

Ian Foster

List of Publications by Year in descending order

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417
papers

42,556
citations

13865

67
h-index

5394

164
g-index

460
all docs

460
docs citations

460
times ranked

22152
citing authors

#	ARTICLE	IF	CITATIONS
1	The Anatomy of the Grid: Enabling Scalable Virtual Organizations. International Journal of High Performance Computing Applications, 2001, 15, 200-222.	3.7	4,854
2	XSEDE: Accelerating Scientific Discovery. Computing in Science and Engineering, 2014, 16, 62-74.	1.2	2,790
3	Globus: a Metacomputing Infrastructure Toolkit. International Journal of High Performance Computing Applications, 1997, 11, 115-128.	1.5	2,226
4	Cloud Computing and Grid Computing 360-Degree Compared. , 2008, , .		1,820
5	Grid services for distributed system integration. Computer, 2002, 35, 37-46.	1.1	1,644
6	Grid information services for distributed resource sharing. , 0, , .		874
7	A security architecture for computational grids. , 1998, , .		833
8	The data grid: Towards an architecture for the distributed management and analysis of large scientific datasets. Journal of Network and Computer Applications, 2000, 23, 187-200.	9.1	802
9	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
10	Virtual Infrastructure Management in Private and Hybrid Clouds. IEEE Internet Computing, 2009, 13, 14-22.	3.3	715
11	The anatomy of the grid: enabling scalable virtual organizations. , 0, , .		617
12	Condor-G: A Computation Management Agent for Multi-Institutional Grids. Cluster Computing, 2002, 5, 237-246.	5.0	557
13	A resource management architecture for metacomputing systems. Lecture Notes in Computer Science, 1998, , 62-82.	1.3	488
14	MPICH-G2: A Grid-enabled implementation of the Message Passing Interface. Journal of Parallel and Distributed Computing, 2003, 63, 551-563.	4.1	486
15	Globus Toolkit Version 4: Software for Service-Oriented Systems. Journal of Computer Science and Technology, 2006, 21, 513-520.	1.5	473
16	Data management and transfer in high-performance computational grid environments. Parallel Computing, 2002, 28, 749-771.	2.1	467
17	Matminer: An open source toolkit for materials data mining. Computational Materials Science, 2018, 152, 60-69.	3.0	446
18	Brief history of agricultural systems modeling. Agricultural Systems, 2017, 155, 240-254.	6.1	403

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19	The Grid: A New Infrastructure for 21st Century Science. <i>Physics Today</i> , 2002, 55, 42-47.	0.3	388
20	A distributed resource management architecture that supports advance reservations and co-allocation. , 0, , .		385
21	Service-Oriented Science. <i>Science</i> , 2005, 308, 814-817.	12.6	374
22	A community authorization service for group collaboration. , 0, , .		360
23	Chimera: a virtual data system for representing, querying, and automating data derivation. , 0, , .		340
24	Condor-G: a computation management agent for multi-institutional grids. , 0, , .		323
25	Swift: A language for distributed parallel scripting. <i>Parallel Computing</i> , 2011, 37, 633-652.	2.1	319
26	The Globus project: a status report. , 0, , .		279
27	On Death, Taxes, and the Convergence of Peer-to-Peer and Grid Computing. <i>Lecture Notes in Computer Science</i> , 2003, , 118-128.	1.3	279
28	Security for Grid services. , 0, , .		277
29	Identifying Dynamic Replication Strategies for a High-Performance Data Grid. <i>Lecture Notes in Computer Science</i> , 2001, , 75-86.	1.3	266
30	Climate impacts on global agriculture emerge earlier in new generation of climate and crop models. <i>Nature Food</i> , 2021, 2, 873-885.	14.0	263
31	Toward a new generation of agricultural system data, models, and knowledge products: State of agricultural systems science. <i>Agricultural Systems</i> , 2017, 155, 269-288.	6.1	261
32	Machine learning algorithms for modeling groundwater level changes in agricultural regions of the U.S.. <i>Water Resources Research</i> , 2017, 53, 3878-3895.	4.2	256
33	SNAP: A Protocol for Negotiating Service Level Agreements and Coordinating Resource Management in Distributed Systems. <i>Lecture Notes in Computer Science</i> , 2002, , 153-183.	1.3	250
34	Swift: Fast, Reliable, Loosely Coupled Parallel Computation. , 2007, , .		243
35	The GrADS Project: Software Support for High-Level Grid Application Development. <i>International Journal of High Performance Computing Applications</i> , 2001, 15, 327-344.	3.7	239
36	Decoupling computation and data scheduling in distributed data-intensive applications. , 0, , .		237

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37	Globus Online: Accelerating and Democratizing Science through Cloud-Based Services. IEEE Internet Computing, 2011, 15, 70-73.	3.3	231
38	A Java commodity grid kit. Concurrency Computation Practice and Experience, 2001, 13, 645-662.	2.2	221
39	The Materials Data Facility: Data Services to Advance Materials Science Research. Jom, 2016, 68, 2045-2052.	1.9	215
40	Mapping the Gnutella Network: Macroscopic Properties of Large-Scale Peer-to-Peer Systems. Lecture Notes in Computer Science, 2002, , 85-93.	1.3	215
41	Generalized communicators in the Message Passing Interface. , 0, , .		209
42	The Physiology of the Grid. , 0, , 217-249.		205
43	Falkon. , 2007, , .		205
44	The Nexus Approach to Integrating Multithreading and Communication. Journal of Parallel and Distributed Computing, 1996, 37, 70-82.	4.1	200
45	A quality of service architecture that combines resource reservation and application adaptation. , 0, , .		200
46	A directory service for configuring high-performance distributed computations. , 0, , .		194
47	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
48	Software as a service for data scientists. Communications of the ACM, 2012, 55, 81-88.	4.5	188
49	Many-task computing for grids and supercomputers. , 2008, , .		180
50	The Anatomy of the Grid. , 0, , 169-197.		179
51	Virtual Workspaces: Achieving Quality of Service and Quality of Life in the Grid. Scientific Programming, 2005, 13, 265-275.	0.7	179
52	A national-scale authentication infrastructure. Computer, 2000, 33, 60-66.	1.1	176
53	On Fully Decentralized Resource Discovery in Grid Environments. Lecture Notes in Computer Science, 2001, , 51-62.	1.3	174
54	Combining batch execution and leasing using virtual machines. , 2008, , .		174

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55	Scheduling with advanced reservations. , 0, , .		166
56	Trade and Carbon Taxes. American Economic Review, 2010, 100, 465-469.	8.5	155
57	Shining Light into Black Boxes. Science, 2012, 336, 159-160.	12.6	154
58	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
59	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
60	Secure, Efficient Data Transport and Replica Management for High-Performance Data-Intensive Computing. Mass Storage Systems and Technologies(MSS), Proceedings of the NASA Goddard Conference on, 2001, , .	0.0	144
61	Virtual Clusters for Grid Communities. , 2006, , .		144
62	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
63	Autonomous experimentation systems for materials development: A community perspective. Matter, 2021, 4, 2702-2726.	10.0	143
64	GASS. , 1999, , .		142
65	End-to-end quality of service for high-end applications. Computer Communications, 2004, 27, 1375-1388.	5.1	142
66	The Anatomy of the Grid: Enabling Scalable Virtual Organizations. Lecture Notes in Computer Science, 2001, , 1-4.	1.3	141
67	Simulation Studies of Computation and Data Scheduling Algorithms for Data Grids. Journal of Grid Computing, 2003, 1, 53-62.	3.9	139
68	Parsl. , 2019, , .		138
69	A high-throughput x-ray microtomography system at the Advanced Photon Source. Review of Scientific Instruments, 2001, 72, 2062-2068.	1.3	136
70	Using Run-Time Predictions to Estimate Queue Wait Times and Improve Scheduler Performance. Lecture Notes in Computer Science, 1999, , 202-219.	1.3	133
71	The Earth System Grid: Supporting the Next Generation of Climate Modeling Research. Proceedings of the IEEE, 2005, 93, 485-495.	21.3	130
72	Small-world file-sharing communities. , 0, , .		127

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73	Replica selection in the Globus Data Grid. , 0, , .		125
74	Giggle: A Framework for Constructing Scalable Replica Location Services. , 2002, , .		121
75	Improving Data Availability through Dynamic Model-Driven Replication in Large Peer-to-Peer Communities. , 0, , .		116
76	File and Object Replication in Data Grids. Cluster Computing, 2002, 5, 305-314.	5.0	113
77	Data publication with the structural biology data grid supports live analysis. Nature Communications, 2016, 7, 10882.	12.8	113
78	A data ecosystem to support machine learning in materials science. MRS Communications, 2019, 9, 1125-1133.	1.8	112
79	A Grid-Enabled MPI: Message Passing in Heterogeneous Distributed Computing Systems. , 1998, , .		110
80	The parallel system for integrating impact models and sectors (pSIMS). Environmental Modelling and Software, 2014, 62, 509-516.	4.5	101
81	Modeling and Managing State in Distributed Systems: The Role of OGSI and WSRF. Proceedings of the IEEE, 2005, 93, 604-612.	21.3	99
82	Predicting application run times with historical information. Journal of Parallel and Distributed Computing, 2004, 64, 1007-1016.	4.1	98
83	A fault detection service for wide area distributed computations. , 0, , .		97
84	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
85	funcX: A Federated Function Serving Fabric for Science. , 2020, , .		94
86	The Open Grid Services Architecture. , 2004, , 215-257.		92
87	Supporting efficient execution in heterogeneous distributed computing environments with cactus and globus. , 2001, , .		91
88	The Grid: Computing without Bounds. Scientific American, 2003, 288, 78-85.	1.0	91
89	Overview of the I-Way: Wide-Area Visual Supercomputing. International Journal of High Performance Computing Applications, 1996, 10, 123-131.	1.5	88
90	A Flexible Attribute Based Access Control Method for Grid Computing. Journal of Grid Computing, 2009, 7, 169-180.	3.9	86

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91	Design and performance of a scalable parallel community climate model. Parallel Computing, 1995, 21, 1571-1591.	2.1	83
92	A notation and system for expressing and executing cleanly typed workflows on messy scientific data. SIGMOD Record, 2005, 34, 37-43.	1.2	82
93	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
94	The Globus project: a status report. Future Generation Computer Systems, 1999, 15, 607-621.	7.5	78
95	Parallel Scripting for Applications at the Petascale and Beyond. Computer, 2009, 42, 50-60.	1.1	78
96	GangSim: a simulator for grid scheduling studies. , 2005, , .		74
97	File and object replication in data grids. , 0, , .		73
98	Design and evaluation of a resource selection framework for Grid applications. , 0, , .		73
99	Efficient and Secure Transfer, Synchronization, and Sharing of Big Data. IEEE Cloud Computing, 2014, 1, 46-55.	3.9	70
100	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
101	Managing Multiple Communication Methods in High-Performance Networked Computing Systems. Journal of Parallel and Distributed Computing, 1997, 40, 35-48.	4.1	69
102	Wide-area implementation of the Message Passing Interface. Parallel Computing, 1998, 24, 1735-1749.	2.1	69
103	NCI Workshop Report: Clinical and Computational Requirements for Correlating Imaging Phenotypes with Genomics Signatures. Translational Oncology, 2014, 7, 556-569.	3.7	69
104	Homeostatic and tendency-based CPU load predictions. , 0, , .		68
105	Agreement-Based Resource Management. Proceedings of the IEEE, 2005, 93, 631-643.	21.3	68
106	Network Analysis of Scientific Workflows: A Gateway to Reuse. Computer, 2010, 43, 54-61.	1.1	68
107	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
108	The virtual data grid: a new model and architecture for data-intensive collaboration. , 0, , .		66

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109	Scaling System-Level Science: Scientific Exploration and IT Implications. Computer, 2006, 39, 31-39.	1.1	65
110	Internet Computing and the Emerging Grid. Nature, 0, , .	27.8	64
111	Cloud-based bioinformatics workflow platform for large-scale next-generation sequencing analyses. Journal of Biomedical Informatics, 2014, 49, 119-133.	4.3	64
112	Locating Data in (Small-World?) Peer-to-Peer Scientific Collaborations. Lecture Notes in Computer Science, 2002, , 232-241.	1.3	64
113	Toward loosely coupled programming on petascale systems. , 2008, , .		63
114	Recommend-As-You-Go: A Novel Approach Supporting Services-Oriented Scientific Workflow Reuse. , 2011, , .		63
115	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
116	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
117	Remote I/O. , 1997, , .		58
118	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
119	Tracking provenance in a virtual data grid. Concurrency Computation Practice and Experience, 2008, 20, 565-575.	2.2	55
120	Accelerating large-scale data exploration through data diffusion. , 2008, , .		55
121	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
122	A Tool for Prioritizing DAGMan Jobs and its Evaluation. Journal of Grid Computing, 2007, 5, 197-212.	3.9	53
123	Exascale applications: skin in the game. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190056.	3.4	53
124	Data integration in a bandwidth-rich world. Communications of the ACM, 2003, 46, 50-57.	4.5	52
125	Multiparadigm communications in Java for grid computing. Communications of the ACM, 2001, 44, 118-125.	4.5	51
126	Productive Parallel Programming: The PCN Approach. Scientific Programming, 1992, 1, 51-66.	0.7	50

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127	Scientific Workflow Systems for 21st Century, New Bottle or New Wine?. , 2008, , .		50
128	A fault detection service for wide area distributed computations. Cluster Computing, 1999, 2, 117-128.	5.0	48
129	Globus platformâ€”a service for collaborative science applications. Concurrency Computation Practice and Experience, 2015, 27, 290-305.	2.2	46
130	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
131	High-performance remote access to climate simulation data: a challenge problem for data grid technologies. Parallel Computing, 2003, 29, 1335-1356.	2.1	45
132	State and events for web services: a comparison of five WS-resource framework and WS-notification implementations. , 0, , .		45
133	Ophidia: Toward Big Data Analytics for eScience. Procedia Computer Science, 2013, 18, 2376-2385.	2.0	45
134	Software infrastructure for the I-WAY high-performance distributed computing experiment. , 1996, , .		44
135	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
136	Computing Just What You Need: Online Data Analysis and Reduction at Extreme Scales. , 2017, , .		44
137	A compilation system that integrates High Performance Fortran and Fortran M. , 0, , .		43
138	A two-way street to science's future. Nature, 2006, 440, 419-419.	27.8	43
139	Globus auth: A research identity and access management platform. , 2016, , .		43
140	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
141	Overhead Matters: A Model for Virtual Resource Management. , 2006, , .		41
142	Applying the Virtual Data Provenance Model. Lecture Notes in Computer Science, 2006, , 148-161.	1.3	41
143	A Multipolicy Authorization Framework for Grid Security. , 0, , .		40
144	The quest for scalable support of data-intensive workloads in distributed systems. , 2009, , .		40

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145	The Globus Galaxies platform: delivering science gateways as a service. Concurrency Computation Practice and Experience, 2015, 27, 4344-4360.	2.2	40
146	Computational Design and Performance of the Fast Ocean Atmosphere Model, Version One. Lecture Notes in Computer Science, 2001, , 175-184.	1.3	40
147	Computational Grids in action: the National Fusion Collaboratory. Future Generation Computer Systems, 2002, 18, 1005-1015.	7.5	38
148	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
149	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
150	Application experiences with the Globus toolkit. , 0, , .		37
151	A decentralized, adaptive replica location mechanism. , 0, , .		37
152	Distance visualization: data exploration on the grid. Computer, 1999, 32, 36-43.	1.1	36
153	Describing the Elephant: The Different Faces of IT as Service. Queue, 2005, 3, 26-29.	1.1	36
154	DLHub: Model and Data Serving for Science. , 2019, , .		36
155	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
156	Applying Chimera Virtual Data Concepts to Cluster Finding in the Sloan Sky Survey. , 2002, , .		35
157	Middleware support for many-task computing. Cluster Computing, 2010, 13, 291-314.	5.0	35
158	Cost-Aware Cloud Provisioning. , 2015, , .		35
159	GRUBER: A Grid Resource Usage SLA Broker. Lecture Notes in Computer Science, 2005, , 465-474.	1.3	35
160	Globus Data Publication as a Service: Lowering Barriers to Reproducible Science. , 2015, , .		34
161	The grid2003 production grid: principles and practice. , 0, , .		33
162	I'll take that to go: Big data bags and minimal identifiers for exchange of large, complex datasets. , 2016, , .		33

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163	Globus. , 2016, , .		33
164	Interest-aware information dissemination in small-world communities. , 0, , .		32
165	Managing security in high-performance distributed computations. Cluster Computing, 1998, 1, 95-107.	5.0	31
166	Grid technologies empowering drug discovery. Drug Discovery Today, 2002, 7, s176-s180.	6.4	31
167	The Astrophysics Simulation Collaboratory: A Science Portal Enabling Community Software Development. Cluster Computing, 2002, 5, 297-304.	5.0	31
168	Incentive mechanisms for large collaborative resource sharing. , 0, , .		31
169	Compiler Techniques for Massively Scalable Implicit Task Parallelism. , 2014, , .		31
170	Double standards. , 1996, , .		29
171	CaGrid Workflow Toolkit: A taverna based workflow tool for cancer grid. BMC Bioinformatics, 2010, 11, 542.	2.6	29
172	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
173	Strategies for accelerating the adoption of materials informatics. MRS Bulletin, 2018, 43, 683-689.	3.5	29
174	Reproducible big data science: A case study in continuous FAIRness. PLoS ONE, 2019, 14, e0213013.	2.5	29
175	Enabling deeper learning on big data for materials informatics applications. Scientific Reports, 2021, 11, 4244.	3.3	29
176	Transferring a petabyte in a day. Future Generation Computer Systems, 2018, 88, 191-198.	7.5	28
177	Atlas of Transcription Factor Binding Sites from ENCODE DNase Hypersensitivity Data across 27 Tissue Types. Cell Reports, 2020, 32, 108029.	6.4	28
178	End-to-end provision of policy information for network QoS. , 0, , .		27
179	Zodiac: A Comprehensive Depiction of Genetic Interactions in Cancer by Integrating TCGA Data. Journal of the National Cancer Institute, 2015, 107, .	6.3	27
180	Explaining Wide Area Data Transfer Performance. , 2017, , .		26

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181	Automated Development of Molten Salt Machine Learning Potentials: Application to LiCl. Journal of Physical Chemistry Letters, 2021, 12, 4278-4285.	4.6	26
182	Large-scale distributed computational fluid dynamics on the information power grid using Globus. , 1999, , .		25
183	FACEâ€™T: A science gateway for food security research. Concurrency Computation Practice and Experience, 2015, 27, 4423-4436.	2.2	25
184	The Modern Research Data Portal: a design pattern for networked, data-intensive science. PeerJ Computer Science, 2018, 4, e144.	4.5	24
185	The Grid: A New Infrastructure for 21st Century Science. , 0, , 51-63.		23
186	Turbine: A Distributed-memory Dataflow Engine for High Performance Many-task Applications. Fundamenta Informaticae, 2013, 128, 337-366.	0.4	23
187	IRNet. , 2019, , .		23
188	Concepts and Architecture. , 2004, , 37-63.		23
189	Compositional parallel programming languages. ACM Transactions on Programming Languages and Systems, 1996, 18, 454-476.	2.1	23
190	Cost-Aware Elastic Cloud Provisioning for Scientific Workloads. , 2015, , .		22
191	WaComM: A Parallel Water Quality Community Model for Pollutant Transport and Dispersion Operational Predictions. , 2016, , .		22
192	Trace: a high-throughput tomographic reconstruction engine for large-scale datasets. Advanced Structural and Chemical Imaging, 2017, 3, 6.	4.0	22
193	DI-GRUBER: A Distributed Approach to Grid Resource Brokering. , 0, , .		21
194	A Model for Usage Policy-Based Resource Allocation in Grids. , 0, , .		21
195	MTCProv: a practical provenance query framework for many-task scientific computing. Distributed and Parallel Databases, 2012, 30, 351-370.	1.6	21
196	Globus Nexus: An identity, profile, and group management platform for science gateways and other collaborative science applications. , 2013, , .		21
197	Real-Time Data Analysis and Autonomous Steering of Synchrotron Light Source Experiments. , 2017, , .		21
198	Cactus Application: Performance Predictions in Grid Environments. Lecture Notes in Computer Science, 2001, , 807-816.	1.3	21

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199	The Model Coupling Toolkit. Lecture Notes in Computer Science, 2001, , 185-194.	1.3	21
200	Fast and accurate learned multiresolution dynamical downscaling for precipitation. Geoscientific Model Development, 2021, 14, 6355-6372.	3.6	21
201	DiPerF: An Automated Distributed PERFORMANCE Testing Framework. , 0, , .		20
202	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
203	ServiceMap: Providing Map and GPS Assistance to Service Composition in Bioinformatics. , 2011, , .		20
204	Coupling Exascale Multiphysics Applications: Methods and Lessons Learned. , 2018, , .		20
205	Globus Platform Services for Data Publication. , 2018, , .		20
206	Colmena: Scalable Machine-Learning-Based Steering of Ensemble Simulations for High Performance Computing. , 2021, , .		20
207	Usage Policy-Based CPU Sharing in Virtual Organizations. , 0, , .		19
208	Gnare: Automated System For High-Throughput Genome Analysis With Grid Computational Backend. Journal of Clinical Monitoring and Computing, 2005, 19, 361-369.	1.6	19
209	Report on the International Provenance and Annotation Workshop. SIGMOD Record, 2006, 35, 51-53.	1.2	19
210	Scheduling many-task workloads on supercomputers: Dealing with trailing tasks. , 2010, , .		19
211	Integrative genomics analyses unveil downstream biological effectors of disease-specific polymorphisms buried in intergenic regions. Npj Genomic Medicine, 2016, 1, .	3.8	19
212	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
213	<i>BraggNN</i>: fast X-ray Bragg peak analysis using deep learning. IUCrJ, 2022, 9, 104-113.	2.2	19
214	The Design, Performance, and Use of DiPerF: An automated Distributed PERFORMANCE evaluation Framework. Journal of Grid Computing, 2006, 4, 287-309.	3.9	18
215	Combining the Power of Taverna and caGrid: Scientific Workflows that Enable Web-Scale Collaboration. IEEE Internet Computing, 2008, 12, 61-68.	3.3	18
216	Design and evaluation of a collective IO model for loosely coupled petascale programming. , 2008, , .		18

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217	Extreme-scale scripting: Opportunities for large task-parallel applications on petascale computers. Journal of Physics: Conference Series, 2009, 180, 012046.	0.4	18
218	A Hybrid Human-computer Approach to the Extraction of Scientific Facts from the Literature. Procedia Computer Science, 2016, 80, 386-397.	2.0	18
219	Towards a Hybrid Human-Computer Scientific Information Extraction Pipeline. , 2017, , .		18
220	A secure communications infrastructure for high-performance distributed computing. , 0, , .		17
221	The Astrophysics Simulation Collaboratory: a science portal enabling community software development. , 0, , .		17
222	A constraint language approach to matchmaking. , 0, , .		17
223	Virtual data Grid middleware services for data-intensive science. Concurrency Computation Practice and Experience, 2006, 18, 595-608.	2.2	17
224	How do I model state?. Communications of the ACM, 2008, 51, 34-41.	4.5	17
225	Provenance management in Swift. Future Generation Computer Systems, 2011, 27, 775-780.	7.5	17
226	Deploying Bioinformatics Workflows on Clouds with Galaxy and Globus Provision. , 2012, , .		17
227	Blending Education and Polymer Science: Semiautomated Creation of a Thermodynamic Property Database. Journal of Chemical Education, 2016, 93, 1561-1568.	2.3	17
228	DYNAMO: Distributed Leisure Yacht-Carried Sensor-Network for Atmosphere and Marine Data Crowdsourcing Applications. , 2018, , .		17
229	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
230	Experiences in Running Workloads over Grid3. Lecture Notes in Computer Science, 2005, , 274-286.	1.3	17
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