

Ian Foster

List of Publications by Year in descending order

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417
papers

42,556
citations

13865

67
h-index

5393

164
g-index

460
all docs

460
docs citations

460
times ranked

22152
citing authors

#	ARTICLE	IF	CITATIONS
1	Improving I/O Performance for Exascale Applications Through Online Data Layout Reorganization. IEEE Transactions on Parallel and Distributed Systems, 2022, 33, 878-890.	5.6	10
2	Data-Driven Cloud Clustering via a Rotationally Invariant Autoencoder. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-25.	6.3	7
3	The Exascale Framework for High Fidelity coupled Simulations (EFFIS): Enabling whole device modeling in fusion science. International Journal of High Performance Computing Applications, 2022, 36, 106-128.	3.7	11
4	High-Throughput Virtual Screening and Validation of a SARS-CoV-2 Main Protease Noncovalent Inhibitor. Journal of Chemical Information and Modeling, 2022, 62, 116-128.	5.4	54
5	MemXCT: Design, Optimization, Scaling, and Reproducibility of X-Ray Tomography Imaging. IEEE Transactions on Parallel and Distributed Systems, 2022, 33, 2014-2031.	5.6	3
6	Deep Neural Network Training with Distributed K-FAC. IEEE Transactions on Parallel and Distributed Systems, 2022, , 1-1.	5.6	0
7	Braid-DB: Toward AI-Driven Science with Machine Learning Provenance. Communications in Computer and Information Science, 2022, , 247-261.	0.5	3
8	<i>BraggNN</i>: fast X-ray Bragg peak analysis using deep learning. IUCr, 2022, 9, 104-113.	2.2	19
9	Efficient high-dimensional variational data assimilation with machine-learned reduced-order models. Geoscientific Model Development, 2022, 15, 3433-3445.	3.6	4
10	A Combined Machine Learning and High-Energy X-ray Diffraction Approach to Understanding Liquid and Amorphous Metal Oxides. Journal of the Physical Society of Japan, 2022, 91, .	1.6	7
11	Improving the Accuracy of Composite Methods: A G4MP2 Method with G4-like Accuracy and Implications for Machine Learning. Journal of Physical Chemistry A, 2022, 126, 4528-4536.	2.5	3
12	End-to-end online performance data capture and analysis for scientific workflows. Future Generation Computer Systems, 2021, 117, 387-400.	7.5	13
13	Translating the grid: How a translational approach shaped the development of grid computing. Journal of Computational Science, 2021, 52, 101214.	2.9	4
14	DLHub: Simplifying publication, discovery, and use of machine learning models in science. Journal of Parallel and Distributed Computing, 2021, 147, 64-76.	4.1	17
15	Enabling deeper learning on big data for materials informatics applications. Scientific Reports, 2021, 11, 4244.	3.3	29
16	Automated Development of Molten Salt Machine Learning Potentials: Application to LiCl. Journal of Physical Chemistry Letters, 2021, 12, 4278-4285.	4.6	26
17	2â€²-O methylation of RNA cap in SARS-CoV-2 captured by serial crystallography. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	46
18	Graph-Based Approaches for Predicting Solvation Energy in Multiple Solvents: Open Datasets and Machine Learning Models. Journal of Physical Chemistry A, 2021, 125, 5990-5998.	2.5	10

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19	Online data analysis and reduction: An important Co-design motif for extreme-scale computers. International Journal of High Performance Computing Applications, 2021, 35, 617-635.	3.7	6
20	Design and Evaluation of a Simple Data Interface for Efficient Data Transfer across Diverse Storage. ACM Transactions on Modeling and Performance Evaluation of Computing Systems, 2021, 6, 1-25.	0.9	5
21	Coding the Computing Continuum: Fluid Function Execution in Heterogeneous Computing Environments. , 2021, , .		14
22	Models and Processes to Extract Drug-like Molecules From Natural Language Text. Frontiers in Molecular Biosciences, 2021, 8, 636077.	3.5	1
23	3d Autoencoders For Feature Extraction In X-Ray Tomography. , 2021, , .		3
24	Autonomous experimentation systems for materials development: A community perspective. Matter, 2021, 4, 2702-2726.	10.0	143
25	Co-design Center for Exascale Machine Learning Technologies (ExaLearn). International Journal of High Performance Computing Applications, 2021, 35, 598-616.	3.7	6
26	FTK: A Simplicial Spacetime Meshing Framework for Robust and Scalable Feature Tracking. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 3463-3480.	4.4	7
27	Challenges and Advances in Information Extraction from Scientific Literature: a Review. Jom, 2021, 73, 3383-3400.	1.9	11
28	Bootstrapping in-situ workflow auto-tuning via combining performance models of component applications. , 2021, , .		7
29	Open-source Software Sustainability Models: Initial White Paper From the Informatics Technology for Cancer Research Sustainability and Industry Partnership Working Group. Journal of Medical Internet Research, 2021, 23, e20028.	4.3	2
30	A Serverless Framework for Distributed Bulk Metadata Extraction. , 2021, , .		9
31	Climate impacts on global agriculture emerge earlier in new generation of climate and crop models. Nature Food, 2021, 2, 873-885.	14.0	263
32	Fast and accurate learned multiresolution dynamical downscaling for precipitation. Geoscientific Model Development, 2021, 14, 6355-6372.	3.6	21
33	KAISA. , 2021, , .		9
34	Bridging Data Center AI Systems with Edge Computing for Actionable Information Retrieval. , 2021, , .		13
35	Understanding Effectiveness of Multi-Error-Bounded Lossy Compression for Preserving Ranges of Interest in Scientific Analysis. , 2021, , .		0
36	Colmena: Scalable Machine-Learning-Based Steering of Ensemble Simulations for High Performance Computing. , 2021, , .		20

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37	Uncertainty-Informed Deep Transfer Learning of Perfluoroalkyl and Polyfluoroalkyl Substance Toxicity. Journal of Chemical Information and Modeling, 2021, 61, 5793-5803.	5.4	12
38	Optimizing Multi-Range based Error-Bounded Lossy Compression for Scientific Datasets. , 2021, , .		2
39	Using the FACE-IT portal and workflow engine for operational food quality prediction and assessment: An application to mussel farms monitoring in the Bay of Napoli, Italy. Future Generation Computer Systems, 2020, 110, 453-467.	7.5	13
40	Prevalence of Inherited Mutations in Breast Cancer Predisposition Genes among Women in Uganda and Cameroon. Cancer Epidemiology Biomarkers and Prevention, 2020, 29, 359-367.	2.5	36
41	Atlas of Transcription Factor Binding Sites from ENCODE DNase Hypersensitivity Data across 27 Tissue Types. Cell Reports, 2020, 32, 108029.	6.4	28
42	Exascale applications: skin in the game. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190056.	3.4	53
43	Crowd-Sourced Data and Analysis Tools for Advancing the Chemical Vapor Deposition of Graphene: Implications for Manufacturing. ACS Applied Nano Materials, 2020, 3, 10144-10155.	5.0	5
44	A regional nuclear conflict would compromise global food security. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 7071-7081.	7.1	63
45	SciNER: Extracting Named Entities from Scientific Literature. Lecture Notes in Computer Science, 2020, , 308-321.	1.3	8
46	Convolutional Neural Network Training with Distributed K-FAC. , 2020, , .		11
47	funcX: A Federated Function Serving Fabric for Science. , 2020, , .		94
48	Characterization and identification of HPC applications at leadership computing facility. , 2020, , .		12
49	Feature-preserving Lossy Compression for In Situ Data Analysis. , 2020, , .		6
50	TomoGAN: low-dose synchrotron x-ray tomography with generative adversarial networks: discussion. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2020, 37, 422.	1.5	79
51	OAuth SSH with Globus Auth. , 2020, , .		3
52	An Open Ecosystem for Pervasive Use of Persistent Identifiers. , 2020, , .		5
53	Parsl. , 2019, , .		138
54	IRNet. , 2019, , .		23

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55	Publishing and Serving Machine Learning Models with DLHub. , 2019, , .		4
56	Petrel. , 2019, , .		7
57	Machine learning prediction of accurate atomization energies of organic molecules from low-fidelity quantum chemical calculations. MRS Communications, 2019, 9, 891-899.	1.8	38
58	Building a Wide-Area File Transfer Performance Predictor: An Empirical Study. Lecture Notes in Computer Science, 2019, , 56-78.	1.3	1
59	Reproducible big data science: A case study in continuous FAIRness. PLoS ONE, 2019, 14, e0213013.	2.5	29
60	Throughput Analytics of Data Transfer Infrastructures. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 20-40.	0.3	5
61	Data automation at light sources. AIP Conference Proceedings, 2019, , .	0.4	8
62	A Codesign Framework for Online Data Analysis and Reduction. , 2019, , .		11
63	Scientific Image Restoration Anywhere. , 2019, , .		9
64	Deep Learning Accelerated Light Source Experiments. , 2019, , .		14
65	ParaOpt: Automated Application Parameterization and Optimization for the Cloud. , 2019, , .		8
66	Serverless Science for Simple, Scalable, and Shareable Scholarship. , 2019, , .		2
67	DLHub: Model and Data Serving for Science. , 2019, , .		36
68	A data ecosystem to support machine learning in materials science. MRS Communications, 2019, 9, 1125-1133.	1.8	112
69	Workflow-based automatic processing for Internet of Floating Things crowdsourced data. Future Generation Computer Systems, 2019, 94, 103-119.	7.5	15
70	HACC Cosmological Simulations: First Data Release. Astrophysical Journal, Supplement Series, 2019, 244, 17.	7.7	17
71	StormSeeker: A Machine-Learning-Based Mediterranean Storm Tracer. Lecture Notes in Computer Science, 2019, , 444-456.	1.3	3
72	Towards High Performance Data Analytics for Climate Change. Lecture Notes in Computer Science, 2019, , 240-257.	1.3	2

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73	Scalable pCT Image Reconstruction Delivered as a Cloud Service. IEEE Transactions on Cloud Computing, 2018, 6, 182-195.	4.4	15
74	Research Infrastructure for the Safe Analysis of Sensitive Data. Annals of the American Academy of Political and Social Science, 2018, 675, 102-120.	1.6	19
75	Advance reservation access control using software-defined networking and tokens. Future Generation Computer Systems, 2018, 79, 225-234.	7.5	12
76	Scaling Deep Learning for Cancer with Advanced Workflow Storage Integration. , 2018, , .		12
77	Coupling Exascale Multiphysics Applications: Methods and Lessons Learned. , 2018, , .		20
78	Profiling and Predicting Application Performance on the Cloud. , 2018, , .		15
79	Strategies for accelerating the adoption of materials informatics. MRS Bulletin, 2018, 43, 683-689.	3.5	29
80	DYNAMO: Distributed Leisure Yacht-Carried Sensor-Network for Atmosphere and Marine Data Crowdsourcing Applications. , 2018, , .		17
81	Matminer: An open source toolkit for materials data mining. Computational Materials Science, 2018, 152, 60-69.	3.0	446
82	Toward a smart data transfer node. Future Generation Computer Systems, 2018, 89, 10-18.	7.5	14
83	Can machine learning identify the next high-temperature superconductor? Examining extrapolation performance for materials discovery. Molecular Systems Design and Engineering, 2018, 3, 819-825.	3.4	149
84	Globus Platform Services for Data Publication. , 2018, , .		20
85	Transferring a petabyte in a day. Future Generation Computer Systems, 2018, 88, 191-198.	7.5	28
86	Performance, Resilience, and Security in Moving Data from the Fog to the Cloud: The DYNAMO Transfer Framework Approach. Lecture Notes in Computer Science, 2018, , 197-208.	1.3	6
87	The Modern Research Data Portal: a design pattern for networked, data-intensive science. PeerJ Computer Science, 2018, 4, e144.	4.5	24
88	BioWorkbench: a high-performance framework for managing and analyzing bioinformatics experiments. PeerJ, 2018, 6, e5551.	2.0	11
89	Brief history of agricultural systems modeling. Agricultural Systems, 2017, 155, 240-254.	6.1	403
90	Trace: a high-throughput tomographic reconstruction engine for large-scale datasets. Advanced Structural and Chemical Imaging, 2017, 3, 6.	4.0	22

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91	Machine learning algorithms for modeling groundwater level changes in agricultural regions of the U.S.. Water Resources Research, 2017, 53, 3878-3895.	4.2	256
92	Software Defined Cyberinfrastructure. , 2017, , .		7
93	Globus. , 2017, , .		12
94	Explaining Wide Area Data Transfer Performance. , 2017, , .		26
95	Skluma. , 2017, , .		7
96	Globus. , 2017, , .		8
97	Toward a new generation of agricultural system data, models, and knowledge products: State of agricultural systems science. Agricultural Systems, 2017, 155, 269-288.	6.1	261
98	Towards a new generation of agricultural system data, models and knowledge products: Information and communication technology. Agricultural Systems, 2017, 155, 200-212.	6.1	143
99	Towards a Hybrid Human-Computer Scientific Information Extraction Pipeline. , 2017, , .		18
100	Computing Just What You Need: Online Data Analysis and Reduction at Extreme Scales. , 2017, , .		44
101	Real-Time Data Analysis and Autonomous Steering of Synchrotron Light Source Experiments. , 2017, , .		21
102	A Mathematical Programming- and Simulation-Based Framework to Evaluate Cyberinfrastructure Design Choices. , 2017, , .		9
103	Processing of crowd-sourced data from an internet of floating things. , 2017, , .		6
104	Predictive Big Data Analytics: A Study of Parkinsonâ€™s Disease Using Large, Complex, Heterogeneous, Incongruent, Multi-Source and Incomplete Observations. PLoS ONE, 2016, 11, e0157077.	2.5	94
105	Optimization of tomographic reconstruction workflows on geographically distributed resources. Journal of Synchrotron Radiation, 2016, 23, 997-1005.	2.4	11
106	An Ensemble-Based Recommendation Engine for Scientific Data Transfers. , 2016, , .		1
107	I'll take that to go: Big data bags and minimal identifiers for exchange of large, complex datasets. , 2016, , .		33
108	Globus auth: A research identity and access management platform. , 2016, , .		43

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109	Measurement-based performance profiles and dynamics of UDT over dedicated connections. , 2016, , .		1
110	Improving Data Transfer Throughput with Direct Search Optimization. , 2016, , .		6
111	Blending Education and Polymer Science: Semiautomated Creation of a Thermodynamic Property Database. Journal of Chemical Education, 2016, 93, 1561-1568.	2.3	17
112	Globus. , 2016, , .		33
113	A Hybrid Human-computer Approach to the Extraction of Scientific Facts from the Literature. Procedia Computer Science, 2016, 80, 386-397.	2.0	18
114	Data publication with the structural biology data grid supports live analysis. Nature Communications, 2016, 7, 10882.	12.8	113
115	Integrative genomics analyses unveil downstream biological effectors of disease-specific polymorphisms buried in intergenic regions. Npj Genomic Medicine, 2016, 1, .	3.8	19
116	The Materials Data Facility: Data Services to Advance Materials Science Research. Jom, 2016, 68, 2045-2052.	1.9	215
117	WaComM: A Parallel Water Quality Community Model for Pollutant Transport and Dispersion Operational Predictions. , 2016, , .		22
118	An in-memory based framework for scientific data analytics. , 2016, , .		11
119	The Discovery Cloud: Accelerating and Democratizing Research on a Global Scale. , 2016, , .		5
120	Globus Nexus: A Platform-as-a-Service provider of research identity, profile, and group management. Future Generation Computer Systems, 2016, 56, 571-583.	7.5	29
121	A community-oriented workflow reuse and recommendation technique. International Journal of Business Process Integration and Management, 2015, 7, 197.	0.0	0
122	Big Data Remote Access Interfaces for Light Source Science. , 2015, , .		10
123	FACE@IT: A science gateway for food security research. Concurrency Computation Practice and Experience, 2015, 27, 4423-4436.	2.2	25
124	The Globus Galaxies platform: delivering science gateways as a service. Concurrency Computation Practice and Experience, 2015, 27, 4344-4360.	2.2	40
125	The Global Gridded Crop Model Intercomparison: data and modeling protocols for Phase 1 (v1.0). Geoscientific Model Development, 2015, 8, 261-277.	3.6	190
126	Toward Interlanguage Parallel Scripting for Distributed-Memory Scientific Computing. , 2015, , .		2

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127	Choosing experiments to accelerate collective discovery. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14569-14574.	7.1	146
128	Globus Data Publication as a Service: Lowering Barriers to Reproducible Science. , 2015, , .		34
129	Cost-Aware Cloud Provisioning. , 2015, , .		35
130	Globus platform as a service for collaborative science applications. Concurrency Computation Practice and Experience, 2015, 27, 290-305.	2.2	46
131	Big biomedical data as the key resource for discovery science. Journal of the American Medical Informatics Association: JAMIA, 2015, 22, 1126-1131.	4.4	70
132	Zodiac: A Comprehensive Depiction of Genetic Interactions in Cancer by Integrating TCGA Data. Journal of the National Cancer Institute, 2015, 107, .	6.3	27
133	Jetstream. , 2015, , .		13
134	Cost-Aware Elastic Cloud Provisioning for Scientific Workloads. , 2015, , .		22
135	Efficient and Secure Transfer, Synchronization, and Sharing of Big Data. IEEE Cloud Computing, 2014, 1, 46-55.	3.9	70
136	XSEDE: Accelerating Scientific Discovery. Computing in Science and Engineering, 2014, 16, 62-74.	1.2	2,790
137	Language Features for Scalable Distributed-Memory Dataflow Computing. , 2014, , .		12
138	Globus Nexus: Research Identity, Profile, and Group Management as a Service. , 2014, , .		4
139	Constraints and potentials of future irrigation water availability on agricultural production under climate change. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3239-3244.	7.1	795
140	Compiler Techniques for Massively Scalable Implicit Task Parallelism. , 2014, , .		31
141	NCI Workshop Report: Clinical and Computational Requirements for Correlating Imaging Phenotypes with Genomics Signatures. Translational Oncology, 2014, 7, 556-569.	3.7	69
142	Evaluating the utility of dynamical downscaling in agricultural impacts projections. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8776-8781.	7.1	68
143	Ophidia: A full software stack for scientific data analytics. , 2014, , .		12
144	Experiences building Globus Genomics: a next-generation sequencing analysis service using Galaxy, Globus, and Amazon Web Services. Concurrency Computation Practice and Experience, 2014, 26, 2266-2279.	2.2	60

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145	â€N-of-1<i>pathways</i>â€™ unveils personal deregulated mechanisms from a single pair of RNA-Seq samples: towards precision medicine. Journal of the American Medical Informatics Association: JAMIA, 2014, 21, 1015-1025.	4.4	42
146	Cloud-based bioinformatics workflow platform for large-scale next-generation sequencing analyses. Journal of Biomedical Informatics, 2014, 49, 119-133.	4.3	64
147	The parallel system for integrating impact models and sectors (pSIMS). Environmental Modelling and Software, 2014, 62, 509-516.	4.5	101
148	Big Data Staging with MPI-IO for Interactive X-ray Science. , 2014, , .		9
149	Ophidia: Toward Big Data Analytics for eScience. Procedia Computer Science, 2013, 18, 2376-2385.	2.0	45
150	Unilateral Carbon Taxes, Border Tax Adjustments and Carbon Leakage. Theoretical Inquiries in Law, 2013, 14, .	0.3	5
151	Experiences in building a next-generation sequencing analysis service using galaxy, globus online and Amazon web service. , 2013, , .		14
152	Distributed tools deployment and management for multiple galaxy instances in globus genomics. , 2013, , .		0
153	Provenance traces of the swift parallel scripting system. , 2013, , .		3
154	MTC envelope. , 2013, , .		4
155	Turbine: A Distributed-memory Dataflow Engine for High Performance Many-task Applications. Fundamenta Informaticae, 2013, 128, 337-366.	0.4	23
156	Globus Nexus: An identity, profile, and group management platform for science gateways and other collaborative science applications. , 2013, , .		21
157	Addressing data access needs of the long-tail distribution of geoscientists. , 2012, , .		5
158	Design and analysis of data management in scalable parallel scripting. , 2012, , .		14
159	Shining Light into Black Boxes. Science, 2012, 336, 159-160.	12.6	154
160	MTCProv: a practical provenance query framework for many-task scientific computing. Distributed and Parallel Databases, 2012, 30, 351-370.	1.6	21
161	Software as a service for data scientists. Communications of the ACM, 2012, 55, 81-88.	4.5	188
162	Deploying Bioinformatics Workflows on Clouds with Galaxy and Globus Provision. , 2012, , .		17

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163	SOLE: Linking Research Papers with Science Objects. Lecture Notes in Computer Science, 2012, , 203-208.	1.3	17
164	ServiceMap: Providing Map and GPS Assistance to Service Composition in Bioinformatics. , 2011, , .		20
165	Toward Semantics Empowered Biomedical Web Services. , 2011, , .		16
166	Providing Map and GPS Assistance to Service Composition in Bioinformatics. , 2011, , .		7
167	Recommend-As-You-Go: A Novel Approach Supporting Services-Oriented Scientific Workflow Reuse. , 2011, , .		63
168	Reshaping Text Data for Efficient Processing on Amazon EC2. Scientific Programming, 2011, 19, 133-145.	0.7	2
169	Message from the chairpersons. , 2011, , .		0
170	Enabling collaborative research using the Biomedical Informatics Research Network (BIRN). Journal of the American Medical Informatics Association: JAMIA, 2011, 18, 416-422.	4.4	56
171	Swift: A language for distributed parallel scripting. Parallel Computing, 2011, 37, 633-652.	2.1	319
172	Globus Online: Accelerating and Democratizing Science through Cloud-Based Services. IEEE Internet Computing, 2011, 15, 70-73.	3.3	231
173	Editorsâ€™ Message. Journal of Grid Computing, 2011, 9, 1-2.	3.9	3
174	Provenance management in Swift. Future Generation Computer Systems, 2011, 27, 775-780.	7.5	17
175	Moving huge scientific datasets over the Internet. Concurrency Computation Practice and Experience, 2011, 23, 2404-2420.	2.2	2
176	AME. , 2011, , .		11
177	A distributed look-up architecture for text mining applications using mapreduce. , 2011, 2011, , .		7
178	Managed GridFTP. , 2011, , .		5
179	Improving the efficiency of subset queries on raster images. , 2011, , .		4
180	Exploring provenance in high performance scientific computing. , 2011, , .		5

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181	In search of simplicity: a self-organizing group communication overlay. Concurrency Computation Practice and Experience, 2010, 22, 788-815.	2.2	0
182	A comparison of using Taverna and BPEL in building scientific workflows: the case of caGrid. Concurrency Computation Practice and Experience, 2010, 22, 1098-1117.	2.2	13
183	CIM-EARTH: Framework and Case Study. B E Journal of Economic Analysis and Policy, 2010, 10, .	0.9	5
184	Middleware support for many-task computing. Cluster Computing, 2010, 13, 291-314.	5.0	35
185	Network Analysis of Scientific Workflows: A Gateway to Reuse. Computer, 2010, 43, 54-61.	1.1	68
186	CaGrid Workflow Toolkit: A taverna based workflow tool for cancer grid. BMC Bioinformatics, 2010, 11, 542.	2.6	29
187	Global-scale distributed I/O with ParaMEDIC. Concurrency Computation Practice and Experience, 2010, 22, 2266-2281.	2.2	0
188	An adaptive strategy for scheduling data-intensive applications in Grid environments. , 2010, , .		3
189	NONUS: A No-Onus Platform for Generating Grant Reports. , 2010, , .		0
190	Trade and Carbon Taxes. American Economic Review, 2010, 100, 465-469.	8.5	155
191	Using Hybrid Grid/Cloud Computing Technologies for Environmental Data Elastic Storage, Processing, and Provisioning. , 2010, , 595-618.		11
192	Scheduling many-task workloads on supercomputers: Dealing with trailing tasks. , 2010, , .		19
193	GridFTP GUI: An Easy and Efficient Way to Transfer Data in Grid. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 57-66.	0.3	4
194	ADEM: Automating deployment and management of application software on the Open Science Grid. , 2009, , .		6
195	Wrap Scientific Applications as WSRF Grid Services Using gRAVI. , 2009, , .		9
196	Experiences of On-Demand Execution for Large Scale Parameter Sweep Applications on OSG by Swift. , 2009, , .		1
197	Extreme-scale scripting: Opportunities for large task-parallel applications on petascale computers. Journal of Physics: Conference Series, 2009, 180, 012046.	0.4	18
198	Computing outside the box. , 2009, , .		2

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199	Parallel Scripting for Applications at the Petascale and Beyond. Computer, 2009, 42, 50-60.	1.1	78
200	A Flexible Attribute Based Access Control Method for Grid Computing. Journal of Grid Computing, 2009, 7, 169-180.	3.9	86
201	Virtual Infrastructure Management in Private and Hybrid Clouds. IEEE Internet Computing, 2009, 13, 14-22.	3.3	715
202	The quest for scalable support of data-intensive workloads in distributed systems. , 2009, , .		40
203	How Do I Model State? Let Me Count the Ways. Queue, 2009, 7, 54-55.	1.1	0
204	Tracking provenance in a virtual data grid. Concurrency Computation Practice and Experience, 2008, 20, 565-575.	2.2	55
205	e-Science, caGrid, and Translational Biomedical Research. Computer, 2008, 41, 58-66.	1.1	15
206	Terascale turbulence computation using the FLASH3 application framework on the IBM Blue Gene/L system. IBM Journal of Research and Development, 2008, 52, 127-136.	3.1	44
207	Cloud Computing and Grid Computing 360-Degree Compared. , 2008, , .		1,820
208	Many-task computing for grids and supercomputers. , 2008, , .		180
209	Combining the Power of Taverna and caGrid: Scientific Workflows that Enable Web-Scale Collaboration. IEEE Internet Computing, 2008, 12, 61-68.	3.3	18
210	Provisioning for Dynamic Instantiation of Community Services. IEEE Internet Computing, 2008, 12, 29-36.	3.3	5
211	Orchestrating caGrid Services in Taverna. , 2008, , .		3
212	Build Grid Enabled Scientific Workflows Using gRAVI and Taverna. , 2008, , .		4
213	Communicating Security Assertions over the GridFTP Control Channel. , 2008, , .		0
214	Scientific Workflow Systems for 21st Century, New Bottle or New Wine?. , 2008, , .		50
215	Design and evaluation of a collective IO model for loosely coupled petascale programming. , 2008, , .		18
216	Combining batch execution and leasing using virtual machines. , 2008, , .		174

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217	How do I model state?. Communications of the ACM, 2008, 51, 34-41.	4.5	17
218	Accelerating large-scale data exploration through data diffusion. , 2008, , .		55
219	Toward loosely coupled programming on petascale systems. , 2008, , .		63
220	A Scalable Cluster Algorithm for Internet Resources. , 2007, , .		4
221	Falkon. , 2007, , .		205
222	GridCopy: Moving Data Fast on the Grid. , 2007, , .		9
223	Swift: Fast, Reliable, Loosely Coupled Parallel Computation. , 2007, , .		243
224	Enabling distributed petascale science. Journal of Physics: Conference Series, 2007, 78, 012020.	0.4	9
225	Harnessing Multicore Processors for High-Speed Secure Transfer. , 2007, , .		1
226	HAND: Highly Available Dynamic Deployment Infrastructure for Globus Toolkit 4. Parallel, Distributed and Network-based Processing, Proceedings of the Euromicro Workshop on, 2007, , .	0.0	38
227	Usage SLA-based scheduling in Grids. Concurrency Computation Practice and Experience, 2007, 19, 945-963.	2.2	10
228	The Design, Usage, and Performance of GRUBER: A Grid Usage Service Level Agreement based BrokERing Infrastructure. Journal of Grid Computing, 2007, 5, 99-126.	3.9	20
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