Tony Hey

List of Publications by Year in descending order

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90 papers	3,029 citations	759233 12 h-index	501196 28 g-index
109 all docs	109 docs citations	109 times ranked	2320 citing authors

#	Article	IF	Citations
1	Deep learning methods for obtaining photometric redshift estimations from images. Monthly Notices of the Royal Astronomical Society, 2022, 512, 1696-1709.	4.4	10
2	Scientific machine learning benchmarks. Nature Reviews Physics, 2022, 4, 413-420.	26.6	43
3	The Role of Digital Technologies in Responding to the Grand Challenges of the Natural Environment: The Windermere Accord. Patterns, 2021, 2, 100156.	5.9	6
4	Benchmarking and scalability of machine-learning methods for photometric redshift estimation. Monthly Notices of the Royal Astronomical Society, 2021, 505, 4847-4856.	4.4	15
5	The Fourth Paradigm 10 Years On. Informatik-Spektrum, 2020, 42, 441-447.	1.3	13
6	Machine learning and big scientific data. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190054.	3.4	43
7	Open science decoded. Nature Physics, 2015, 11, 367-369.	16.7	25
8	Data-intensive science: The Terapixel and MODISAzure projects. International Journal of High Performance Computing Applications, 2011, 25, 304-316.	3.7	15
9	2.1 Research Platforms in the Cloud. , 2010, , 67-71.		1
10	Beyond the Data Deluge. Science, 2009, 323, 1297-1298.	12.6	424
11	E-Science, Cyberinfrastructure, and Scholarly Communication. , 2008, , 14-31.		6
12	'e-science and cyberinfrastructure. , 2006, , .		2
13	Augmenting interoperability across scholarly repositories. , 2006, , .		3
14	Web Service Grids: an evolutionary approach. Concurrency Computation Practice and Experience, 2005, 17, 377-389.	2.2	67
15	Cyberinfrastructure for e-Science. Science, 2005, 308, 817-821.	12.6	276
16	The Scientific Imperative. , 2004, , 13-24.		6
17	e-Science and its implications. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2003, 361, 1809-1825.	3.4	61
18	Route map. , 2003, , xv-xvi.		0

#	Article	IF	Citations
19	Waves versus particles. , 2003, , 1-16.		0
20	Heisenberg and uncertainty. , 2003, , 17-34.		0
21	SchrÃ¶dinger and matter waves. , 2003, , 35-46.		1
22	Atoms and nuclei. , 2003, , 47-72.		0
23	Quantum tunnelling. , 2003, , 73-106.		0
24	Pauli and the elements. , 2003, , 107-130.		0
25	Quantum co-operation and superfluids. , 2003, , 131-156.		1
26	Quantum jumps. , 2003, , 157-180.		0
27	Quantum engineering. , 2003, , 181-206.		0
28	Death of a star. , 2003, , 207-226.		0
29	Feynman rules. , 2003, , 227-244.		0
30	Weak photons and strong glue. , 2003, , 245-284.		0
31	Afterword â€“ quantum physics and science fiction. , 2003, , 285-312.		0
32	Performance Engineering, PSEs and the GRID. Scientific Programming, 2002, 10, 3-17.	0.7	1
33	The UK e-Science Core Programme and the Grid. Future Generation Computer Systems, 2002, 18, 1017-1031.	7.5	157
34	The UK e-Science Core Programme and the Grid. Lecture Notes in Computer Science, 2002, , 3-21.	1.3	7
35	E-Science and the Grid. Lecture Notes in Computer Science, 2001, , 23-23.	1.3	0
36	The Development of Parkbench and Performance Prediction. International Journal of High Performance Computing Applications, 2000, 14, 205-215.	3.7	8

#	Article	IF	Citations
37	Richard Feynman and computation. Contemporary Physics, 1999, 40, 257-265.	1.8	21
38	New challenges for Fortran in the next millennium. ACM SIGPLAN Fortran Forum, 1998, 17, 10-12.	0.5	0
39	Realistic parallel performance estimation. Parallel Computing, 1997, 23, 5-21.	2.1	12
40	Do-loop-surface: an abstract representation of parallel program performance. Concurrency and Computation: Practice and Experience, 1996, 8, 205-234.	0.5	1
41	Selected results from the ParkBench Benchmark. Lecture Notes in Computer Science, 1996, , 251-254.	1.3	12
42	A toolkit for optimising parallel performance. Lecture Notes in Computer Science, 1995, , 548-553.	1.3	2
43	The Genesis esprit project â€" An overview. Parallel Computing, 1994, 20, 1605-1612.	2.1	1
44	SUPRENUM and GENESIS. Parallel Computing, 1994, 20, 1387-1388.	2.1	2
45	Simulation and Modelling Applications on MPP Systems. , 1994, , 15-21.		1
46	The Genesis distributed-memory benchmarks. Part 1: Methodology and general relativity benchmark with results for the SUPRENUM computer. Concurrency and Computation: Practice and Experience, 1993, 5, 1-22.	0.5	11
47	DISCOVER: A Computational Collaboratory for Interactive Grid Applications. , 0, , 729-746.		5
48	The Data Deluge: An e-Science Perspective. , 0, , 809-824.		273
49	The Open Grid Services Architecture, and Data Grids. , 0, , 385-407.		8
50	The Grid: A New Infrastructure for 21st Century Science. , 0, , 51-63.		23
51	Grid Resource Allocation and Control Using Computational Economies. , 0, , 747-771.		71
52	The Physiology of the Grid. , 0, , 217-249.		205
53	The Grid: Past, Present, Future. , 0, , 9-50.		40
54	The Semantic Grid: A Future e-Science Infrastructure. , 0, , 437-470.		126

#	Article	IF	Citations
55	Overview of the Book: Grid Computing â€“ Making the Global Infrastructure a Reality. , 0, , 1-8.		6
56	NetSolve: Past, Present, and Future â€“ A Look at a Grid Enabled Server. , 0, , 615-624.		31
57	Parameter Sweeps on the Grid with APST. , 0, , 773-787.		28
58	Grids and the Virtual Observatory. , 0, , 837-858.		4
59	The Anatomy of the Grid. , 0, , 169-197.		179
60	eDiamond: A Grid-Enabled Federated Database of Annotated Mammograms. , 0, , 923-943.		48
61	Combinatorial Chemistry and the Grid. , 0, , 945-962.		10
62	Application Overview for the Book: Grid Computing â€“ Making the Global Infrastructure a Reality. , 0, , 803-808.		0
63	Storage Manager and File Transfer Web Services. , 0, , 789-801.		2
64	The New Biology and the Grid. , 0, , 907-922.		3
65	Data-Intensive Grids for High-Energy Physics. , 0, , 859-905.		28
66	Distributed Object-Based Grid Computing Environments. , 0, , 713-728.		3
67	Education and the Enterprise with the Grid. , 0, , 963-976.		12
68	Commodity Grid Kits â€“ Middleware for Building Grid Computing Environments. , 0, , 639-656.		11
69	From Legion to Avaki: The Persistence of Vision. , 0, , 265-298.		13
70	Condor and the Grid. , 0, , 299-335.		221
71	Architecture of a Commercial Enterprise Desktop Grid: The Entropia System. , 0, , 337-350.		8
72	Autonomic Computing and Grid. , 0, , 351-361.		7

#	Article	IF	Citations
73	Databases and the Grid. , 0, , 363-384.		29
74	Virtualization Services for Data Grids. , 0, , 409-435.		16
75	Peer-To-Peer Grids. , 0, , 471-490.		24
76	Peer-To-Peer Grid Databases for Web Service Discovery. , 0, , 491-539.		15
77	Overview of Grid Computing Environments. , 0, , 541-553.		14
78	Grid Programming Models: Current Tools, Issues and Directions. , 0, , 555-578.		37
79	NaradaBrokering: An Event-Based Infrastructure for Building Scalable Durable Peer-To-Peer Grids. , 0, , 579-600.		11
80	Classifying and Enabling Grid Applications. , 0, , 601-614.		13
81	Ninf-G: A GridRPC System on the Globus Toolkit. , 0, , 625-637.		6
82	The Grid Portal Development Kit. , 0, , 657-673.		5
83	Building Grid Computing Portals: The NPACI Grid Portal Toolkit. , 0, , 675-700.		12
84	The Evolution of the Grid. , 0, , 65-100.		90
85	Software Infrastructure for the I-WAY High-Performance Distributed Computing Experiment. , 0, , 101-115.		1
86	Implementing Production Grids. , 0, , 117-167.		1
87	Rationale for Choosing the Open Grid Services Architecture. , 0, , 199-215.		3
88	Grid Web Services and Application Factories. , 0, , 251-264.		33
89	Metacomputing. , 0, , 825-835.		1
90	Unicore and the Open Grid Services Architecture. , 0, , 701-712.		6