

Zhihui Du

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

117
papers

14,533
citations

28
h-index

120
g-index

152
ext. papers

17,653
ext. citations

3.7
avg, IF

5.39
L-index

#	Paper	IF	Citations
117	SPIIR online coherent pipeline to search for gravitational waves from compact binary coalescences. <i>Physical Review D</i> , 2022 , 105,	4.9	2
116	Interactive Graph Stream Analytics in Arkouda. <i>Algorithms</i> , 2021 , 14, 221	1.8	0
115	Scalable Data Storage Design for Nonstationary IoT Environment With Adaptive Security and Reliability. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 10171-10188	10.7	25
114	QoS-Aware and Fault-Tolerant Replica Placement. <i>Lecture Notes in Computer Science</i> , 2020 , 157-172	0.9	0
113	HoneyDOC: An Efficient Honeytrap Architecture Enabling All-Round Design. <i>IEEE Journal on Selected Areas in Communications</i> , 2019 , 37, 683-697	14.2	13
112	AstroServ: A Distributed Database for Serving Large-Scale Full Life-Cycle Astronomical Data. <i>Lecture Notes in Computer Science</i> , 2019 , 44-55	0.9	1
111	Data Management in Time-Domain Astronomy: Requirements and Challenges. <i>Lecture Notes in Computer Science</i> , 2019 , 32-43	0.9	
110	An Efficient Parallel Framework to Analyze Astronomical Sky Survey Data. <i>Lecture Notes in Computer Science</i> , 2019 , 67-77	0.9	
109	A Frequency Scaling Based Performance Indicator Framework for Big Data Systems. <i>Lecture Notes in Computer Science</i> , 2019 , 19-35	0.9	
108	Short-Timescale Gravitational Microlensing Events Prediction with ARIMA-LSTM and ARIMA-GRU Hybrid Model. <i>Lecture Notes in Computer Science</i> , 2019 , 224-238	0.9	1
107	Enabling an Anatomic View to Investigate Honeytrap Systems: A Survey. <i>IEEE Systems Journal</i> , 2018 , 12, 3906-3919	4.3	24
106	Experimental Analysis of Secret Sharing Schemes for Cloud Storage Based on RNS. <i>Communications in Computer and Information Science</i> , 2018 , 370-383	0.3	11
105	Analysis of secured distributed cloud data storage based on multilevel RNS 2018 ,		2
104	E-Zone: A Faster Neighbor Point Query Algorithm for Matching Spatial Objects. <i>Lecture Notes in Computer Science</i> , 2018 , 473-479	0.9	1
103	Energy Consumption and Quality of Service Optimization in Containerized Cloud Computing 2018 ,		3
102	Discovering frequent induced subgraphs from directed networks. <i>Intelligent Data Analysis</i> , 2018 , 22, 1279-1296	1.1	1
101	NFD: Toward Real-time Mining of Short-timescale Gravitational Microlensing Events. <i>Publications of the Astronomical Society of the Pacific</i> , 2018 , 130, 104504	5	0

100	Site preferences of alloying transition metal elements in Ni-based superalloy: A first-principles study. <i>Chinese Physics B</i> , 2018 , 27, 097102	1.2	2
99	Program power profiling based on phase behaviors. <i>Sustainable Computing: Informatics and Systems</i> , 2018 , 19, 341-350	3	1
98	GPU-acceleration on a low-latency binary-coalescence gravitational wave search pipeline. <i>Computer Physics Communications</i> , 2018 , 231, 62-71	4.2	9
97	Robot Cloud: Bridging the power of robotics and cloud computing. <i>Future Generation Computer Systems</i> , 2017 , 74, 337-348	7.5	51
96	Versatile virtual honeynet management framework. <i>IET Information Security</i> , 2017 , 11, 38-45	1.4	12
95	. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2017 , 28, 2674-2688	3.7	63
94	Effects of waveform model systematics on the interpretation of GW150914. <i>Classical and Quantum Gravity</i> , 2017 , 34, 104002	3.3	74
93	Modeling the Power Variability of Core Speed Scaling on Homogeneous Multicore Systems. <i>Scientific Programming</i> , 2017 , 2017, 1-13	1.4	3
92	BigDataBench-S: An Open-Source Scientific Big Data Benchmark Suite 2017 ,		5
91	GW170104: Observation of a 50-Solar-Mass Binary Black Hole Coalescence at Redshift 0.2. <i>Physical Review Letters</i> , 2017 , 118, 221101	7.4	1609
90	First narrow-band search for continuous gravitational waves from known pulsars in advanced detector data. <i>Physical Review D</i> , 2017 , 96,	4.9	39
89	First low-frequency Einstein@Home all-sky search for continuous gravitational waves in Advanced LIGO data. <i>Physical Review D</i> , 2017 , 96,	4.9	54
88	A Smart Visual Analysis Solution for MOOC Data 2017 ,		1
87	Real-Time Anomaly Detection of Short-Time-Scale GWAC Survey Light Curves 2017 ,		5
86	Investigating the Statistical Distribution of Learning Coverage in MOOCs. <i>Information (Switzerland)</i> , 2017 , 8, 150	2.6	
85	Numerical relativity and gravitational wave astronomy. <i>Scientia Sinica: Physica, Mechanica Et Astronomica</i> , 2017 , 47, 010405	1.5	2
84	Resource Management in Virtualized Clouds. <i>Scientific Programming</i> , 2016 , 2016, 1-2	1.4	
83	LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914. <i>Astrophysical Journal Letters</i> , 2016 , 826, L13	7.9	183

82	All-sky search for long-duration gravitational wave transients with initial LIGO. <i>Physical Review D</i> , 2016 , 93,	4.9	27
81	Search of the Orion spur for continuous gravitational waves using a loosely coherent algorithm on data from LIGO interferometers. <i>Physical Review D</i> , 2016 , 93,	4.9	14
80	First low frequency all-sky search for continuous gravitational wave signals. <i>Physical Review D</i> , 2016 , 93,	4.9	29
79	GW150914: First results from the search for binary black hole coalescence with Advanced LIGO. <i>Physical Review D</i> , 2016 , 93,	4.9	253
78	Search for transient gravitational waves in coincidence with short-duration radio transients during 2007–2013. <i>Physical Review D</i> , 2016 , 93,	4.9	10
77	High-energy neutrino follow-up search of gravitational wave event GW150914 with ANTARES and IceCube. <i>Physical Review D</i> , 2016 , 93,	4.9	80
76	GW150914: Implications for the Stochastic Gravitational-Wave Background from Binary Black Holes. <i>Physical Review Letters</i> , 2016 , 116, 131102	7.4	188
75	GW150914: The Advanced LIGO Detectors in the Era of First Discoveries. <i>Physical Review Letters</i> , 2016 , 116, 131103	7.4	328
74	SUPPLEMENT: LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914 (2016, ApJL, 826, L13). <i>Astrophysical Journal, Supplement Series</i> , 2016 , 225, 8	8	38
73	Observing gravitational-wave transient GW150914 with minimal assumptions. <i>Physical Review D</i> , 2016 , 93,	4.9	94
72	Tests of General Relativity with GW150914. <i>Physical Review Letters</i> , 2016 , 116, 221101	7.4	837
71	Properties of the Binary Black Hole Merger GW150914. <i>Physical Review Letters</i> , 2016 , 116, 241102	7.4	515
70	A new parallelization scheme for adaptive mesh refinement. <i>Journal of Computational Science</i> , 2016 , 16, 79-88	3.4	10
69	ASTROPHYSICAL IMPLICATIONS OF THE BINARY BLACK HOLE MERGER GW150914. <i>Astrophysical Journal Letters</i> , 2016 , 818, L22	7.9	512
68	Observation of Gravitational Waves from a Binary Black Hole Merger. <i>Physical Review Letters</i> , 2016 , 116, 061102	7.4	6108
67	Dynamic Hybrid Honeypot System Based Transparent Traffic Redirection Mechanism. <i>Lecture Notes in Computer Science</i> , 2016 , 311-319	0.9	0
66	A New Parallel Method for Binary Black Hole Simulations. <i>Scientific Programming</i> , 2016 , 2016, 1-14	1.4	3
65	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. <i>Classical and Quantum Gravity</i> , 2016 , 33,	3.3	155

64	Searching for stochastic gravitational waves using data from the two colocated LIGO Hanford detectors. <i>Physical Review D</i> , 2015 , 91,	4.9	26
63	Directed search for gravitational waves from Scorpius X-1 with initial LIGO data. <i>Physical Review D</i> , 2015 , 91,	4.9	38
62	Characterization of the LIGO detectors during their sixth science run. <i>Classical and Quantum Gravity</i> , 2015 , 32, 115012	3.3	790
61	Advanced LIGO. <i>Classical and Quantum Gravity</i> , 2015 , 32, 074001	3.3	1098
60	WEC: Improving Durability of SSD Cache Drives by Caching Write-Efficient Data. <i>IEEE Transactions on Computers</i> , 2015 , 64, 3304-3316	2.5	14
59	SEARCHES FOR CONTINUOUS GRAVITATIONAL WAVES FROM NINE YOUNG SUPERNOVA REMNANTS. <i>Astrophysical Journal</i> , 2015 , 813, 39	4.7	58
58	New techniques for mining frequent patterns in unordered trees. <i>IEEE Transactions on Cybernetics</i> , 2015 , 45, 1113-25	10.2	22
57	Modeling the learning behaviors of massive open online courses 2015 ,		5
56	Efficient Particle-mesh Spreading on GPUs. <i>Procedia Computer Science</i> , 2015 , 51, 120-129	1.6	3
55	Gravitational wave astrophysics, data analysis and multimessenger astronomy. <i>Science China: Physics, Mechanics and Astronomy</i> , 2015 , 58, 1	3.6	4
54	Taxonomy of honeynet solutions 2015 ,		9
53	A green-aware virtual machine migration strategy for sustainable datacenter powered by renewable energy. <i>Simulation Modelling Practice and Theory</i> , 2015 , 58, 3-14	3.9	20
52	Narrow-band search of continuous gravitational-wave signals from Crab and Vela pulsars in Virgo VSR4 data. <i>Physical Review D</i> , 2015 , 91,	4.9	32
51	Adaptive and Flexible Virtual Honeynet. <i>Lecture Notes in Computer Science</i> , 2015 , 1-17	0.9	4
50	GPU-assisted hybrid network traffic model 2014 ,		7
49	Improved upper limits on the stochastic gravitational-wave background from 2009-2010 LIGO and Virgo data. <i>Physical Review Letters</i> , 2014 , 113, 231101	7.4	74
48	A simulation cloud monitoring framework and its evaluation model. <i>Simulation Modelling Practice and Theory</i> , 2013 , 38, 20-37	3.9	3
47	Energy-Efficient Scheduling for Best-Effort Interactive Services to Achieve High Response Quality 2013 ,		5

46	Priori information and sliding window based prediction algorithm for energy-efficient storage systems in cloud. <i>Simulation Modelling Practice and Theory</i> , 2013 , 39, 3-19	3.9	3
45	Online Random Seeking in FLV Video Based on File Cutting. <i>Advances in Intelligent Systems and Computing</i> , 2013 , 679-688	0.4	
44	An adaptive model-free resource and power management approach for multi-tier cloud environments. <i>Journal of Systems and Software</i> , 2012 , 85, 1135-1146	3.3	21
43	Efficient Data Migration to Conserve Energy in Streaming Media Storage Systems. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2012 , 23, 2081-2093	3.7	10
42	GPU-accelerated low-latency real-time searches for gravitational waves from compact binary coalescence. <i>Classical and Quantum Gravity</i> , 2012 , 29, 235018	3.3	11
41	Self-adaptive QoS-aware resource allocation and reservation management in virtualised environments. <i>International Journal of Computational Science and Engineering</i> , 2012 , 7, 308	0.4	2
40	A Waterfall Model to Achieve Energy Efficient Tasks Mapping for Large Scale GPU Clusters 2011 ,		15
39	Design of a Robot Cloud Center 2011 ,		27
38	Research on Adaptive QoS-Aware Resource Reservation Management in Cloud Service Environments 2011 ,		3
37	Typical Virtual Appliances: An optimized mechanism for virtual appliances provisioning and management. <i>Journal of Systems and Software</i> , 2011 , 84, 377-387	3.3	17
36	Optimized QoS-aware replica placement heuristics and applications in astronomy data grid. <i>Journal of Systems and Software</i> , 2011 , 84, 1224-1232	3.3	11
35	A content and user-oblivious video-recommendation algorithm. <i>Simulation Modelling Practice and Theory</i> , 2011 , 19, 1895-1912	3.9	5
34	A gravitational wave observatory operating beyond the quantum shot-noise limit. <i>Nature Physics</i> , 2011 , 7, 962-965	16.2	554
33	An adaptive QoS management framework for VoD cloud service centers 2010 ,		1
32	A tile-based parallel Viterbi algorithm for biological sequence alignment on GPU with CUDA 2010 ,		1
31	Robot as a Service in Cloud Computing 2010 ,		112
30	Design and implementation of adaptive resource co-allocation approaches for cloud service environments 2010 ,		1
29	On accelerating iterative algorithms with CUDA: A case study on Conditional Random Fields training algorithm for biological sequence alignment 2010 ,		1

28	A stepwise optimization algorithm of clustered streaming media servers. <i>Journal of Systems and Software</i> , 2009 , 82, 1344-1361	3.3	3
27	V3COCA: An effective clustering algorithm for complicated objects and its application in breast cancer research and diagnosis. <i>Simulation Modelling Practice and Theory</i> , 2009 , 17, 454-470	3.9	5
26	The Triangular Pyramid Scheduling Model and algorithm for PDES in Grid. <i>Simulation Modelling Practice and Theory</i> , 2009 , 17, 1678-1689	3.9	5
25	Optimizing Message Passing Programs Based on Task Section Duplication 2009 ,		1
24	A Partition-Merge Based Cache-Conscious Parallel Sorting Algorithm for CMP with Shared Cache 2009 ,		3
23	Adaptive Resource Management in Grid Environment 2009 , 109-117		
22	QoS in Grid Computing 2009 , 75-83		
21	A Prediction Based CMP Cache Migration Policy 2008 ,		1
20	SOAVM: A Service-Oriented Virtualization Management System with Automated Configuration 2008 ,		2
19	Research and Application on Virtualization Service Oriented Infrastructure for Networkitized M&S 2008 ,		1
18	Modeling and Simulation of Virtualized Autonomic Service Centers. <i>Simulation</i> , 2008 , 84, 119-136	1.2	3
17	The Dynamic Priority Based Scheduling Algorithm for Hard Real-Time Heterogeneous Cmp Application. <i>Journal of Algorithms and Computational Technology</i> , 2008 , 2, 409-427	0.7	1
16	Virtualization-based autonomic resource management for multi-tier Web applications in shared data center. <i>Journal of Systems and Software</i> , 2008 , 81, 1591-1608	3.3	50
15	An autonomic provisioning framework for outsourcing data center based on virtual appliances. <i>Cluster Computing</i> , 2008 , 11, 229-245	2.1	18
14	Dynamic Dataflow Driven Service Composition Mechanism for Astronomy Data Processing 2007 ,		2
13	A Service Level QoS Mechanism and Algorithm for Data Distribution and Backup in an Grid Based Astronomy Data Management System 2007 ,		2
12	QoS Enhancement for PDES Grid Based on Time Series Prediction 2007 ,		4
11	A Pipeline Virtual Service Pre-Scheduling Pattern and its Application in Astronomy Data Processing. <i>Simulation</i> , 2007 , 83, 123-132	1.2	2

10	Optimizing Service Data Transmission in an OGSA Based Grid System. <i>Journal of Algorithms and Computational Technology</i> , 2007 , 1, 251-272	0.7
9	Club theory of the Grid. <i>Concurrency Computation Practice and Experience</i> , 2006 , 18, 1759-1773	1.4
8	A SOA Based Pipeline System to Deal with Astronomy Telescope Data 2006 ,	3
7	Dynamic Service Composition Based on Peer-to-Peer Network 2006 ,	3
6	A User Satisfaction Level Based Multi-objective Optimization Method for Grid Task Scheduling 2006 ,	1
5	Measurement of the fine structure factors and extinction distance by convergent-beam electron diffraction in Co ₃ Ti with and without B doping. <i>Journal of Applied Crystallography</i> , 2000 , 33, 1119-1121	3.8 3
4	Measurement of Debye-Waller factors in Co ₃ Ti by quantitative CBED. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2000 , 56 (Pt 2), 189-92	3
3		7
2	A WS-inspection based decentralized service discovery service in OGSA	1
1		2