

Christopher J Fluke

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

2,590
citations

279798

23
h-index

189892

50
g-index

60
all docs

60
docs citations

60
times ranked

4177
citing authors

#	ARTICLE	IF	CITATIONS
1	Shape noise and dispersion in precision weak lensing. Monthly Notices of the Royal Astronomical Society, 2021, 502, 5612-5621.	4.4	2
2	Surveying the reach and maturity of machine learning and artificial intelligence in astronomy. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2020, 10, e1349.	6.8	68
3	The influence of angular momentum and environment on the H ₂ gas of late-type galaxies. Monthly Notices of the Royal Astronomical Society, 2020, 496, 2516-2529.	4.4	14
4	The first shear measurements from precision weak lensing. Monthly Notices of the Royal Astronomical Society, 2020, 499, 4591-4604.	4.4	6
5	Understanding the human in the design of cyber-human discovery systems for data-driven astronomy. Astronomy and Computing, 2020, 33, 100423.	1.7	4
6	Non-invasive in vivo hyperspectral imaging of the retina for potential biomarker use in Alzheimer's disease. Nature Communications, 2019, 10, 4227.	12.8	157
7	Evaluating virtual hosted desktops for graphics-intensive astronomy. Astronomy and Computing, 2018, 23, 124-140.	1.7	2
8	Sports Stars: Analyzing the Performance of Astronomers at Visualization-based Discovery. Publications of the Astronomical Society of the Pacific, 2017, 129, 058009.	3.1	2
9	Collaborative Workspaces to Accelerate Discovery. Publications of the Astronomical Society of Australia, 2017, 34, .	3.4	5
10	Collaborative visual analytics of radio surveys in the Big Data era. Proceedings of the International Astronomical Union, 2016, 12, 311-315.	0.0	3
11	Kinematic modelling of disc galaxies using graphics processing units. Monthly Notices of the Royal Astronomical Society, 2016, 455, 754-784.	4.4	26
12	Three-dimensional visualization of nanostructured surfaces and bacterial attachment using Autodesk® Maya®. Scientific Reports, 2015, 4, 4228.	3.3	6
13	Data compression in the petascale astronomy era: A GERLUMPH case study. Astronomy and Computing, 2015, 12, 200-211.	1.7	7
14	Self-organised nanoarchitecture of titanium surfaces influences the attachment of Staphylococcus aureus and Pseudomonas aeruginosa bacteria. Applied Microbiology and Biotechnology, 2015, 99, 6831-6840.	3.6	22
15	GERLUMPH DATA RELEASE 2: 2.5 BILLION SIMULATED MICROLENSING LIGHT CURVES. Astrophysical Journal, Supplement Series, 2015, 217, 23.	7.7	16
16	The effect of macromodel uncertainties on microlensing modelling of lensed quasars. Monthly Notices of the Royal Astronomical Society, 2014, 445, 1223-1234.	4.4	11
17	The 6dF Galaxy Survey: peculiar velocity field and cosmography. Monthly Notices of the Royal Astronomical Society, 2014, 445, 2677-2697.	4.4	127
18	GERLUMPH DATA RELEASE 1: HIGH-RESOLUTION COSMOLOGICAL MICROLENSING MAGNIFICATION MAPS AND eResearch TOOLS. Astrophysical Journal, Supplement Series, 2014, 211, 16.	7.7	33

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19	Three-dimensional reconstruction of surface nanoarchitecture from two-dimensional datasets. <i>AMB Express</i> , 2014, 4, 3.	3.0	3
20	Are Tiled Display Walls Needed for Astronomy?. <i>Publications of the Astronomical Society of Australia</i> , 2014, 31, .	3.4	6
21	Adventures in the microlensing cloud: Large datasets, eResearch tools, and GPUs. <i>Astronomy and Computing</i> , 2014, 6, 1-18.	1.7	18
22	Bacterial attachment on sub-nanometrically smooth titanium substrata. <i>Biofouling</i> , 2013, 29, 163-170.	2.2	31
23	Biophysical Model of Bacterial Cell Interactions with Nanopatterned Cicada Wing Surfaces. <i>Biophysical Journal</i> , 2013, 104, 835-840.	0.5	496
24	Astronomy and Computing: A new journal for the astronomical computing community. <i>Astronomy and Computing</i> , 2013, 1, 1-4.	1.7	3
25	Tera-scale astronomical data analysis and visualization. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 429, 2442-2455.	4.4	18
26	A new parameter space study of cosmological microlensing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 434, 832-847.	4.4	19
27	Embedding and Publishing Interactive, 3-Dimensional, Scientific Figures in Portable Document Format (PDF) Files. <i>PLoS ONE</i> , 2013, 8, e69446.	2.5	72
28	Real-time Visualisation and Analysis of Tera-scale Datasets. <i>Proceedings of the International Astronomical Union</i> , 2012, 10, 679-680.	0.0	0
29	A Distributed GPU-Based Framework for Real-Time 3D Volume Rendering of Large Astronomical Data Cubes. <i>Publications of the Astronomical Society of Australia</i> , 2012, 29, 340-351.	3.4	11
30	Roughness Parameters for Standard Description of Surface Nanoarchitecture. <i>Scanning</i> , 2012, 34, 257-263.	1.5	65
31	Gravitational lensing with three-dimensional ray tracing... <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 420, 155-169.	4.4	21
32	Three-dimensional shapelets and an automated classification scheme for dark matter haloes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 421, 1499-1516.	4.4	2
33	Accelerating incoherent dedispersion. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 422, 379-392.	4.4	90
34	Astrophysical Supercomputing with GPUs: Critical Decisions for Early Adopters. <i>Publications of the Astronomical Society of Australia</i> , 2011, 28, 15-27.	3.4	25
35	Scientific Visualization in Astronomy: Towards the Petascale Astronomy Era. <i>Publications of the Astronomical Society of Australia</i> , 2011, 28, 150-170.	3.4	51
36	Shape, shear and flexion - II. Quantifying the flexion formalism for extended sources with the ray-bundle method... <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 416, 1616-1628.	4.4	13

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37	The influence of nanoscopically thin silver films on bacterial viability and attachment. Applied Microbiology and Biotechnology, 2011, 91, 1149-1157.	3.6	40
38	Interactive visualization of the largest radioastronomy cubes. New Astronomy, 2011, 16, 100-109.	1.8	14
39	Differential attraction and repulsion of Staphylococcus aureus and Pseudomonas aeruginosa on molecularly smooth titanium films. Scientific Reports, 2011, 1, 165.	3.3	76
40	Teraflop per second gravitational lensing ray-shooting using graphics processing units. New Astronomy, 2010, 15, 16-23.	1.8	42
41	Computational advances in gravitational microlensing: A comparison of CPU, GPU, and parallel, large data codes. New Astronomy, 2010, 15, 726-734.	1.8	42
42	The influence of nano-scale surface roughness on bacterial adhesion to ultrafine-grained titanium. Biomaterials, 2010, 31, 3674-3683.	11.4	379
43	Analysing astronomy algorithms for graphics processing units and beyond. Monthly Notices of the Royal Astronomical Society, 2010, 408, 1936-1944.	4.4	30
44	Visualisation and Analysis Challenges for WALLABY. , 2010, , .		4
45	Impact of Nanoscale Roughness of Titanium Thin Film Surfaces on Bacterial Retention. Langmuir, 2010, 26, 1973-1982.	3.5	177
46	Effect of ultrafine-grained titanium surfaces on adhesion of bacteria. Applied Microbiology and Biotechnology, 2009, 83, 925-937.	3.6	100
47	Shape, shear and flexion: an analytic flexion formalism for realistic mass profiles. Monthly Notices of the Royal Astronomical Society, 2009, 396, 2257-2268.	4.4	17
48	Interchanging Interactive 3D Graphics for Astronomy. Publications of the Astronomical Society of Australia, 2009, 26, 64-74.	3.4	5
49	Incorporating interactive three-dimensional graphics in astronomy research papers. New Astronomy, 2008, 13, 599-605.	1.8	65
50	Future Directions in Astronomy Visualization. Publications of the Astronomical Society of Australia, 2006, 23, 12-24.	3.4	9
51	An Advanced, Three-Dimensional Plotting Library for Astronomy. Publications of the Astronomical Society of Australia, 2006, 23, 82-93.	3.4	48
52	Investigating cosmological weak lensing with the ray-bundle method. Monthly Notices of the Royal Astronomical Society, 2002, 331, 180-196.	4.4	7
53	The size of the mid-IR emission region of a quasar inferred from microlensed images of Q2237+0305. Monthly Notices of the Royal Astronomical Society, 2002, 331, 1041-1052.	4.4	28
54	Mid-Infrared Imaging of the Einstein Cross QSO. Publications of the Astronomical Society of Australia, 2001, 18, 166-168.	3.4	5

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55	Investigating the geometry of quasars with microlensing. Monthly Notices of the Royal Astronomical Society, 1999, 302, 68-74.	4.4	32
56	Abstract of: Galileo's Heritage: Astronomers, Artists and <i>Deeper Darker Brighter</i> . Leonardo, 0, , 566-566.	0.3	0
57	The Interactive Astronomy Textbook. Astronomy Education Review, 0, 7, 113-125.	0.0	5
58	Large-scale comparative visualisation of sets of multidimensional data. PeerJ Computer Science, 0, 2, e88.	4.5	10