

Brian Bockelman

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

416
citations

1163117

8
h-index

839539

18
g-index

40
all docs

40
docs citations

40
times ranked

608
citing authors

#	ARTICLE	IF	CITATIONS
1	A Roadmap for HEP Software and Computing R&D for the 2020s. Computing and Software for Big Science, 2019, 3, 1.	2.9	85
2	Rucio: Scientific Data Management. Computing and Software for Big Science, 2019, 3, 1.	2.9	74
3	A Science Driven Production Cyberinfrastructure—the Open Science Grid. Journal of Grid Computing, 2011, 9, 201-218.	3.9	44
4	Partial differential equations on products of Sierpinski gaskets. Indiana University Mathematics Journal, 2007, 56, 1361-1376.	0.9	23
5	HEPCloud, a New Paradigm for HEP Facilities: CMS Amazon Web Services Investigation. Computing and Software for Big Science, 2017, 1, 1.	2.9	20
6	Hadoop distributed file system for the Grid. , 2009, , .		18
7	Data Access for LIGO on the OSG. , 2017, , .		18
8	Using Hadoop as a grid storage element. Journal of Physics: Conference Series, 2009, 180, 012047.	0.4	11
9	Any Data, Any Time, Anywhere: Global Data Access for Science. , 2015, , .		11
10	SciTokens. , 2018, , .		11
11	Multipath Forwarding Strategies and SDN Control for Named Data Networking. , 2018, , .		9
12	Principles, technologies, and time: The translational journey of the HTCondor-CE. Journal of Computational Science, 2021, 52, 101213.	2.9	9
13	FOOD WEB CHAOS WITHOUT SUBCHAIN OSCILLATORS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2005, 15, 3481-3492.	1.7	8
14	StashCache. , 2019, , .		8
15	Lark: An effective approach for software-defined networking in high throughput computing clusters. Future Generation Computer Systems, 2017, 72, 105-117.	7.5	7
16	Cache management for large data transfers and multipath forwarding strategies in Named Data Networking. Computer Networks, 2021, 199, 108437.	5.1	7
17	The Case for Using Content-Centric Networking for Distributing High-Energy Physics Software. , 2017, , .		6
18	SciTokens. , 2019, , .		5

#	ARTICLE	IF	CITATIONS
19	WLCG Authorisation from X.509 to Tokens. EPJ Web of Conferences, 2020, 245, 03001.	0.3	5
20	ROOT I/O: The Fast and Furious. Journal of Physics: Conference Series, 2011, 331, 042005.	0.4	4
21	Campus Grids: Bringing Additional Computational Resources to HEP Researchers. Journal of Physics: Conference Series, 2012, 396, 032116.	0.4	4
22	Fast access to columnar, hierarchically nested data via code transformation. , 2017, , .		4
23	Using Gordon to accelerate LHC science. , 2013, , .		2
24	Optimizing High-Latency I/O in CMSSW. Journal of Physics: Conference Series, 2014, 513, 042006.	0.4	2
25	Lark: Bringing Network Awareness to High Throughput Computing. , 2015, , .		2
26	Contributing opportunistic resources to the grid with HTCondor-CE-Bosco. Journal of Physics: Conference Series, 2017, 898, 092026.	0.4	2
27	Accessing Data Federations with CVMFS. Journal of Physics: Conference Series, 2017, 898, 062044.	0.4	2
28	Large Data Transfer Predictability and Forecasting using Application-Aware SDN. , 2018, , .		2
29	Optimized Service Chain Mapping and reduced flow processing with Application-Awareness. , 2018, , .		2
30	Bootstrapping a New LHC Data Transfer Ecosystem. EPJ Web of Conferences, 2019, 214, 04045.	0.3	2
31	Coffea-casa: an analysis facility prototype. EPJ Web of Conferences, 2021, 251, 02061.	0.3	2
32	Adapting LIGO workflows to run in the Open Science Grid. SoftwareX, 2021, 14, 100679.	2.6	2
33	Usage of the Open Science Grid. , 2010, , 267-280.		1
34	Testing the limits of HTTPS single point third party copy transfer over the WAN. EPJ Web of Conferences, 2020, 245, 04025.	0.3	1
35	SDTMA-NDN: Scientific data transfer management architecture using named data networking. , 2017, , .		0
36	Third-party transfers in WLCG using HTTP. EPJ Web of Conferences, 2020, 245, 04031.	0.3	0

#	ARTICLE	IF	CITATIONS
37	SNAG: SDN-Managed Network Architecture for GridFTP Transfers Using Application-Awareness. IEEE/ACM Transactions on Networking, 2022, 30, 1585-1598.	3.8	0
38	SciAuth: A Lightweight End-to-End Capability-Based Authorization Environment for Scientific Computing. , 2022, , .		0