

Larry Smarr

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

3,963
citations

186265
28
h-index

276875
41
g-index

45
all docs

45
docs citations

45
times ranked

4687
citing authors

#	ARTICLE	IF	CITATIONS
1	American Gut: an Open Platform for Citizen Science Microbiome Research. <i>MSystems</i> , 2018, 3, .	3.8	604
2	Time functions in numerical relativity: Marginally bound dust collapse. <i>Physical Review D</i> , 1979, 19, 2239-2259.	4.7	410
3	CAMERA: A Community Resource for Metagenomics. <i>PLoS Biology</i> , 2007, 5, e75.	5.6	344
4	Kinematical conditions in the construction of spacetime. <i>Physical Review D</i> , 1978, 17, 2529-2551.	4.7	281
5	Phylogenomics of 10,575 genomes reveals evolutionary proximity between domains Bacteria and Archaea. <i>Nature Communications</i> , 2019, 10, 5477.	12.8	197
6	Microbiome 101: Studying, Analyzing, and Interpreting Gut Microbiome Data for Clinicians. <i>Clinical Gastroenterology and Hepatology</i> , 2019, 17, 218-230.	4.4	187
7	Collision of two black holes. <i>Physical Review Letters</i> , 1993, 71, 2851-2854.	7.8	183
8	The StarCAVE, a third-generation CAVE and virtual reality OptIPortal. <i>Future Generation Computer Systems</i> , 2009, 25, 169-178.	7.5	148
9	Surface Geometry of Charged Rotating Black Holes. <i>Physical Review D</i> , 1973, 7, 289-295.	4.7	123
10	Maximally Slicing a Black Hole. <i>Physical Review D</i> , 1973, 7, 2814-2817.	4.7	114
11	Bringing the Dynamic Microbiome to Life with Animations. <i>Cell Host and Microbe</i> , 2017, 21, 7-10.	11.0	95
12	Collision of two black holes: Theoretical framework. <i>Physical Review D</i> , 1976, 14, 2443-2452.	4.7	94
13	Radiation gauge in general relativity. <i>Physical Review D</i> , 1978, 17, 1945-1956.	4.7	86
14	Gravitational radiation from distant encounters and from head-on collisions of black holes: The zero-frequency limit. <i>Physical Review D</i> , 1977, 15, 2069-2077.	4.7	76
15	SPACE-TIMES GENERATED BY COMPUTERS: BLACK HOLES WITH GRAVITATIONAL RADIATION. <i>Annals of the New York Academy of Sciences</i> , 1977, 302, 569-604.	3.8	74
16	Head-on collision of two equal mass black holes. <i>Physical Review D</i> , 1995, 52, 2044-2058.	4.7	74
17	Quantifying your body: A how-to guide from a systems biology perspective. <i>Biotechnology Journal</i> , 2012, 7, 980-991.	3.5	69
18	The future of the CAVE. <i>Open Engineering</i> , 2011, 1, .	1.6	62

#	ARTICLE	IF	CITATIONS
19	Numerically generated black-hole spacetimes: Interaction with gravitational waves. <i>Physical Review D</i> , 1992, 45, 3544-3558.	4.7	61
20	The OptiPortal, a scalable visualization, storage, and computing interface device for the OptiPuter. <i>Future Generation Computer Systems</i> , 2009, 25, 114-123.	7.5	60
21	Dynamics of Apparent and Event Horizons. <i>Physical Review Letters</i> , 1995, 74, 630-633.	7.8	57
22	Toward More Transparent and Reproducible Omics Studies Through a Common Metadata Checklist and Data Publications. <i>OMICS A Journal of Integrative Biology</i> , 2014, 18, 10-14.	2.0	54
23	Optimizing sequencing protocols for leaderboard metagenomics by combining long and short reads. <i>Genome Biology</i> , 2019, 20, 226.	8.8	47
24	Dynamics of black hole apparent horizons. <i>Physical Review D</i> , 1994, 50, 3801-3815.	4.7	40
25	Evaluating Metagenomic Prediction of the Metaproteome in a 4.5-Year Study of a Patient with Crohn's Disease. <i>MSystems</i> , 2019, 4, .	3.8	40
26	Escherichia coli B2 strains prevalent in inflammatory bowel disease patients have distinct metabolic capabilities that enable colonization of intestinal mucosa. <i>BMC Systems Biology</i> , 2018, 12, 66.	3.0	39
27	Metagenomics-Based, Strain-Level Analysis of Escherichia coli From a Time-Series of Microbiome Samples From a Crohn's Disease Patient. <i>Frontiers in Microbiology</i> , 2018, 9, 2559.	3.5	37
28	Creating a 3D microbial and chemical snapshot of a human habitat. <i>Scientific Reports</i> , 2018, 8, 3669.	3.3	34
29	De Novo Peptide Sequencing Reveals Many Cyclopeptides in the Human Gut and Other Environments. <i>Cell Systems</i> , 2020, 10, 99-108.e5.	6.2	28
30	Initial data for the black hole plus Brill wave spacetime. <i>Physical Review D</i> , 1994, 50, 3760-3782.	4.7	27
31	Are microbiome studies ready for hypothesis-driven research?. <i>Current Opinion in Microbiology</i> , 2018, 44, 61-69.	5.1	27
32	Special section: OptiPlanet â€” The OptiPuter global collaboratory. <i>Future Generation Computer Systems</i> , 2009, 25, 109-113.	7.5	26
33	Numerically generated axisymmetric black hole spacetimes: Numerical methods and code tests. <i>Physical Review D</i> , 1994, 50, 5000-5024.	4.7	25
34	Gastrointestinal Surgery for Inflammatory Bowel Disease Persistently Lowers Microbiome and Metabolome Diversity. <i>Inflammatory Bowel Diseases</i> , 2021, 27, 603-616.	1.9	25
35	Using machine learning to identify major shifts in human gut microbiome protein family abundance in disease. , 2016, , .		21
36	Can the twin-exhaust model explain radio jets?. <i>Nature</i> , 1981, 293, 277-279.	27.8	15

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37	Large memory high performance computing enables comparison across human gut microbiome of patients with autoimmune diseases and healthy subjects. , 2013, , .		15
38	Special section: iGrid 2005: The Global Lambda Integrated Facility. Future Generation Computer Systems, 2006, 22, 849-851.	7.5	13
39	Riding the light towards new science. Nature Photonics, 2007, 1, 133-135.	31.4	9
40	General Relativistic Hydrodynamics: The Comoving, Eulerian, and Velocity Potential Formalisms. , 1980, , 157-183.		6
41	Tracking Human Gut Microbiome Changes Resulting from a Colonoscopy. Methods of Information in Medicine, 2017, 56, 442-447.	1.2	6
42	Building an OptiPlanet collaboratory to support microbial metagenomics. Future Generation Computer Systems, 2009, 25, 124-131.	7.5	5
43	Toward More Transparent and Reproducible Omics Studies Through a Common Metadata Checklist and Data Publications. Big Data, 2013, 1, 196-201.	3.4	5
44	Shedding light on black holes. Future Generation Computer Systems, 1989, 5, 225-242.	7.5	1