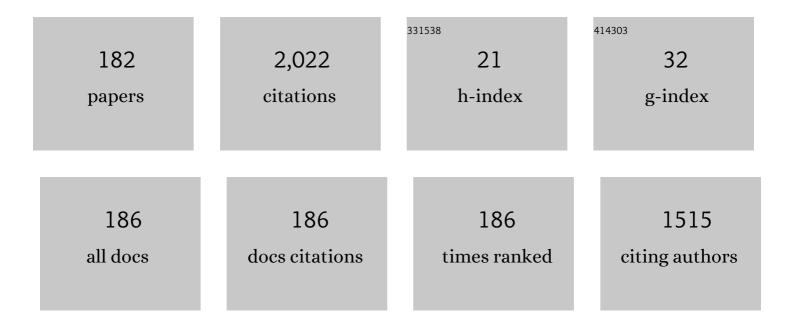
Marlon E Pierce

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6980494/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Apache airavata. , 2011, , .		115
2	Science gateways today and tomorrow: positive perspectives of nearly 5000 members of the research community. Concurrency Computation Practice and Experience, 2015, 27, 4252-4268.	1.4	75
3	Community Science Exemplars in SEAGrid Science Gateway: Apache Airavata Based Implementation of Advanced Infrastructure. Procedia Computer Science, 2016, 80, 1927-1939.	1.2	66
4	The Open Grid Computing Environments collaboration: portlets and services for science gateways. Concurrency Computation Practice and Experience, 2007, 19, 921-942.	1.4	50
5	Path-integral Monte Carlo simulation of the second layer of4Headsorbed on graphite. Physical Review B, 1999, 59, 3802-3814.	1.1	47
6	Fault tolerant high performance Information Services for dynamic collections of Grid and Web services. Future Generation Computer Systems, 2007, 23, 317-337.	4.9	45
7	Monolayer SolidH4eClusters on Graphite. Physical Review Letters, 1999, 83, 5314-5317.	2.9	44
8	Phase Diagram of Second Layer ofH4eAdsorbed on Graphite. Physical Review Letters, 1998, 81, 156-159.	2.9	42
9	Web Service Infrastructure for Chemoinformatics. Journal of Chemical Information and Modeling, 2007, 47, 1303-1307.	2.5	41
10	Apache Airavata: design and directions of a science gateway framework. Concurrency Computation Practice and Experience, 2015, 27, 4282-4291.	1.4	38
11	Role of substrate corrugation in helium monolayer solidification. Physical Review B, 2000, 62, 5228-5237.	1.1	37
12	Information Services for Dynamically Assembled Semantic Grids. , 2005, , .		35
13	iSERVO: Implementing the International Solid Earth Research Virtual Observatory by Integrating Computational Grid and Geographical Information Web Services. Pure and Applied Geophysics, 2006, 163, 2281-2296.	0.8	33
14	Automated Estimation and Tools to Extract Positions, Velocities, Breaks, and Seasonal Terms From Daily GNSS Measurements: Illuminating Nonlinear Salton Trough Deformation. Earth and Space Science, 2020, 7, e2019EA000644.	1.1	32
15	Building and applying geographical information system Grids. Concurrency Computation Practice and Experience, 2008, 20, 1653-1695.	1.4	31
16	BioDrugScreen: a computational drug design resource for ranking molecules docked to the human proteome. Nucleic Acids Research, 2010, 38, D765-D773.	6.5	31
17	The Apache Airavata Application Programming Interface: Overview and Evaluation with the UltraScan Science Gateway. , 2014, , .		29
18	Advances in Cheminformatics Methodologies and Infrastructure to Support the Data Mining of Large, Heterogeneous Chemical Datasets. Current Computer-Aided Drug Design, 2010, 6, 50-67.	0.8	28

#	Article	IF	CITATIONS
19	UAVSAR observations of triggered slip on the Imperial, Superstition Hills, and East Elmore Ranch Faults associated with the 2010 M 7.2 El Mayorâ€Cucapah earthquake. Geochemistry, Geophysics, Geosystems, 2014, 15, 815-829.	1.0	28
20	Apache Airavata: Design and Directions of a Science Gateway Framework. , 2014, , .		27
21	The Gateway computational Web portal. Concurrency Computation Practice and Experience, 2002, 14, 1411-1426.	1.4	26
22	VLab: collaborative Grid services and portals to support computational material science. Concurrency Computation Practice and Experience, 2007, 19, 1717-1728.	1.4	26
23	XML Metadata Services. Concurrency Computation Practice and Experience, 2008, 20, 801-823.	1.4	26
24	Building the PolarGrid portal using web 2.0 and OpenSocial. , 2009, , .		26
25	Algorithms and the Grid. Computing and Visualization in Science, 2009, 12, 115-124.	1.2	26
26	Using Service-Based GIS to Support Earthquake Research and Disaster Response. Computing in Science and Engineering, 2012, 14, 21-30.	1.2	26
27	Real Time Streaming Data Grid Applications. , 2006, , 253-267.		24
28	Building messaging substrates for Web and Grid applications. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2005, 363, 1757-1773.	1.6	23
29	A Framework for Secure End-to-End Delivery of Messages in Publish/Subscribe Systems. , 2006, , .		23
30	BioVLAB-Microarray: Microarray Data Analysis in Virtual Environment. , 2008, , .		23
31	The QuakeSim Project: Web Services for Managing Geophysical Data and Applications. Pure and Applied Geophysics, 2008, 165, 635-651.	0.8	22
32	Highâ€performance hybrid information service architecture. Concurrency Computation Practice and Experience, 2010, 22, 2095-2123.	1.4	22
33	Potential for a large earthquake near Los Angeles inferred from the 2014 La Habra earthquake. Earth and Space Science, 2015, 2, 378-385.	1.1	22
34	Supporting Science Gateways Using Apache Airavata and SciGaP Services. , 2018, , .		22
35	Community Organizations: Changing the Culture in Which Research Software Is Developed and Sustained. Computing in Science and Engineering, 2019, 21, 8-24.	1.2	22
36	Grid services for earthquake science. Concurrency Computation Practice and Experience, 2002, 14, 371-393.	1.4	21

#	Article	IF	CITATIONS
37	Open grid computing environments. , 2010, , .		20
38	Integrating Apache Airavata with Docker, Marathon, and Mesos. Concurrency Computation Practice and Experience, 2016, 28, 1952-1959.	1.4	19
39	Managing authentication and authorization in distributed science gateway middleware. Future Generation Computer Systems, 2020, 111, 780-785.	4.9	18
40	An Overview of the XSEDE Extended Collaborative Support Program. Communications in Computer and Information Science, 2016, , 3-13.	0.4	18
41	Science Gateways: The Long Road to the Birth of an Institute. , 2017, , .		18
42	Implementing a caching and tiling map server: a Web 2.0 case study. , 2007, , .		17
43	Ground Deformation Data from GEER Investigations of Ridgecrest Earthquake Sequence. Seismological Research Letters, 2020, 91, 2024-2034.	0.8	17
44	Message-based cellular peer-to-peer grids: foundations for secure federation and autonomic services. Future Generation Computer Systems, 2005, 21, 401-415.	4.9	16
45	A Credential Store for Multi-tenant Science Gateways. , 2014, , .		16
46	Virtual laboratory for planetary materials: System service architecture overview. Physics of the Earth and Planetary Interiors, 2007, 163, 321-332.	0.7	15
47	Using Web 2.0 for scientific applications and scientific communities. Concurrency Computation Practice and Experience, 2009, 21, 583-603.	1.4	15
48	Jetstream2: Accelerating cloud computing via Jetstream. , 2021, , .		15
49	Management of real-time streaming data Grid services. Concurrency Computation Practice and Experience, 2007, 19, 983-998.	1.4	14
50	Apache Airavata as a Laboratory. , 2015, , .		14
51	Clustering Analysis Methods for GNSS Observations: A Dataâ€Driven Approach to Identifying California's Major Faults. Earth and Space Science, 2021, 8, e2021EA001680.	1.1	14
52	Automatic Task Re-organization in MapReduce. , 2011, , .		13
53	Twitter bootstrap and AngularJS: Frontend frameworks to expedite science gateway development. , 2013, , .		13
54	Management of Real-Time Streaming Data Grid Services. Lecture Notes in Computer Science, 2005, , 3-12.	1.0	13

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55	Quantum films adsorbed on graphite: Third and fourth helium layers. Physical Review B, 2001, 63, .	1.1	12
56	Designing a road map for geoscience workflows. Eos, 2012, 93, 225-226.	0.1	12
57	The Science Gateways Community Institute at Two Years. , 2018, , .		12
58	Science gateways: Sustainability via on-campus teams. Future Generation Computer Systems, 2019, 94, 97-102.	4.9	12
59	XML Metadata Services. , 2006, , .		11
60	VLAB: Web services, portlets, and workflows for enabling cyber-infrastructure in computational mineral physics. Physics of the Earth and Planetary Interiors, 2007, 163, 333-346.	0.7	11
61	The GenApp framework integrated with Airavata for managed compute resource submissions. Concurrency Computation Practice and Experience, 2015, 27, 4292-4303.	1.4	11
62	A Web Services-Based Universal Approach to Heterogeneous Fault Databases. Computing in Science and Engineering, 2005, 7, 51-57.	1.2	10
63	The QuakeSim Project: Web Services for Managing Geophysical Data and Applications. , 2008, , 635-651.		10
64	Cyberaide JavaScript: A JavaScript Commodity Grid Kit. , 2008, , .		10
65	Grids challenged by a Web 2.0 and multicore sandwich. Concurrency Computation Practice and Experience, 2009, 21, 265-280.	1.4	10
66	Jetstream—Early operations performance, adoption, and impacts. Concurrency Computation Practice and Experience, 2019, 31, e4683.	1.4	10
67	Interacting Data Services for Distributed Earthquake Modeling. Lecture Notes in Computer Science, 2003, , 863-872.	1.0	9
68	Analysis of streaming GPS measurements of surface displacement through a web services environment. , 2007, , .		8
69	Apache Airavata security manager: Authentication and authorization implementations for a multi-tenant escience framework. , 2016, , .		8
70	An extensible Django-based web portal for Apache Airavata. , 2020, , .		8
71	Scalable, fault-tolerant management in a service oriented architecture. , 2007, , .		7
72	Architecture, performance, and scalability of a real-time global positioning system data grid. Physics of the Earth and Planetary Interiors, 2007, 163, 347-359.	0.7	7

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73	SWARM: Scheduling Large-Scale Jobs over the Loosely-Coupled HPC Clusters. , 2008, , .		7
74	Supporting Cloud Computing with the Virtual Block Store System. , 2009, , .		7
75	Distributed web security for science gateways. , 2011, , .		7
76	E-DECIDER: Using Earth Science Data and Modeling Tools to Develop Decision Support for Earthquake Disaster Response. Pure and Applied Geophysics, 2015, 172, 2305-2324.	0.8	7
77	Gathering requirements for advancing simulations in HPC infrastructures via science gateways. Future Generation Computer Systems, 2018, 82, 544-554.	4.9	7
78	Fracture Advancing Step Tectonics Observed in the Yuha Desert and Ocotillo, CA, Following the 2010 M _w 7.2 El Mayorâ€Cucapah Earthquake. Earth and Space Science, 2018, 5, 456-472.	1.1	7
79	Targeted High-Resolution Structure from Motion Observations over the MwÂ6.4 and 7.1 Ruptures of the Ridgecrest Earthquake Sequence. Seismological Research Letters, 2020, 91, 2087-2095.	0.8	7
80	GridFTP and Parallel TCP Support in NaradaBrokering. Lecture Notes in Computer Science, 2005, , 93-102.	1.0	7
81	Ultrascan solution modeler. , 2012, , .		7
82	Virtual Clusters in the Jetstream Cloud. , 2019, , .		7
83	QuakeSim: Enabling Model Interactions in Solid Earth Science Sensor Webs. , 2007, , .		6
84	Social networking for scientists using tagging and shared bookmarks: a Web 2.0 application. , 2008, , .		6
85	Building a Distributed Block Storage System for Cloud Infrastructure. , 2010, , .		6
86	Authentication and Authorization Considerations for a Multi-tenant Service. , 2015, , .		6
87	Using the Jetstream Research Cloud to Provide Science Gateway Resources. , 2017, , .		6
88	Making scientific applications as web services. Computing in Science and Engineering, 2004, 6, 93-96.	1.2	5
89	Building Problem-Solving Environments with Application Web Service toolkits. Future Generation Computer Systems, 2005, 21, 856-867.	4.9	5
90	Generative topographic mapping by deterministic annealing. Procedia Computer Science, 2010, 1, 47-56.	1.2	5

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91	Virtual laboratory for planetary materials (<i>VLab</i>). , 2011, , .		5
92	Advantages to Geoscience and Disaster Response from QuakeSim Implementation of Interferometric Radar Maps in a GIS Database System. Pure and Applied Geophysics, 2015, 172, 2295-2304.	0.8	5
93	QuakeSim and the Solid Earth Research Virtual Observatory. , 2006, , 2263-2279.		5
94	A Federated Approach to Information Management in Grids. International Journal of Web Services Research, 2010, 7, 65-98.	0.5	5
95	QuakeSim and the Solid Earth Research Virtual Observatory. Pure and Applied Geophysics, 2006, 163, 2263-2279.	0.8	4
96	Providing Portlet-Based Client Access to CIMA-Enabled Crystallographic Instruments, Sensors, and Data. , 2006, , .		4
97	GTLAB: Grid Tag Libraries Supporting Workflows within Science Gateways. , 2007, , .		4
98	Web 2.0 for E-Science Environments. , 2007, , .		4
99	QuakeSim: Web Services, Portals, and Infrastructure for Geophysics. Aerospace Conference Proceedings IEEE, 2008, , .	0.0	4
100	Modeling and On-the-Fly Solutions for Solid Earth Sciences: Web Services and Data Portal for Earthquake Early Warning System. , 2008, , .		4
101	Open community development for science gateways with apache rave. , 2011, , .		4
102	Who Cares about Science Gateways? A Large-Scale Survey of Community Use and Needs. , 2014, , .		4
103	Building a Science Gateway For Processing and Modeling Sequencing Data Via Apache Airavata. , 2018, 2018, .		4
104	LSU Computational System Biology Gateway for Education. , 2019, , .		4
105	Cyberinfrastructure, Cloud Computing, Science Gateways, Visualization, and Cyberinfrastructure Ease of Use. , 2018, , 1063-1074.		4
106	Towards dependable grid and web services. Ubiquity, 2003, 2003, 3-3.	0.2	4
107	INTEGRATED MODEL OF MODELS FOR GLOBAL FLOOD ALERTING. , 2020, , .		4
108	Automating metadata Web service deployment for problem solving environments. Future Generation Computer Systems, 2005, 21, 910-919.	4.9	3

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109	Scalable, fault-tolerant management of Grid Services. , 2007, , .		3
110	Information Federation in Grids. , 2008, , .		3
111	The Quakesim portal and services: new approaches to science gateway development techniques. Concurrency Computation Practice and Experience, 2010, 22, 1732-1749.	1.4	3
112	UltraScan gateway enhancements. , 2011, , .		3
113	A Distributed Approach to Computational Earthquake Science: Opportunities and Challenges. Computing in Science and Engineering, 2012, 14, 31-42.	1.2	3
114	QuakeSim: Integrated modeling and analysis of geologic and remotely sensed data. , 2012, , .		3
115	Integrating Science Gateways with XSEDE Security. , 2014, , .		3
116	Multihazard Simulation and Cyberinfrastructure. Pure and Applied Geophysics, 2015, 172, 2083-2085.	0.8	3
117	Web Services for Dynamic Coloring of UAVSAR Images. Pure and Applied Geophysics, 2015, 172, 2325-2332.	0.8	3
118	GSoC 2015 student contributions to GenApp and Airavata. Concurrency Computation Practice and Experience, 2016, 28, 1960-1970.	1.4	3
119	Django Content Management System Evaluation and Integration with Apache Airavata. , 2018, , .		3
120	Improving access to geodetic imaging crustal deformation data using GeoGateway. Earth Science Informatics, 0, , 1.	1.6	3
121	Enabling dark energy survey science analysis with simulations on XSEDE resources. , 2013, , .		3
122	Towards dependable grid and web services. Ubiquity, 2003, 2003, 3-3.	0.2	3
123	Custos: Security Middleware for Science Gateways. , 2020, , .		3
124	Improving usability and accessibility of cheminformatics tools for chemists through cyberinfrastructure and education. In Silico Biology, 2011, 11, 41-60.	0.4	3
125	Building Sensor Filter Grids: Information Architecture for the Data Deluge. , 2005, , .		2
126	Grid Portal System Based on GPIR. , 2006, , .		2

Grid Portal System Based on GPIR. , 2006, , . 126

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127	Collective Collaborative Tagging System. , 2008, , .		2
128	SQMD: Architecture for Scalable, Distributed Database System Built on Virtual Private Servers. , 2008, , .		2
129	Dynamic Resource-Critical Workflow Scheduling in Heterogeneous Environments. Lecture Notes in Computer Science, 2009, , 1-15.	1.0	2
130	Web Service andWorkflow Abstractions to Large Scale Nuclear Physics Calculations. , 2012, , .		2
131	GenApp Module Execution and Airavata Integration. , 2014, , .		2
132	Anatomy of the SEAGrid Science Gateway. , 2016, , .		2
133	Radar Determination of Fault Slip and Location in Partially Decorrelated Images. Pure and Applied Geophysics, 2017, 174, 2295-2310.	0.8	2
134	Science Gateways Incubator: Software Sustainability Meets Community Needs. , 2017, , .		2
135	Evaluating NextCloud as a File Storage for Apache Airavata. , 2018, , .		2
136	A New Science Gateway to Provide Decision Support on Carbon Capture and Storage Technologies. , 2018, , .		2
137	InterACTWEL Science Gateway for Adaptation Planning in Food-Energy-Water Sectors of Local Communities. , 2019, , .		2
138	US-SOMO cluster methods. , 2013, , .		2
139	Cyberinfrastructure as a Platform to Facilitate Effective Collaboration between Institutions and Support Collaboratories. , 2016, , .		2
140	A Retrospective on the Development of Web Service Specifications. , 2008, , 22-49.		2
141	Cyberinfrastructure, Cloud Computing, Science Gateways, Visualization, and Cyberinfrastructure Ease of Use. Advances in Computer and Electrical Engineering Book Series, 2019, , 157-170.	0.2	2
142	Messaging in web service grid with applications to geographical information systems. Advances in Parallel Computing, 2005, 14, 305-331.	0.3	1
143	GTLAB: Grid Tag Libraries Supporting Workflows within Science Gateways. , 2007, , .		1
144	Special Issue Editorial Introduction: Grids and Geospatial Information Systems. Concurrency Computation Practice and Experience, 2008, 20, 1611-1615.	1.4	1

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145	Open Grid Computing Environment's Workflow Suite for E-Science Projects. , 2008, , .		1
146	QuakeSim: Efficient Modeling of Sensor Web Data in a Web Services Environment. Aerospace Conference Proceedings IEEE, 2008, , .	0.0	1
147	The Problem Solving Environments of TeraGrid, Science Gateways, and the Intersection of the Two. , 2008, , .		1
148	AVATS: Audio-video and textual synchronization. , 2009, , .		1
149	Integrating chemistry scholarship with web architectures, grid computing and semantic web. , 2010, , .		1
150	Investigating the Use of Gadgets, Widgets, and OpenSocial to Build Science Gateways. , 2011, , .		1
151	Transitioning BioVLab cloud workbench to a science gateway. , 2011, , .		1
152	Authoring a Science Gateway Cookbook. , 2013, , .		1
153	GeoGateway: A system for analysis of UAVSAR data products. , 2016, , .		1
154	Science Gateway Implementation at the University of South Dakota. , 2018, , .		1
155	Using a Science Gateway to Deliver SimVascular Software as a Service for Classroom Instruction. , 2018, , .		1
156	How the Science Gateways Community Institute Supports Those Who Are Creating Websites to Access Shared Resources. , 2019, , .		1
157	The Distant Reader. , 2019, , .		1
158	The Quakes Concept for Observing and Mitigating Natural Disasters. , 2019, , .		1
159	User-Centric Design and Evolvable Architecture for Science Gateways: A Case Study. , 2021, , .		1
160	Buried Aseismic Slip and Offâ€Fault Deformation on the Southernmost San Andreas Fault Triggered by the 2010 El Mayor Cucapah Earthquake Revealed by UAVSAR. Earth and Space Science, 2021, 8, e2021EA001682.	1.1	1
161	Radar Determination of Fault Slip and Location in Partially Decorrelated Images. Pageoph Topical Volumes, 2018, , 101-116.	0.2	1
162	Cyberinfrastructure, Science Gateways, Campus Bridging, and Cloud Computing. , 2015, , 6562-6572.		1

162 Cyberinfrastructure, Science Gateways, Campus Bridging, and Cloud Computing., 2015, , 6562-6572.

#	Article	IF	CITATIONS
163	Integrating Hydrologic Models and Earth Observation Data for Global Flood Forecasting and Alerting in Near Real-Time. , 2021, , .		1
164	Custos Secrets: a Service for Managing User-Provided Resource Credential Secrets for Science Gateways. , 2022, , .		1
165	Supporting cloud computing with the virtual block store system. , 2009, , .		Ο
166	Implementation, performance, and science results from a 30.7 TFLOPS IBM BladeCenter cluster. Concurrency Computation Practice and Experience, 2010, 22, 157-174.	1.4	0
167	Cloud computing for geodetic imaging data processing, analysis, and modeling. , 2014, , .		Ο
168	Science gateways - leveraging modeling and simulations in HPC infrastructures via increased usability. , 2015, , .		0
169	Apache Airavata Resource Allocation System. , 2018, , .		Ο
170	Simplifying Access to Campus Resources at Southern Illinois University with a Science Gateway. , 2018, , .		0
171	The CSBG - LSU Gateway. , 2018, , .		0
172	The USD Science Gateway. , 2019, , .		0
173	Common Resource Descriptions for Interoperable Gateway Cyberinfrastructure. , 2021, , .		0
174	Unified Data Access/Query over Integrated Data-views for Decision Making in Geographic Information Systems. , 2009, , 276-298.		0
175	Chaining Data and Visualization Web Services for Decision Making in Information Systems. Lecture Notes in Computer Science, 2013, , 44-53.	1.0	Ο
176	TopPIC Gateway: A Web Gateway for Top-Down Mass Spectrometry Data Interpretation. , 2020, , .		0
177	Toward Interoperable Cyberinfrastructure: Common Descriptions for Computational Resources and Applications. , 2020, , .		Ο
178	A Federated Approach to Information Management in Grids. , 0, , 71-103.		0
179	The Quakes Analytic Center Framework for Addressing Diverse Spatiotemporal Scales of Tectonic and Earthquake Processes. , 2020, , .		0
180	Integrating Science Gateways with Secure Cloud Computing Resources: An Examination of Two Deployment Patterns and Their Requirements. , 2020, , .		0

0

#	Article	IF	CITATIONS
181	Building the RNAMake Gateway on PATh: a Student-Led Design Project. , 2022, , .		0

182 SimVascular Gateway for Education and Research. , 2022, , .