin; Trojahn, Cassia; Zamazal, Ond?ej	Results of the Ontology Alignment Evaluation Initiative 2016	Konferensbidrag	Proceedings of the 11th In	11th International Workshop on Ontology Matching			73-129	2016
Hansson, Erik; Kessler, Christoph	Optimized variant-selection code generation for loops on heterogeneous multicore systems	Kapitel i bok, del av antologi		Parallel Computing : On the Road to Exascale			103-112	2016
Sjöström, Oskar; Ko, Soon Heum; Dastgeer, Usman; Li, Lu; Kessler, Christoph	Portable Parallelization of the EDGE CFD Application for GPU-based Systems using the SkePU Skeleton Programming Library	Kapitel i bok, del av antologi		Parallel Computing : On the Road to Exascale			135-144	2016
Melot, Nicolas; Kessler, Christoph; Keller, Jörg	Improving Energy-Efficiency of Static Schedules by Core Consolidation and Switching Off Unused Cores	Kapitel i bok, del av antologi		Parallel Computing : On the Road to Exascale			285-294	2016
Nordström, Jan; Lundquist, Tomas	Summation-by-parts in Time: the Second Derivative	Rapport						2016
Lundquist, Tomas; Nordström, Jan	On the Suboptimal Accuracy of Summation-by-parts Schemes with Non-conforming Block Interfaces	Rapport						2016
Linders, Viktor; Kupiainen, Marko; Frankel, Steven H.; Delorme, Yann; Nordström, Jan	Summation-by-parts Operators with Minimal Dispersion Error for Accurate and Efficient Flow Calculations	Konferensbidrag		54th AIAA Aerospace Sciences Meeting, AIAA SciTech, (AIAA 2016-1329).				2016
Eliasson, Peter; Lundquist, Tomas; Nordström, Jan	A global time integration approach for realistic unsteady flow computations	Konferensbidrag		54th AIAA Aerospace Sciences Meeting, AIAA SciTech, (AIAA 2016-2021).				2016
Lundquist, Tomas; Nordström, Jan	An Energy Stable Summation-by-parts Formulation for General Multi-block and Hybrid Meshes	Rapport						2016
Hotz, Ingrid	Acceleration Feature Points of Unsteady Shear Flows	Artikel i tidskrift	Journal Archives of Mechanics		68	1	55-80	2016
Paulheim, Heiko; Lehmann, Jens; Svatek, Vojtech; Knoblock, Craig; Horridge, Matthew; Lambrix, Patrick; Parsia, Bijan	Joint Proceedings of 5th Workshop on Data Mining and Knowledge Discovery meets Linked Open Data (Know@LOD 2016) and 1st International Workshop on Completing and Debugging the Semantic Web (CoDeS 2016)	Proceedings (redaktörskap)		1st International Workshop on Completing and Debugging the Semantic Web, Heraklion, Greece, May 30th, 2016				2016
Kauker, Daniel; Falk, Martin; Reina, Guido; Ynnerman, Anders; Ertl, Thomas	VoxLink—Combining sparse volumetric data and geometry for efficient rendering	Artikel i tidskrift	Computational Visual Media		2	1	45-56	2016
Linders, Viktor; Kupiainen, Marco; Nordström, Jan	Summation-by-Parts Operators with Minimal Dispersion Error for Coarse Grid Flow Calculations	Rapport						2016
Cervin, Ida; Molin, Jesper; Lundström, Claes	Improving the creation and reporting of structured findings during digital pathology review	Artikel i tidskrift	Journal of Pathology Informatics		7	1	32-32	2016
Lundström, Claes; Waltersson, Marie; Persson, Anders; Treanor, Darren	Summary of third Nordic symposium on digital pathology	Artikel i tidskrift	Journal of Pathology Informatics		7	12		2016
Nikkar, Samira; Nordström, Jan	A fully discrete, stable and conservative summation-by-parts formulation for deforming interfaces	Rapport						2016
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Nikkar, Samira; Nordström, Jan	Summation-by-parts operators for non-simply connected domains	Rapport						2016
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Englund, Rickard; Ropinski, Timo; Hotz, Ingrid	Coherence Maps for Blood Flow Exploration	Konferensbidrag	VCBM 16: Eurographics W	The 6th Eurographics Workshop on Visual Computing for Biology and Medicine, Bergen, Norway, September 7-9, 2016			79-88	2016
Jankowai, Jochen; Englund, Rickard; Ropinski, Timo; Hotz, Ingrid	Interactive 4D MRI blood flow exploration and analysis using line predicates	Konferensbidrag	Proceedings of SIGRAD 201	SIGRAD 2016, May 23rd and 24th, Visby, Sweden			35-42	2016
Ålund, Oskar; Nordström, Jan	A provably stable, non-iterative domain decomposition technique for the advection-diffusion equation	Rapport						2016
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Li, L , Dastgeer, U , Kessler, C ,	Pruning strategies in adaptive off-line tuning for optimized composition of components on heterogeneous systems	Article	PARALLEL COMPUTING	51		37 -45	2016
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Nordstrom, J , Lundquist, T ,	SUMMATION-BY-PARTS IN TIME: THE SECOND DERIVATIVE	Article	SIAM JOURNAL ON SCIENTIFIC COMPUTING	38	3	A1561 -A1586	2016
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Cukras, J , Kauczor, J , Norman, P , Rizzo, A , Rikken, GLJA , Coriani, S ,	A complex-polarization-propagator protocol for magneto-chiral axial dichroism and birefringence dispersion	Article	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	18	19	13267 -13279	2016
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Uziela, K , Shu, NJ , Wallner, B , Elofsson, A ,	ProQ3: Improved model quality assessments using Rosetta energy terms	Article	SCIENTIFIC REPORTS	6		-	2016
Woods, Cian; Caballero, Rodrigo	The Role of Moist Intrusions in Winter Arctic Warming and Sea Ice Decline	Artikel i tidskrift	Journal of Climate	29		4473-4485	2016
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Guo, Q, Burgess, S, Turman, C, Bolla, MK, Wang, Q, Lush, M, Abraham, J, Aittomaki, K, Andrulis, IL, Apicella, C, et al	Body mass index and breast cancer survival: a Mendelian randomization analysis	Article	INTERNATIONAL JOURNAL OF EPIDEMIOLOGY	46	6	1814 -1822	2017
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Larsson, D, Spuhler, JH, Gunyeli, E, Weinkauf, T, Hoffman, J, Colarieti-Tosti, M, Winter, R, Larsson, M,	Estimation of left ventricular blood flow parameters - clinical application of patient-specific CFD simulations from 4D echocardiography	Proceedings Paper	MEDICAL IMAGING 2017: ULTRASONIC IMAGING AND TOMOGRAPHY		10139		-	2017
Howard, RJ, Heusser, SA, Yoluk, O, Snow, O, Klement, G, Mola, AR, Ruel, TMD, Lindahl, E,	Transmembrane Structural Determinants of Alcohol Binding and Modulation in a Model Ligand-Gated Ion Channel	Meeting Abstract	BIOPHYSICAL JOURNAL		112	3	554A-554A	2017
Arjmand, D, Runborg, O,	ESTIMATES FOR THE UPSCALING ERROR IN HETEROGENEOUS MULTISCALE METHODS FOR WAVE PROPAGATION PROBLEMS IN LOCALLY PERIODIC MEDIA	Article	MULTISCALE MODELING & SIMULATION		15	2	948-976	2017
Saikia, H, Weinkauf, T,	Global Feature Tracking and Similarity Estimation in Time-Dependent Scalar Fields	Article	COMPUTER GRAPHICS FORUM		36	3	11-Jan	2017
Lizarraga, R, Pan, F, Bergqvist, L, Holmstrom, E, Gercsi, Z, Vitos, L,	First Principles Theory of the hcp-fcc Phase Transition in Cobalt	Article	SCIENTIFIC REPORTS		7		-	2017
Vinuesa, Ricardo; Bobke, Alexandra; Örlü, Ramis; Schlatter, Philipp	Scaling of adverse-pressure-gradient turbulent boundary layers in near-equilibrium conditions	Konferensbidrag	Progress in Turbulence VII	7th iTi Conference on Turbulence, 2016, Bertinoro, Italy, 7 September 2016 through 9 September 2016	196		73-78	2017
Schlatter, Philipp; Noorani, Azad; Canton, Jacopo; Hufnagel, Lorenz; Örlü, Ramis; Marin, O.; Merzari, E.	Transitional and turbulent bent pipes	Konferensbidrag	Progress in Turbulence VII	7th iTi Conference on Turbulence, 2016, Bertinoro, Italy, 7 September 2016 through 9 September 2016	196		81-87	2017
Sanmiguel Vila, C.; Vinuesa, Ricardo; Discetti, S.; Ianiro, A.; Schlatter, Philipp; Örlü, Ramis	Identifying well-behaved turbulent boundary layers	Konferensbidrag	Progress in Turbulence VII	7th iTi Conference on Turbulence, 2016, Bertinoro, Italy, 7 September 2016 through 9 September 2016	196		67-72	2017
Vidal, A, Vinuesa, R, Schlatter, P, Nagib, HM,	Influence of corner geometry on the secondary flow in turbulent square ducts	Article	INTERNATIONAL JOURNAL OF HEAT AND FLUID FLOW		67		69-78	2017
Ormenisan, AA, Dowling, J,	Dela - Sharing Large Datasets between Hadoop Clusters	Proceedings Paper	2017 IEEE 37TH INTERNATIONAL CONFERENCE ON DISTRIBUTED COMPUTING SYSTEMS (ICDCS 2017)				2533-2536	2017
Kroll, L, Ormenisan, AA, Dowling, J,	Fast and Flexible Networking for Message-oriented Middleware	Proceedings Paper	2017 IEEE 37TH INTERNATIONAL CONFERENCE ON DISTRIBUTED COMPUTING SYSTEMS (ICDCS 2017)				1453-1464	2017
Iakymchuk, R, Quintana-Orti, ES, Laure, E, Graillat, S,	Towards Reproducible Blocked LU Factorization	Proceedings Paper	2017 IEEE INTERNATIONAL PARALLEL AND DISTRIBUTED PROCESSING SYMPOSIUM WORKSHOPS (IPDPSW)				1598-1607	2017
Akhmetova, D, Iakymchuk, R, Ekeberg, O, Laure, E,	Performance study of multithreaded MPI and OpenMP tasking in a large scientific code	Proceedings Paper	2017 IEEE INTERNATIONAL PARALLEL AND DISTRIBUTED PROCESSING SYMPOSIUM WORKSHOPS (IPDPSW)				756-765	2017
Bahuguna, J, Tetzlaff, T, Kumar, A, Kotaleski, JH, Morrison, A,	Homologous Basal Ganglia Network Models in Physiological and Parkinsonian Conditions	Article	FRONTIERS IN COMPUTATIONAL NEUROSCIENCE		11		-	2017
Mirsakiyeva, A, Hugosson, HW, Linares, M, Delin, A,	Temperature dependence of band gaps and conformational disorder in PEDOT and its selenium and tellurium derivatives: Density functional calculations	Article	JOURNAL OF CHEMICAL PHYSICS		147	13	-	2017
von Malottki, S, Dupe, B, Bessarab, PF, Delin, A, Heinze, S,	Enhanced skyrmion stability due to exchange frustration	Article	SCIENTIFIC REPORTS		7		-	2017
Borlenghi, S, Mahani, MR, Fangohr, H, Franchin, M, Delin, A, Fransson, J,	Micromagnetic simulations of spin-torque driven magnetization dynamics with spatially resolved spin transport and magnetization texture	Article	PHYSICAL REVIEW B		96	9	-	2017
Belic, Jovana; Kumar, Arvind; Hellgren Kotaleski, Jeanette	Interactions in the Striatal Network with Different Oscillation Frequencies	Konferensbidrag	Artificial Neural Networks	Artificial Neural Networks and Machine Learning – ICANN 2017.	10613		129-136	2017
Offermans, Nicolas; Peplinski, Adam; Marin, Oana; Fischer, Paul; Schlatter, Philipp	Towards adaptive mesh refinement for the spectral element solver Nek5000	Rapport						2017
Offermans, Nicolas; Peplinski, Adam; Marin, Oana; Schlatter, Philipp	Adjoint error estimators and adaptive mesh refinement in Nek5000	Rapport						2017
Kazerooni, HT, Fornari, W, Hussong, J, Brandt, L,	Inertial migration in dilute and semidilute suspensions of rigid particles in laminar square duct flow	Article	PHYSICAL REVIEW FLUIDS		2	8	-	2017
Fornari, Walter; Niazi Ardekani, Mehdi; Brandt, L.uca	Clustering and increased settling speed of oblate particles at finite Reynolds number	Artikel i tidskrift	Journal of Fluid Mechanics					2017
Fornari, Walter; Tabaei Kazerooni, Hamid; Hussong, Jeanette; Brandt, Luca	Suspensions of finite-size neutrally buoyant spheres in turbulent duct flow	Artikel i tidskrift	Journal of Fluid Mechanics					2017
Ezhova, E, Cenedese, C, Brandt, L,	Dynamics of a Turbulent Buoyant Plume in a Stratified Fluid: An Idealized Model of Subglacial Discharge in Greenland Fjords	Article	JOURNAL OF PHYSICAL OCEANOGRAPHY		47	10	2611-2630	2017
Ismail, M, Gebremeskel, E, Kakantousis, T, Berthou, G, Dowling, J,	Hopsworks: Improving User Experience and Development on Hadoop with Scalable, Strongly Consistent Metadata	Proceedings Paper	2017 IEEE 37TH INTERNATIONAL CONFERENCE ON DISTRIBUTED COMPUTING SYSTEMS (ICDCS 2017)				2525-2528	2017
Brandt, L.uca; Ardekani, Mehdi Niazi; Picano, F.; Costa, P.; Breugem, W. -P	Numerical study of turbulent channel flow laden with finite-size non-spherical particles	Konferensbidrag		10th International Symposium on Turbulence and Shear Flow Phenomena, TSFP 2017, Swissotel Chicago, United States, 6 July 2017 through 9 July 2017	4			2017
Picano, F.; Costa, P.; Breugem, W. -P; Brandt, L.uca	Turbulence modulation by dense suspensions in channel flows	Konferensbidrag		10th International Symposium on Turbulence and Shear Flow Phenomena, TSFP 2017, Swissotel ChicagoChicago, United States, 6 July 2017 through 9 July 2017	1			2017
Schlatter, Philipp; Hufnagel, Lorenz; Canton, Jacopo; Merzari, E.; Marin, O.; Örlü, Ramis	Swirl Switching in bent pipes studied by numerical simulation	Konferensbidrag		10th International Symposium on Turbulence and Shear Flow Phenomena, TSFP 2017, Swissotel ChicagoChicago, United States, 6 July 2017 through 9 July 2017				2017
Negi, Prabal; Schlatter, Philipp; Henningson, Dan	A re-examination of filter-based stabilization for spectral-element methods	Rapport						2017
Negi, Prabal; Hanifi, Ardeshir; Henningson, Dan	Dynamic response of laminar flow airfoils	Rapport						2017
Örlü, Ramis; Vinuesa, Ricardo; Vila, C. S.; DIscetti, S.; Ianiro, A.; Schlatter, Philipp	Towards canonical adverse-pressure-gradient turbulent boundary layers	Konferensbidrag		10th International Symposium on Turbulence and Shear Flow Phenomena, TSFP 2017, Swissotel ChicagoChicago, United States, 6 July 2017 through 9 July 2017	3			2017
Marin, O.; Merzari, E.; Schlatter, Philipp; Siegel, A.	Proper orthogonal decomposition on compressed data	Konferensbidrag		10th International Symposium on Turbulence and Shear Flow Phenomena, TSFP 2017, Swissotel, Chicago, United States, 6 July 2017 through 9 July 2017	1			2017
Negi, Prabal Singh; Vinuesa, Ricardo; Schlatter, Philipp; Hanifi, Ardeshir; Henningson, Dan	Unsteady aerodynamic effects in pitching airfoils studied through large-eddy simulations	Konferensbidrag		10th International Symposium on Turbulence and Shear Flow Phenomena, TSFP 2017, Swissotel ChicagoChicago, United States, 6 July 2017 through 9 July 2017	1			2017
Brynjell-Rahkola, Mattias; Barman, Emelie; Hanifi, Ardeshir; Henningson, Dan S.	On the stability of a Blasius boundary layer subject to localized suction	Rapport						2017
Brynjell-Rahkola, Mattias; Henningson, Dan S.	A note on the numerical realization of helical vortices: application to vortex instability	Rapport						2017
Rosti, ME, Brandt, L,	Numerical simulation of turbulent channel flow over a viscous hyper-elastic wall	Article	JOURNAL OF FLUID MECHANICS		830		708-735	2017

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Peng, Ivy Bo; Markidis, Stefano; Gioiosa, Roberto; Kestor, Gokcen; Laure, Erwin	MPI Streams for HPC Applications	Kapitel i bok, del av antologi		New Frontiers in High Performance Computing and Big Data				2017
Vinuesa, Ricardo; Negi, Prabal Singh; Hanifi, Ardeshir; Henningson, Dan S.; Schlatter, Philipp	High-fidelity simulations of the flow around wings at high reynolds numbers	Konferensbidrag	10th International Sympo	10th International Symposium on Turbulence and Shear Flow Phenomena, TSFP 2017, Swissotel Chicago, United States, 6 July 2017 through 9 July 2017	2			2017
Zhang, C.; Kjellström, Hedvig; Mandt, S.	Determinantal point processes for mini-batch diversification	Konferensbidrag	Uncertainty in Artificial In	33rd Conference on Uncertainty in Artificial Intelligence, UAI 2017, Sydney, Australia, 11 August 2017 through 15 August 2017				2017
Gaaf, SW , Jarlebring, E,	THE INFINITE BI-LANCZOS METHOD FOR NONLINEAR EIGENVALUE PROBLEMS	Article	SIAM JOURNAL ON SCIENTIFIC COMPUTING		39	5	S898-S919	2017
Jarlebring, Elias; Koskela, Antti; Mele, Giampaolo	Disguised and new quasi-Newton methods for nonlinear eigenvalue problems	Artikel i tidskrift	Numerical Algorithms					2017
Bobke, Alexandra; Vinuesa, Ricardo; Örlü, Ramis; Schlatter, Philipp	History effects and near equilibrium in adverse-pressure-gradient turbulent boundary layers	Artikel i tidskrift	Journal of Fluid Mechanics		820		667-692	2017
Bergqvist, Lars; Eriksson, Olle; Bergman, Anders; Hellsvik, John	Atomistic Spin Dynamics : Foundations and Applications	Bok						2017
Zhang, Y.; Beskow, Jonas; Kjellström, Hedvig	Look but Don-™t Stare : Mutual Gaze Interaction in Social Robots	Konferensbidrag	9th International Conferer	9th International Conference on Social Robotics, ICSR 2017, Tsukuba, Japan, 22 November 2017 through 24 November 2017	10652		556-566	2017
Rivas-Gomez, S , Markidis, S , Peng, IB , Laure, E , Kestor, G , Gioiosa, R ,	Extending Message Passing Interface Windows to Storage	Proceedings Paper	2017 17TH IEEE/ACM INTERNATIONAL SYMPOSIUM ON CLUSTER, CLOUD AND GRID COMPUTING (CCGRID)				727-730	2017
Ismail, M , Niazi, S , Ronstrom, M , Haridi, S , Dowling, J ,	Scaling HDFS to more than 1 million operations per second with HopsFS	Proceedings Paper	2017 17TH IEEE/ACM INTERNATIONAL SYMPOSIUM ON CLUSTER, CLOUD AND GRID COMPUTING (CCGRID)				683-688	2017
Balbi, P , Massobrio, P , Kotaleskim, JH ,	A single Markov-type kinetic model accounting for the macroscopic currents of all human voltage-gated sodium channel isoforms	Article	PLOS COMPUTATIONAL BIOLOGY		13	9	-	2017
Straub, S , Vinuesa, R , Schlatter, P , Frohnapfel, B , Gatti, D ,	Turbulent Duct Flow Controlled with Spanwise Wall Oscillations	Article	FLOW TURBULENCE AND COMBUSTION		99	04-Mar	787-806	2017
Vinuesa, R , Orlu, R , Vila, CS , Ianiro, A , Discetti, S , Schlatter, P ,	Revisiting History Effects in Adverse-Pressure-Gradient Turbulent Boundary Layers	Article	FLOW TURBULENCE AND COMBUSTION		99	04-Mar	565-587	2017
Chin, C , Orlu, R , Schlatter, P , Monty, J , Hutchins, N ,	Influence of a Large-Eddy-Breakup-Device on the Turbulent Interface of Boundary Layers	Article	FLOW TURBULENCE AND COMBUSTION		99	04-Mar	823-835	2017
Butepage, J , Black, MJ , Kragic, D , Kjellstrom, H ,	Deep representation learning for human motion prediction and classification	Proceedings Paper	30TH IEEE CONFERENCE ON COMPUTER VISION AND PATTERN RECOGNITION (CVPR 2017)				1591-1599	2017
Kumar, A , Pan, F , Husain, S , Akansel, S , Brucas, R , Bergqvist, L , Chaudhary, S , Svedlindh, P ,	Temperature-dependent Gilbert damping of Co2FeAl thin films with different degree of atomic order	Article	PHYSICAL REVIEW B		96	22	-	2017
Belic, Jovana; Kumar, Arvind; Hellgren Kotaleski, Jeanette	The role of striatal feedforward inhibition in propagation of cortical oscillations	Artikel i tidskrift	BMC neuroscience (Online)	CNS 2017	18		91-91	2017
Du, K.; Wu, Y. -W; Lindroos, R.; Liu, Y.; Rózsa, B.; Katona, G.; Ding, J. B.; Hellgren Kotaleski, Jeanette; bDepartment of Neuroscience, Karolinska Institute, 171 77 Solna)	Cell-type-specific inhibition of the dendritic plateau potential in striatal spiny projection neurons	Artikel i tidskrift	Proceedings of the National Academy of Sciences of the United States of America		114	36	E7612-E7621	2017
Fouxon, I , Ge, ZY , Brandt, L , Leshansky, A ,	Integral representation of channel flow with interacting particles	Article	PHYSICAL REVIEW E		96	6	-	2017
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Toth, G , Chen, YX , Gombosi, TI , Cassak, P , Markidis, S , Peng, IB ,	Scaling the Ion Inertial Length and Its Implications for Modeling Reconnection in Global Simulations	Article	JOURNAL OF GEOPHYSICAL RESEARCH-SPACE PHYSICS		122	10	10336-10355	2017
Rinaldi, Enrico; Patel, S.; Schlatter, Philipp; Pecnik, R.	Linear stability of buffer layer streaks in turbulent channels with variable density and viscosity	Artikel i tidskrift	Physical Review Fluids		2	11		2017
Spjuth, O , Karlsson, A , Clements, M , Humphreys, K , Ivansson, E , Dowling, J , Eklund, M , Jauhiainen, A , Czene, K , Gronberg, H , et al	E-Science technologies in a workflow for personalized medicine using cancer screening as a case study	Article	JOURNAL OF THE AMERICAN MEDICAL INFORMATICS ASSOCIATION		24	5	950-957	2017
Mahani, MR , Mirsakiyeva, A , Delin, A ,	Breakdown of Polarons in Conducting Polymers at Device Field Strengths	Article	JOURNAL OF PHYSICAL CHEMISTRY C		121	19	10317-10324	2017
Elgammal, K , Hugosson, HW , Smith, AD , Rasander, M , Bergqvist, L , Delin, A ,	Density functional calculations of graphene-based humidity and carbon dioxide sensors: effect of silica and sapphire substrates	Article	SURFACE SCIENCE		663		23-30	2017
Pan, F , Chico, J , Delin, A , Bergman, A , Bergqvist, L ,	Extended spin model in atomistic simulations of alloys	Article	PHYSICAL REVIEW B		95	18	-	2017
Peng, IB , Gioiosa, R , Kestor, G , Cicotti, P , Laure, E , Markidis, S ,	Exploring the Performance Benefit of Hybrid Memory System on HPC Environments	Proceedings Paper	2017 IEEE INTERNATIONAL PARALLEL AND DISTRIBUTED PROCESSING SYMPOSIUM WORKSHOPS (IPDPSW)				683-692	2017
Brynjell-Rahkola, M , Shahriari, N , Schlatter, P , Hanifi, A , Henningson, DS ,	Stability and sensitivity of a cross-flow-dominated Falkner-Skan-Cooke boundary layer with discrete surface roughness	Article	JOURNAL OF FLUID MECHANICS		826		830-850	2017
Brynjell-Rahkola, M , Tuckerman, LS , Schlatter, P , Henningson, DS ,	Computing Optimal Forcing Using Laplace Preconditioning	Article	COMMUNICATIONS IN COMPUTATIONAL PHYSICS		22	5	1508-1532	2017
Peng, IB , Gioiosa, R , Kestor, G , Cicotti, P , Laure, E , Markidis, S ,	RTHMS: A Tool for Data Placement on Hybrid Memory System	Proceedings Paper	ACM SIGPLAN NOTICES		52	9	82-91	2017
Saglietti, C , Schlatter, P , Monokrousos, A , Henningson, DS ,	Adjoint optimization of natural convection problems: differentially heated cavity	Article	THEORETICAL AND COMPUTATIONAL FLUID DYNAMICS		31	06-May	537-553	2017
Vinuesa, R , Hosseini, SM , Hanifi, A , Henningson, DS , Schlatter, P ,	Pressure-Gradient Turbulent Boundary Layers Developing Around a Wing Section	Article	FLOW TURBULENCE AND COMBUSTION		99	04-Mar	613-641	2017
Vila, CS , Orlu, R , Vinuesa, R , Schlatter, P , Ianiro, A , Discetti, S ,	Adverse-Pressure-Gradient Effects on Turbulent Boundary Layers: Statistics and Flow-Field Organization	Article	FLOW TURBULENCE AND COMBUSTION		99	04-Mar	589-612	2017
Fiebig, F , Lansner, A ,	A Spiking Working Memory Model Based on Hebbian Short-Term Potentiation	Article	JOURNAL OF NEUROSCIENCE		37	1	83-96	2017
Pouya, I , Pronk, S , Lundborg, M , Lindahl, E ,	Copernicus, a hybrid dataflow and peer-to-peer scientific computing platform for efficient large-scale ensemble sampling	Article	FUTURE GENERATION COMPUTER SYSTEMS-THE INTERNATIONAL JOURNAL OF ESCIENCE		71		18-31	2017
Ottosson, NE , Ejneby, MS , Wu, XY , Yazdi, S , Konradsson, P , Lindahl, E , Elinder, F ,	A drug pocket at the lipid bilayer-potassium channel interface	Article	SCIENCE ADVANCES		3	10	-	2017
Lambrix, P , Kaliyaperumal, R ,	A Session-based Ontology Alignment Approach enabling User Involvement	Article	SEMANTIC WEB		8	2	-	2017
Tasnadi, F , Lugovskoy, AV , Oden, M , Abrikosov, IA ,	Non-equilibrium vacancy formation energies in metastable alloys - A case study of Ti0.5Al0.5N	Article	MATERIALS & DESIGN		114		484-493	2017
Mukhamedov, BO , Ponomareva, AV , Abrikosov, IA ,	Spinodal decomposition in ternary Fe-Cr-Co system	Article	JOURNAL OF ALLOYS AND COMPOUNDS		695		250-256	2017
List, NH , Saue, T , Norman, P ,	Rotationally averaged linear absorption spectra beyond the electric-dipole approximation	Article	MOLECULAR PHYSICS		115	02-Jan	63-74	2017
Norby, MS , Vahtras, O , Norman, P , Kongsted, J ,	Assessing frequency-dependent site polarisabilities in linear response polarisable embedding	Article	MOLECULAR PHYSICS		115	02-Jan	39-47	2017
Sundvall, Erik; Wei-Kleiner, Fang; Freire, Sergio Miranda; Lambrix, Patrick	Querying archetype-based Electronic Health Records using Hadoop and Dewey encoding of openEHR models	Kapitel i bok, del av antologi		Informatics for Health: Connected Citizen-Led Wellness and Population Health			406-410	2017
Wang, F , Holec, D , Oden, M , Mucklich, F , Abrikosov, IA , Tasnadi, F ,	Systematic ab initio investigation of the elastic modulus in quaternary transition metal nitride alloys and their coherent multilayers	Article	ACTA MATERIALIA		127		124-132	2017
Volpi, R , Linares, M ,	Study of the cold charge transfer state separation at the TQ1/PC71BM interface	Article	JOURNAL OF COMPUTATIONAL CHEMISTRY		38	14	1039-1048	2017
Munjulury, RC , Najafabadi, HN , Safavi, E , Olvander, J , Krus, P , Karlsson, M ,	A comprehensive computational multidisciplinary design optimization approach for a tidal power plant turbine	Article	ADVANCES IN MECHANICAL ENGINEERING		9	3	-	2017
Leonov, I , Greenberg, E , Belov, MP , Rozenberg, GK , Abrikosov, IA ,	Mott transition and magnetic collapse in iron-bearing compounds under high pressure	Article	HIGH PRESSURE RESEARCH		37	2	96-118	2017
Weber, GH , Carpendale, S , Ebert, D , Fisher, B , Hagen, H , Shneiderman, B , Ynnerman, A ,	Apply or Die: On the Role and Assessment of Application Papers in Visualization	Article	IEEE COMPUTER GRAPHICS AND APPLICATIONS		37	3	96-104	2017

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Basu, S , Soderquist, F , Wallner, B ,	Proteus: a random forest classifier to predict disorder-to-order transitioning binding regions in intrinsically disordered proteins	Article	JOURNAL OF COMPUTER-AIDED MOLECULAR DESIGN		31	5	453 -466	2017
Tal, AA , Olovsson, W , Abrikosov, IA ,	Origin of the core-level binding energy shifts in Au nanoclusters	Article	PHYSICAL REVIEW B		95	24	-	2017
Berntsson, Fredrik; Karlsson, Matts; Kozlov, Vladimir; Nazarov, Sergey A.	A one-dimensional model of a false aneurysm	Artikel i tidskrift	International Journal of Research in Engineering and Science (IJRES)		5	6	61 -73	2017
Torggler, M , Keller, J , Kessler, C ,	Asymmetric Crown Scheduling	Proceedings Paper	2017 25TH EUROMICRO INTERNATIONAL CONFERENCE ON PARALLEL, DISTRIBUTED AND NETWORK-BASED PROCESSING (PDP 2017)				421 -425	2017
Aschebrock, T , Armiento, R , Kummel, S ,	Orbital nodal surfaces: Topological challenges for density functionals	Article	PHYSICAL REVIEW B		95	24	-	2017
Mirabello, C , Wallner, B ,	InterPred: A pipeline to identify and model protein-protein interactions	Article	PROTEINS-STRUCTURE FUNCTION AND BIOINFORMATICS		85	6	1159 -1170	2017
Shtepliuk, I , Caffrey, NM , Iakimov, T , Khranovskyy, V , Abrikosov, IA , Yakimova, R ,	On the interaction of toxic Heavy Metals (Cd, Hg, Pb) with graphene quantum dots and infinite graphene	Article	SCIENTIFIC REPORTS		7		-	2017
Axelsson, E , Costa, J , Silva, C , Emmart, C , Bock, A , Ynnerman, A,	Dynamic Scene Graph: Enabling Scaling, Positioning, and Navigation in the Universe	Article	COMPUTER GRAPHICS FORUM		36	3	459 -468	2017
Dragisic, Z , Ivanova, V , Li, HY , Lambrix, P ,	Experiences from the anatomy track in the ontology alignment evaluation initiative	Review	JOURNAL OF BIOMEDICAL SEMANTICS		8		-	2017
Andresen, C , Niklasson, M , Eklof, SC , Wallner, B , Lundstrom, P ,	Biophysical characterization of the calmodulin-like domain of Plasmodium falciparum calcium dependent protein kinase 3	Article	PLOS ONE		12	7	-	2017
Wallenhammar, A , Anandapadamanaban, M , Lemak, A , Mirabello, C , Lundstrom, P , Wallner, B , Sunnerhagen, M	Solution NMR structure of the TRIM21 B-box2 and identification of residues involved in its interaction with the RING domain	Article	PLOS ONE		12	7	-	2017
Fashandi, H , Dahlqvist, M , Lu, J , Palisaitis, J , Simak, SI , Abrikosov, IA , Rosen, J , Hultman, L , Andersson, M , Spetz, AL , et al	Synthesis of Ti3AuC2, Ti3Au2C2 and Ti3IrC2 by noble metal substitution reaction in Ti3SiC2 for high-temperature-stable Ohmic contacts to SiC	Article	NATURE MATERIALS		16	8	814 -818	2017
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Pourovskii, LV , Mravlje, J , Georges, A , Simak, SI , Abrikosov, IA ,	Electron-electron scattering and thermal conductivity of epsilon-iron at Earth's core conditions	Article	NEW JOURNAL OF PHYSICS		19		-	2017
Aschebrock, T , Armiento, R , Kummel, S ,	Challenges for semilocal density functionals with asymptotically nonvanishing potentials	Article	PHYSICAL REVIEW B		96	7	-	2017
Kost, Henning; Homeyer, André; Molin, Jesper; Lundström, Claes; Hahn, Horst	Training Nuclei Detection Algorithms with Simple Annotations	Artikel i tidskrift	Journal of Pathology Informatics		8			2017
Lundström, Claes; Waltersson, Marie; Persson, Anders; Treanor, Darren	Summary of the 4th Nordic Symposium on Digital Pathology	Artikel i tidskrift	Journal of Pathology Informatics		8			2017
Leonov, I , Ponomareva, AV , Nazarov, R , Abrikosov, IA ,	Pressure-induced spin-state transition of iron in magnesiowustite (Fe,Mg)O	Article	PHYSICAL REVIEW B		96	7	-	2017
Lundstrom, CF , Gilmore, HL , Ros, PR ,	Integrated Diagnostics: The Computational Revolution Catalyzing Cross-disciplinary Practices in Radiology, Pathology, and Genomics	Editorial Material	RADIOLOGY		285	1	15 -Dec	2017
Ivanova, Valentina; Lambrix, Patrick; Lohmann, Steffen; Pesquita, Catia	VOILA! 2017: Proceedings of the Third International Workshop on Visualization and Interaction for Ontologies and Linked Data : co-located with the 16th International Semantic Web Conference, Vienna, Austria, October 22, 2017.	Proceedings (redaktörskap)		Third International Workshop on Visualization and Interaction for Ontologies and Linked Data				2017
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Ivanova, Valentina; Bach, Benjamin; Pietriga, Emmanuel; Lambrix, Patrick	Alignment Cubes: Interactive Visual Exploration and Evaluation of Multiple Ontology Alignments	Konferensbidrag		Proceedings of the ISWC 2(ISWC 2017 Posters & Demonstrations and Industry Tracks				2017
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Gustafsson, Torsten; Engelke, Wito; Englund, Rickard; Hotz, Ingrid	Concepts of Hybrid Data Rendering	Konferensbidrag		Proceedings of SIGRAD 20!SIGRAD 2017, August 17-18, 2017 Norrköping, Sweden	143		32 -39	2017
Sundén, Erik; Lundgren, Ingemar; Ynnerman, Anders	Hybrid Virtual Reality Touch Table : An immersive collaborative platform for public explanatory use of cultural objects and sites.	Konferensbidrag		GCH'17 proceedings, EURC 15th Eurographics Workshop on Graphics and Cultural Heritage, Graz, Austria, September 27-29, 2017				2017
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Lantz, Jonas; Gupta, Vikas; Henriksson, Lilian; Karlsson, Matts; Persson, Anders; Carlhäll, Carljohan; Ebbers, Tino	First Results of CT-derived Cardiac 4D Blood Flow - Comparison With 4D Flow MRI	Konferensbidrag		RSNA 2017, 103rd Scientific Assembly and Annual Meeting, Nov 26-Dec 1, Chicago, USA				2017
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