Ian Foster

List of Publications by Year
in descending order

417 papers	42,556 citations	15880 67 h-index	6177 164 g-index
460 all docs	460 docs citations	460 times ranked	25102 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.	2.4	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.	1.6	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.	1.2	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.	5.8	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.	3.3	795
10	Virtual Infrastructure Management in Private and Hybrid Clouds. IEEE Internet Computing, 2009, 13, 14-22.	3.2	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.	3.5	557
13	A resource management architecture for metacomputing systems. Lecture Notes in Computer Science, 1998, , 62-82.	1.0	488
14	MPICH-G2: A Grid-enabled implementation of the Message Passing Interface. Journal of Parallel and Distributed Computing, 2003, 63, 551-563.	2.7	486
15	Globus Toolkit Version 4: Software for Service-Oriented Systems. Journal of Computer Science and Technology, 2006, 21, 513-520.	0.9	473
16	Data management and transfer in high-performance computational grid environments. Parallel Computing, 2002, 28, 749-771.	1.3	467
17	Matminer: An open source toolkit for materials data mining. Computational Materials Science, 2018, 152, 60-69.	1.4	446
18	Brief history of agricultural systems modeling. Agricultural Systems, 2017, 155, 240-254.	3.2	403

#	Article	IF	Citations
19	The Grid: A New Infrastructure for 21st Century Science. Physics Today, 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. Science, 2005, 308, 814-817.	6.0	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. Parallel Computing, 2011, 37, 633-652.	1.3	319
26	The Globus project: a status report. , 0, , .		279
27	On Death, Taxes, and the Convergence of Peer-to-Peer and Grid Computing. Lecture Notes in Computer Science, 2003, , 118-128.	1.0	279
28	Security for Grid services. , 0, , .		277
29	Identifying Dynamic Replication Strategies for a High-Performance Data Grid. Lecture Notes in Computer Science, 2001, , 75-86.	1.0	266
30	Climate impacts on global agriculture emerge earlier in new generation of climate and crop models. Nature Food, 2021, 2, 873-885.	6.2	263
31	Toward a new generation of agricultural system data, models, and knowledge products: State of agricultural systems science. Agricultural Systems, 2017, 155, 269-288.	3.2	261
32	Machine learning algorithms for modeling groundwater level changes in agricultural regions of the U.S.. Water Resources Research, 2017, 53, 3878-3895.	1.7	256
33	SNAP: A Protocol for Negotiating Service Level Agreements and Coordinating Resource Management in Distributed Systems. Lecture Notes in Computer Science, 2002, , 153-183.	1.0	250
34	Swift: Fast, Reliable, Loosely Coupled Parallel Computation. , 2007, , .		243
35	The GrADS Project: Software Support for High-Level Grid Application Development. International Journal of High Performance Computing Applications, 2001, 15, 327-344.	2.4	239
36	Decoupling computation and data scheduling in distributed data-intensive applications. , 0, , .		237

#	ARTICLE	IF	CITATIONS
37	Globus Online: Accelerating and Democratizing Science through Cloud-Based Services. IEEE Internet Computing, 2011, 15, 70-73.	3.2	231
38	A Java commodity grid kit. Concurrency Computation Practice and Experience, 2001, 13, 645-662.	1.4	221
39	The Materials Data Facility: Data Services to Advance Materials Science Research. Jom, 2016, 68, 2045-2052.	0.9	215
40	Mapping the Gnutella Network: Macroscopic Properties of Large-Scale Peer-to-Peer Systems. Lecture Notes in Computer Science, 2002, , 85-93.	1.0	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.	2.7	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.	1.3	190
48	Software as a service for data scientists. Communications of the ACM, 2012, 55, 81-88.	3.3	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.	0.5	179
52	A national-scale authentication infrastructure. Computer, 2000, 33, 60-66.	1.2	176
53	On Fully Decentralized Resource Discovery in Grid Environments. Lecture Notes in Computer Science, 2001, , 51-62.	1.0	174
54	Combining batch execution and leasing using virtual machines. , 2008, , .		174

#	Article	IF	Citations
55	Scheduling with advanced reservations. , 0, , .		166
56	Trade and Carbon Taxes. American Economic Review, 2010, 100, 465-469.	4.0	155
57	Shining Light into Black Boxes. Science, 2012, 336, 159-160.	6.0	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.	1.7	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.	3.3	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.	3.2	143
63	Autonomous experimentation systems for materials development: A community perspective. Matter, 2021, 4, 2702-2726.	5.0	143
64	GASS. , 1999, , .		142
65	End-to-end quality of service for high-end applications. Computer Communications, 2004, 27, 1375-1388.	3.1	142
66	The Anatomy of the Grid: Enabling Scalable Virtual Organizations. Lecture Notes in Computer Science, 2001, , 1-4.	1.0	141
67	Simulation Studies of Computation and Data Scheduling Algorithms for Data Grids. Journal of Grid Computing, 2003, 1, 53-62.	2.5	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.	0.6	136
70	Using Run-Time Predictions to Estimate Queue Wait Times and Improve Scheduler Performance. Lecture Notes in Computer Science, 1999, , 202-219.	1.0	133
71	The Earth System Grid: Supporting the Next Generation of Climate Modeling Research. Proceedings of the IEEE, 2005, 93, 485-495.	16.4	130
72	Small-world file-sharing communities. , 0, , .		127

#	Article	IF	Citations
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.	3.5	113
77	Data publication with the structural biology data grid supports live analysis. Nature Communications, 2016, 7, 10882.	5.8	113
78	A data ecosystem to support machine learning in materials science. MRS Communications, 2019, 9, 1125-1133.	0.8	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.	1.9	101
81	Modeling and Managing State in Distributed Systems: The Role of OGSI and WSRF. Proceedings of the IEEE, 2005, 93, 604-612.	16.4	99
82	Predicting application run times with historical information. Journal of Parallel and Distributed Computing, 2004, 64, 1007-1016.	2.7	98
83	A fault detection service for wide area distributed computations. , 0, , .		97
84	Predictive Big Data Analytics: A Study of Parkinson's Disease Using Large, Complex, Heterogeneous, Incongruent, Multi-Source and Incomplete Observations. PLoS ONE, 2016, 11, e0157077.	1.1	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.	1.6	88
90	A Flexible Attribute Based Access Control Method for Grid Computing. Journal of Grid Computing, 2009, 7, 169-180.	2.5	86

#	Article	IF	Citations
91	Design and performance of a scalable parallel community climate model. Parallel Computing, 1995, 21, 1571-1591.	1.3	83
92	A notation and system for expressing and executing cleanly typed workflows on messy scientific data. SIGMOD Record, 2005, 34, 37-43.	0.7	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.	0.8	79
94	The Globus project: a status report. Future Generation Computer Systems, 1999, 15, 607-621.	4.9	78
95	Parallel Scripting for Applications at the Petascale and Beyond. Computer, 2009, 42, 50-60.	1.2	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.	5.3	70
100	Big biomedical data as the key resource for discovery science. Journal of the American Medical Informatics Association: JAMIA, 2015, 22, 1126-1131.	2.2	70
101	Managing Multiple Communication Methods in High-Performance Networked Computing Systems. Journal of Parallel and Distributed Computing, 1997, 40, 35-48.	2.7	69
102	Wide-area implementation of the Message Passing Interface. Parallel Computing, 1998, 24, 1735-1749.	1.3	69
103	NCI Workshop Report: Clinical and Computational Requirements for Correlating Imaging Phenotypes with Genomics Signatures. Translational Oncology, 2014, 7, 556-569.	1.7	69
104	Homeostatic and tendency-based CPU load predictions. , 0, , .		68
105	Agreement-Based Resource Management. Proceedings of the IEEE, 2005, 93, 631-643.	16.4	68
106	Network Analysis of Scientific Workflows: A Gateway to Reuse. Computer, 2010, 43, 54-61.	1.2	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.	3.3	68
108	The virtual data grid: a new model and architecture for data-intensive collaboration. , 0, , .		66

#	Article	IF	Citations
109	Scaling System-Level Science: Scientific Exploration and IT Implications. Computer, 2006, 39, 31-39.	1.2	65
110	Internet Computing and the Emerging Grid. Nature, 0, , .	13.7	64
111	Cloud-based bioinformatics workflow platform for large-scale next-generation sequencing analyses. Journal of Biomedical Informatics, 2014, 49, 119-133.	2.5	64
112	Locating Data in (Small-World?) Peer-to-Peer Scientific Collaborations. Lecture Notes in Computer Science, 2002, , 232-241.	1.0	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.	3.3	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.	1.4	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.	2.2	56
119	Tracking provenance in a virtual data grid. Concurrency Computation Practice and Experience, 2008, 20, 565-575.	1.4	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.	2.5	54
122	A Tool for Prioritizing DAGMan Jobs and its Evaluation. Journal of Grid Computing, 2007, 5, 197-212.	2.5	53
123	Exascale applications: skin in the game. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190056.	1.6	53
124	Data integration in a bandwidth-rich world. Communications of the ACM, 2003, 46, 50-57.	3.3	52
125	Multiparadigm communications in Java for grid computing. Communications of the ACM, 2001, 44, 118-125.	3.3	51
126	Productive Parallel Programming: The PCN Approach. Scientific Programming, 1992, 1, 51-66.	0.5	50

#	Article	IF	Citations
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.	3.5	48
129	Globus platformâ€•asâ€•aâ€•service for collaborative science applications. Concurrency Computation Practice and Experience, 2015, 27, 290-305.	1.4	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, .	3.3	46
131	High-performance remote access to climate simulation data: a challenge problem for data grid technologies. Parallel Computing, 2003, 29, 1335-1356.	1.3	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.	1.2	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.	3.2	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.	13.7	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.	2.2	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.	1.0	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

#	Article	IF	Citations
145	The Globus Galaxies platform: delivering science gateways as a service. Concurrency Computation Practice and Experience, 2015, 27, 4344-4360.	1.4	40
146	Computational Design and Performance of the Fast Ocean Atmosphere Model, Version One. Lecture Notes in Computer Science, 2001, , 175-184.	1.0	40
147	Computational Grids in action: the National Fusion Collaboratory. Future Generation Computer Systems, 2002, 18, 1005-1015.	4.9	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.	0.8	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.	1.2	36
153	Describing the Elephant: The Different Faces of IT as Service. Queue, 2005, 3, 26-29.	0.8	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.	1.1	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.	3.5	35
158	Cost-Aware Cloud Provisioning. , 2015, , .		35
159	GRUBER: A Grid Resource Usage SLA Broker. Lecture Notes in Computer Science, 2005, , 465-474.	1.0	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

#	Article	IF	Citations
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.	3.5	31
166	Grid technologies empowering drug discovery. Drug Discovery Today, 2002, 7, s176-s180.	3.2	31
167	The Astrophysics Simulation Collaboratory: A Science Portal Enabling Community Software Development. Cluster Computing, 2002, 5, 297-304.	3.5	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.	1.2	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.	4.9	29
173	Strategies for accelerating the adoption of materials informatics. MRS Bulletin, 2018, 43, 683-689.	1.7	29
174	Reproducible big data science: A case study in continuous FAIRness. PLoS ONE, 2019, 14, e0213013.	1.1	29
175	Enabling deeper learning on big data for materials informatics applications. Scientific Reports, 2021, 11, 4244.	1.6	29
176	Transferring a petabyte in a day. Future Generation Computer Systems, 2018, 88, 191-198.	4.9	28
177	Atlas of Transcription Factor Binding Sites from ENCODE DNase Hypersensitivity Data across 27 Tissue Types. Cell Reports, 2020, 32, 108029.	2.9	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, .	3.0	27
180	Explaining Wide Area Data Transfer Performance. , 2017, , .		26

#	Article	IF	Citations
181	Automated Development of Molten Salt Machine Learning Potentials: Application to LiCl. Journal of Physical Chemistry Letters, 2021, 12, 4278-4285.	2.1	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.	1.4	25
184	The Modern Research Data Portal: a design pattern for networked, data-intensive science. PeerJ Computer Science, 2018, 4, e144.	2.7	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.	0.3	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.	1.7	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.	1.0	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.	1.0	21

#	Article	IF	Citations
199	The Model Coupling Toolkit. Lecture Notes in Computer Science, 2001, , 185-194.	1.0	21
200	Fast and accurate learned multiresolution dynamical downscaling for precipitation. Geoscientific Model Development, 2021, 14, 6355-6372.	1.3	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.	2.5	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.	0.7	19
209	Report on the International Provenance and Annotation Workshop. SIGMOD Record, 2006, 35, 51-53.	0.7	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, .	1.7	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.	0.8	19
213	<i>BraggNN</i>: fast X-ray Bragg peak analysis using deep learning. IUCrJ, 2022, 9, 104-113.	1.0	19
214	The Design, Performance, and Use of DiPerF: An automated DIstributed PERformance evaluation Framework. Journal of Grid Computing, 2006, 4, 287-309.	2.5	18
215	Combining the Power of Taverna and caGrid: Scientific Workflows that Enable Web-Scale Collaboration. IEEE Internet Computing, 2008, 12, 61-68.	3.2	18
216	Design and evaluation of a collective IO model for loosely coupled petascale programming. , 2008, , .		18

#	Article	IF	Citations
217	Extreme-scale scripting: Opportunities for large task-parallel applications on petascale computers. Journal of Physics: Conference Series, 2009, 180, 012046.	0.3	18
218	A Hybrid Human-computer Approach to the Extraction of Scientific Facts from the Literature. Procedia Computer Science, 2016, 80, 386-397.	1.2	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.	1.4	17
224	How do I model state?. Communications of the ACM, 2008, 51, 34-41.	3.3	17
225	Provenance management in Swift. Future Generation Computer Systems, 2011, 27, 775-780.	4.9	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.	1.1	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.	2.7	17
230	Experiences in Running Workloads over Grid3. Lecture Notes in Computer Science, 2005, , 274-286.	1.0	17
231	SOLE: Linking Research Papers with Science Objects. Lecture Notes in Computer Science, 2012, , 203-208.	1.0	17
232	HACC Cosmological Simulations: First Data Release. Astrophysical Journal, Supplement Series, 2019, 244, 17.	3.0	17
233	A differentiated services implementation for high-performance TCP flows. Computer Networks, 2000, 34, 915-929.	3.2	16
234	The globus toolkit for grid computing. , 0, , .		16

#	Article	IF	Citations
235	GNARE: an environment for grid-based high-throughput genome analysis. , 2005, , .		16
236	Data Grid tools: enabling science on big distributed data. Journal of Physics: Conference Series, 2005, 16, 571-575.	0.3	16
237	Toward Semantics Empowered Biomedical Web Services. , 2011, , .		16
238	Flat Parlog: A basis for comparison. International Journal of Parallel Programming, 1987, 16, 87-125.	1.1	15
239	e-Science, caGrid, and Translational Biomedical Research. Computer, 2008, 41, 58-66.	1.2	15
240	Scalable pCT Image Reconstruction Delivered as a Cloud Service. IEEE Transactions on Cloud Computing, 2018, 6, 182-195.	3.1	15
241	Profiling and Predicting Application Performance on the Cloud. , 2018, , .		15
242	Workflow-based automatic processing for Internet of Floating Things crowdsourced data. Future Generation Computer Systems, 2019, 94, 103-119.	4.9	15
243	An abstract machine for the implementation of PARLOG on uniprocessors. New Generation Computing, 1989, 6, 389-420.	2.5	14
244	A multicomputer garbage collector for a single-assignment language. International Journal of Parallel Programming, 1989, 18, 181-203.	1.1	14
245	Design and analysis of data management in scalable parallel scripting. , 2012, , .		14
246	Experiences in building a next-generation sequencing analysis service using galaxy, globus online and Amazon web service. , 2013, , .		14
247	Toward a smart data transfer node. Future Generation Computer Systems, 2018, 89, 10-18.	4.9	14
248	Deep Learning Accelerated Light Source Experiments. , 2019, , .		14
249	Coding the Computing Continuum: Fluid Function Execution in Heterogeneous Computing Environments. , 2021, , .		14
250	A Java commodity grid kit. Concurrency Computation Practice and Experience, 2001, 13, 645-662.	1.4	14
251	Computational Grids. Lecture Notes in Computer Science, 2001, , 3-37.	1.0	13
252	GridMapper: a tool for visualizing the behavior of large-scale distributed systems. , 0, , .		13

#	Article	IF	Citations
253	The grid grows up. IEEE Internet Computing, 2003, 7, 24-26.	3.2	13
254	Improving parallel data transfer times using predicted variances in shared networks. , 2005, , .		13
255	A comparison of using Taverna and BPEL in building scientific workflows: the case of caGrid. Concurrency Computation Practice and Experience, 2010, 22, 1098-1117.	1.4	13
256	Jetstream. , 2015, , .		13
257	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.	4.9	13
258	End-to-end online performance data capture and analysis for scientific workflows. Future Generation Computer Systems, 2021, 117, 387-400.	4.9	13
259	Bridging Data Center AI Systems with Edge Computing for Actionable Information Retrieval. , 2021, , .		13
260	Software infrastructure for the I-WAY metacomputing experiment. Concurrency and Computation: Practice and Experience, 1998, 10, 567-581.	0.6	12
261	XDTM: The XML Data Type and Mapping for Specifying Datasets. Lecture Notes in Computer Science, 2005, , 495-505.	1.0	12
262	Language Features for Scalable Distributed-Memory Dataflow Computing. , 2014, , .		12
263	Ophidia: A full software stack for scientific data analytics. , 2014, , .		12
264	Globus. , 2017, , .		12
265	Advance reservation access control using software-defined networking and tokens. Future Generation Computer Systems, 2018, 79, 225-234.	4.9	12
266	Scaling Deep Learning for Cancer with Advanced Workflow Storage Integration. , 2018, , .		12
267	Characterization and identification of HPC applications at leadership computing facility. , 2020, , .		12
268	Towards Data Intensive Many-Task Computing. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 0, , 28-73.	0.5	12
269	Uncertainty-Informed Deep Transfer Learning of Perfluoroalkyl and Polyfluoroalkyl Substance Toxicity. Journal of Chemical Information and Modeling, 2021, 61, 5793-5803.	2.5	12
270	Parallel computing in 2010. ACM SIGPLAN Notices, 2001, 36, 1.	0.2	11

#	Article	IF	Citations
271	Exposing UDDI Service Descriptions and Their Metadata Annotations as WS-Resources. , 2006, , .		11
272	Using Hybrid Grid/Cloud Computing Technologies for Environmental Data Elastic Storage, Processing, and Provisioning. , 2010, , 595-618.		11
273	AME. , 2011, , .		11
274	Optimization of tomographic reconstruction workflows on geographically distributed resources. Journal of Synchrotron Radiation, 2016, 23, 997-1005.	1.0	11
275	An in-memory based framework for scientific data analytics. , 2016, , .		11
276	A Codesign Framework for Online Data Analysis and Reduction. , 2019, , .		11
277	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.	2.4	11
278	Convolutional Neural Network Training with Distributed K-FAC. , 2020, , .		11
279	BioWorkbench: a high-performance framework for managing and analyzing bioinformatics experiments. PeerJ, 2018, 6, e5551.	0.9	11
280	Challenges and Advances in Information Extraction from Scientific Literature: a Review. Jom, 2021, 73, 3383-3400.	0.9	11
281	NeXeme: A distributed scheme based on Nexus. Lecture Notes in Computer Science, 1997, , 581-590.	1.0	10
282	Community software development with the Astrophysics Simulation Collaboratory. Concurrency Computation Practice and Experience, 2002, 14, 1289-1301.	1.4	10
283	Statistical data reduction for efficient application performance monitoring. , 2006, , .		10
284	Usage SLA-based scheduling in Grids. Concurrency Computation Practice and Experience, 2007, 19, 945-963.	1.4	10
285	Big Data Remote Access Interfaces for Light Source Science. , 2015, , .		10
286	Improving I/O Performance for Exascale Applications Through Online Data Layout Reorganization. IEEE Transactions on Parallel and Distributed Systems, 2022, 33, 878-890.	4.0	10
287	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.	1.1	10
288	Resource and Service Management. , 2004, , 259-283.		10

#	Article	IF	Citations
289	Technologies for ubiquitous supercomputing: a Java interface to the Nexus communication system. Concurrency and Computation: Practice and Experience, 1997, 9, 465-475.	0.6	9
290	GridCopy: Moving Data Fast on the Grid. , 2007, , .		9
291	Enabling distributed petascale science. Journal of Physics: Conference Series, 2007, 78, 012020.	0.3	9
292	Wrap Scientific Applications as WSRF Grid Services Using gRAVI. , 2009, , .		9
293	Big Data Staging with MPI-IO for Interactive X-ray Science. , 2014, , .		9
294	A Mathematical Programming- and Simulation-Based Framework to Evaluate Cyberinfrastructure Design Choices. , 2017, , .		9
295	Scientific Image Restoration Anywhere. , 2019, , .		9
296	A Serverless Framework for Distributed Bulk Metadata Extraction. , 2021, , .		9
297	KAISA. , 2021, , .		9
298	Title is missing!. Cluster Computing, 2000, 3, 187-199.	3.5	8
299	Globus. , 2017, , .		8
300	Data automation at light sources. AIP Conference Proceedings, 2019, , .	0.3	8
301	ParaOpt: Automated Application Parameterization and Optimization for the Cloud. , 2019, , .		8
302	SciNER: Extracting Named Entities fromÂScientific Literature. Lecture Notes in Computer Science, 2020, , 308-321.	1.0	8
303	Die Anatomie des Grid. Xpert Press, 2002, , 119-152.	0.1	8
304	Concurrency: Simple Concepts and Powerful Tools. Computer Journal, 1990, 33, 501-507.	1.5	7
305	Grids and research networks as drivers and enablers of future Internet architectures. Computer Networks, 2002, 40, 5-17.	3.2	7
306	Editors' Message. Journal of Grid Computing, 2003, 1, 1-2.	2.5	7

#	Article	IF	Citations
307	Providing Map and GPS Assistance to Service Composition in Bioinformatics. , 2011, , .		7
308	A distributed look-up architecture for text mining applications using mapreduce. , 2011, 2011, .		7
309	Software Defined Cyberinfrastructure. , 2017, , .		7
310	Skluma. , 2017, , .		7
311	Petrel. , 2019, , .		7
312	Data-Driven Cloud Clustering via a Rotationally Invariant Autoencoder. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-25.	2.7	7
313	FTK: A Simplicial Spacetime Meshing Framework for Robust and Scalable Feature Tracking. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 3463-3480.	2.9	7
314	Bootstrapping in-situ workflow auto-tuning via combining performance models of component applications. , 2021, , .		7
315	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, .	0.7	7
316	A notation for deterministic cooperating processes. IEEE Transactions on Parallel and Distributed Systems, 1995, 6, 863-871.	4.0	6
317	Tools for distributed collaborative environments: a research agenda. , 1996, , .		6
318	ADEM: Automating deployment and management of application software on the Open Science Grid. , 2009, , .		6
319	Improving Data Transfer Throughput with Direct Search Optimization. , 2016, , .		6
320	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.	2.4	6
321	Co-design Center for Exascale Machine Learning Technologies (ExaLearn). International Journal of High Performance Computing Applications, 2021, 35, 598-616.	2.4	6
322	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.	1.0	6
323	An Opportunistic Algorithm for Scheduling Workflows on Grids. , 2006, , 1-12.		6
324	Processing of crowd-sourced data from an internet of floating things. , 2017, , .		6

#	ARTICLE	IF	CITATIONS
325	Feature-preserving Lossy Compression for In Situ Data Analysis. , 2020, , .		6
326	A declarative environment for concurrent logic programming. , 1987, , 212-242.		5
327	Service-Oriented Science: Scaling eScience Impact. , 2006, , .		5
328	Provisioning for Dynamic Instantiation of Community Services. IEEE Internet Computing, 2008, 12, 29-36.	3.2	5
329	CIM-EARTH: Framework and Case Study. B E Journal of Economic Analysis and Policy, 2010, 10, .	0.5	5
330	Managed GridFTP. , 2011, , .		5
331	Exploring provenance in high performance scientific computing. , 2011, , .		5
332	Addressing data access needs of the long-tail distribution of geoscientists. , 2012, , .		5
333	Unilateral Carbon Taxes, Border Tax Adjustments and Carbon Leakage. Theoretical Inquiries in Law, 2013, 14, .	0.1	5
334	The Discovery Cloud: Accelerating and Democratizing Research on a Global Scale. , 2016, , .		5
335	Throughput Analytics of Data Transfer Infrastructures. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 20-40.	0.2	5
336	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.	2.4	5
337	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.	0.8	5
338	A sequential implementation of Parlog. Lecture Notes in Computer Science, 1986, , 149-156.	1.0	5
339	Explicit Management of Memory Hierarchy. , 1997, , 185-199.		5
340	An Open Ecosystem for Pervasive Use of Persistent Identifiers. , 2020, , .		5
341	Parallel computing in climate and weather modeling. Parallel Computing, 1995, 21, 1537.	1.3	4
342	A Scalable Cluster Algorithm for Internet Resources. , 2007, , .		4

#	Article	IF	Citations
343	Build Grid Enabled Scientific Workflows Using gRAVI and Taverna. , 2008, , .		4
344	Improving the efficiency of subset queries on raster images. , 2011, , .		4
345	MTC envelope. , 2013, , .		4
346	Globus Nexus: Research Identity, Profile, and Group Management as a Service. , 2014, , .		4
347	Publishing and Serving Machine Learning Models with DLHub. , 2019, , .		4
348	Translating the grid: How a translational approach shaped the development of grid computing. Journal of Computational Science, 2021, 52, 101214.	1.5	4
349	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.	0.2	4
350	Distributed Telepresence. , 2004, , 81-93.		4
351	Efficient high-dimensional variational data assimilation with machine-learned reduced-order models. Geoscientific Model Development, 2022, 15, 3433-3445.	1.3	4
352	Implementation of a declarative state-transition system. Software - Practice and Experience, 1989, 19, 351-370.	2.5	3
353	Grid Computing. AIP Conference Proceedings, 2001, , .	0.3	3
354	Using multiple grid resources for bioinformatics applications in GADU. , 2006, , .		3
355	Orchestrating caGrid Services in Taverna. , 2008, , .		3
356	An adaptive strategy for scheduling data-intensive applications in Grid environments. , 2010, , .		3
357	Editorsâ€™ Message. Journal of Grid Computing, 2011, 9, 1-2.	2.5	3
358	Provenance traces of the swift parallel scripting system. , 2013, , .		3
359	3d Autoencoders For Feature Extraction In X-Ray Tomography. , 2021, , .		3
360	High-performance distributed computing: The I-WAY experiment and beyond. Lecture Notes in Computer Science, 1996, , 1-10.	1.0	3

#	Article	IF	Citations
361	Poster reception---Harnessing grid resources to enable the dynamic analysis of large astronomy datasets. , 2006, , .		3
362	The Emerging Grid. , 2000, , 29-46.		3
363	Language constructs and runtime systems for compositional parallel programming. Lecture Notes in Computer Science, 1994, , 5-16.	1.0	3
364	StormSeeker: A Machine-Learning-Based Mediterranean Storm Tracer. Lecture Notes in Computer Science, 2019, , 444-456.	1.0	3
365	OAuth SSH with Globus Auth. , 2020, , .		3
366	MemXCT: Design, Optimization, Scaling, and Reproducibility of X-Ray Tomography Imaging. IEEE Transactions on Parallel and Distributed Systems, 2022, 33, 2014-2031.	4.0	3
367	Braid-DB: Toward AI-Driven Science with Machine Learning Provenance. Communications in Computer and Information Science, 2022, , 247-261.	0.4	3
368	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.	1.1	3
369	GENERAL SCIENCE: Unexpected Consequences of Connections. Science, 2002, 297, 1124-1125.	6.0	2
370	Building an open grid. , 0, , .		2
371	Service-Oriented Science: Scaling the Application and Impact of eResearch. , 0, , .		2
372	Computing outside the box. , 2009, , .		2
373	Reshaping Text Data for Efficient Processing on Amazon EC2. Scientific Programming, 2011, 19, 133-145.	0.5	2
374	Moving huge scientific datasets over the Internet. Concurrency Computation Practice and Experience, 2011, 23, 2404-2420.	1.4	2
375	Toward Interlanguage Parallel Scripting for Distributed-Memory Scientific Computing. , 2015, , .		2
376	Serverless Science for Simple, Scalable, and Shareable Scholarship. , 2019, , .		2
377	Security and Certification Issues in Grid Computing. IFIP Advances in Information and Communication Technology, 2003, , 47-55.	0.5	2
378	Towards High Performance Data Analytics for Climate Change. Lecture Notes in Computer Science, 2019, , 240-257.	1.0	2

#	Article	IF	Citations
379	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.	2.1	2
380	Efficient Incremental Maintenance of Derived Relations and BLAST Computations in Bioinformatics Data Warehouses. Lecture Notes in Computer Science, 0, , 135-145.	1.0	2
381	Optimizing Multi-Range based Error-Bounded Lossy Compression for Scientific Datasets. , 2021, , .		2
382	A declarative state transition system. The Journal of Logic Programming, 1991, 10, 45-67.	1.9	1
383	Computational grids: On-demand computing in science and engineering. Computers in Physics, 1998, 12, 109.	0.6	1
384	Software Infrastructure for the I-WAY High-Performance Distributed Computing Experiment. , 0, , 101-115.		1
385	Service-Oriented Science: Scaling eScience Impact. , 2006, , .		1
386	XIOPerf: A Tool for Evaluating Network Protocols. , 2006, , .		1
387	Harnessing Multicore Processors for High-Speed Secure Transfer. , 2007, , .		1
388	Experiences of On-Demand Execution for Large Scale Parameter Sweep Applications on OSG by Swift. , 2009, , .		1
389	An Ensemble-Based Recommendation Engine for Scientific Data Transfers. , 2016, , .		1
390	Measurement-based performance profiles and dynamics of UDT over dedicated connections. , 2016, , .		1
391	Building a Wide-Area File Transfer Performance Predictor: An Empirical Study. Lecture Notes in Computer Science, 2019, , 56-78.	1.0	1
392	A codesign framework for online data analysis and reduction. Concurrency Computation Practice and Experience, 0, , e6519.	1.4	1
393	Models and Processes to Extract Drug-like Molecules From Natural Language Text. Frontiers in Molecular Biosciences, 2021, 8, 636077.	1.6	1
394	Technologies for ubiquitous supercomputing: a Java interface to the Nexus communication system. , 1997, 9, 465.		1
395	Languages for Parallel Processing. , 2000, , 92-165.		1
396	The Grid: Beyond the Hype. Lecture Notes in Computer Science, 2004, , 1-1.	1.0	1

#	ARTICLE	IF	CITATIONS
397	Personalized Biomedical Data Integration. , 0, , .		1
398	A high-performance parallel theorem prover. Lecture Notes in Computer Science, 1990, , 649-650.	1.0	1
399	Point-To-Point Communication Using Migrating Ports. , 1996, , 199-212.		1
400	Efficient computation control in concurrent logic languages. New Generation Computing, 1991, 10, 1-21.	2.5	0
401	Implementing noncollective parallel I/O in cluster environments using Active Message communication. Cluster Computing, 1999, 2, 271-279.	3.5	0
402	Ouroboros: a tool for building generic, hybrid, divide & conquer algorithms. , 0, , .		0
403	Blueprint and First Experiences Bridging Hardware Virtualization and Global Grids for Advanced Scientific Computing: Designing and Building a Global Edge Services Framework (ESF) for OSG, EGEE, and LCG. , 2006, , .		0
404	Virtual playgrounds: managing virtual resources in the grid. , 2006, , .		0
405	Communicating Security Assertions over the GridFTP Control Channel. , 2008, , .		0
406	In search of simplicity: a selfâ€organizing group communication overlay. Concurrency Computation Practice and Experience, 2010, 22, 788-815.	1.4	0
407	How Do I Model State? Let Me Count the Ways. Queue, 2009, 7, 54-55.	0.8	0
408	Globalâ€scale distributed I/O with ParaMEDIC. Concurrency Computation Practice and Experience, 2010, 22, 2266-2281.	1.4	0
409	NONUS: A No-Onus Platform for Generating Grant Reports. , 2010, , .		0
410	Message from the chairpersons. , 2011, , .		0
411	Distributed tools deployment and management for multiple galaxy instances in globus genomics. , 2013, , .		0
412	A community-oriented workflow reuse and recommendation technique. International Journal of Business Process Integration and Management, 2015, 7, 197.	0.2	0
413	Impact on US Gasoline Prices of Eliminating Biofuels Production: An Equilibrium Analysis. SSRN Electronic Journal, 0, , .	0.4	0
414	Aligning Multiple RNA Sequences. Automated Reasoning Series, 1991, , 231-247.	0.5	0

#	Article	IF	Citations
415	High-Performance Computational Grids. , 1998, , 17-18.		0
416	Deep Neural Network Training with Distributed K-FAC. IEEE Transactions on Parallel and Distributed Systems, 2022, , 1-1.	4.0	0
417	Understanding Effectiveness of Multi-Error-Bounded Lossy Compression for Preserving Ranges of Interest in Scientific Analysis. , 2021, , .		0