

Thomas MÃ¼ller

List of Publications by Year in descending order

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51
papers

565
citations

687363

13
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677142

22
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55
all docs

55
docs citations

55
times ranked

582
citing authors

#	ARTICLE	IF	CITATIONS
1	Predicted future fate of COSMOS galaxy protoclusters over 11 Gyr with constrained simulations. Nature Astronomy, 2022, 6, 857-865.	10.1	8
2	2019 IEEE Scientific Visualization Contest Winner: Visual Analysis of Structure Formation in Cosmic Evolution. IEEE Computer Graphics and Applications, 2020, 41, 1-1.	1.2	0
3	Visual Analysis of Structure Formation in Cosmic Evolution. , 2019, , .		3
4	Gaia Sky: Navigating the Gaia Catalog. IEEE Transactions on Visualization and Computer Graphics, 2019, 25, 1070-1079.	4.4	10
5	First Data Release of the COSMOS Ly α Mapping and Tomography Observations: 3D Ly α Forest Tomography at 2.05 z. Astrophysical Journal, Supplement Series, 2018, 237, 31.	7.7	80
6	Empirical exploration of timelike geodesics around a rotating wormhole. American Journal of Physics, 2016, 84, 375-383.	0.7	0
7	Spezielle und allgemeine Relativitätstheorie. , 2016, , .		1
8	Visualisierung in der ART. , 2016, , 277-298.		0
9	Visualisierung in der SRT. , 2016, , 153-167.		0
10	Image-based general-relativistic visualization. European Journal of Physics, 2015, 36, 065019.	0.6	4
11	Visual exploration of 2D autonomous dynamical systems. European Journal of Physics, 2015, 36, 035007.	0.6	0
12	MPPHys – A many-particle simulation package for computational physics education. Computer Physics Communications, 2014, 185, 1100-1108.	7.5	1
13	GeoVis – Relativistic ray tracing in four-dimensional spacetimes. Computer Physics Communications, 2014, 185, 2301-2308.	7.5	17
14	Incorporating Modern OpenGL into Computer Graphics Education. IEEE Computer Graphics and Applications, 2014, 34, 16-21.	1.2	7
15	Visual appearance of wireframe objects in special relativity. European Journal of Physics, 2014, 35, 065025.	0.6	4
16	Motion4D-library extended. Computer Physics Communications, 2014, 185, 2798-2799.	7.5	2
17	The Miocene Randeck Maar (SW Germany): Geological compilation and census of scientific excavations. Neues Jahrbuch Fur Geologie Und Palaontologie - Abhandlungen, 2014, 274, 209-218.	0.4	1
18	Escape Maps. IEEE Transactions on Visualization and Computer Graphics, 2014, 20, 2604-2613.	4.4	1

#	ARTICLE	IF	CITATIONS
19	Potential of a high-resolution DTM with large spatial coverage for visualization, identification and interpretation of young (Würmian) glacial geomorphology: a case study from Oberschwaben (southern Germany). <i>E&G Quaternary Science Journal</i> , 2014, 63, 107-129.	0.7	13
20	Numerical Chladni figures. <i>European Journal of Physics</i> , 2013, 34, 1067-1074.	0.6	7
21	Charged particles constrained to a curved surface. <i>European Journal of Physics</i> , 2013, 34, 147-160.	0.6	3
22	Circular orbits in the extreme Reissner-Nordström dihole metric. <i>Physical Review D</i> , 2013, 87, .	4.7	16
23	Interactive visualization of a thin disc around a Schwarzschild black hole. <i>European Journal of Physics</i> , 2012, 33, 955-963.	0.6	23
24	GPU-based four-dimensional general-relativistic ray tracing. <i>Computer Physics Communications</i> , 2012, 183, 2282-2290.	7.5	14
25	Detailed study of null and timelike geodesics in the Alcubierre warp spacetime. <i>General Relativity and Gravitation</i> , 2012, 44, 509-533.	2.0	5
26	Wavefronts and Light Cones for Kerr Spacetimes. <i>Journal of Modern Physics</i> , 2012, 03, 1882-1890.	0.6	2
27	Twin paradox in de Sitter spacetime. <i>European Journal of Physics</i> , 2011, 32, 1117-1142.	0.6	10
28	General-Relativistic Visualization. <i>Computing in Science and Engineering</i> , 2011, 13, 64-71.	1.2	4
29	Special-Relativistic Visualization. <i>Computing in Science and Engineering</i> , 2011, 13, 85-93.	1.2	4
30	Visualizing circular motion around a Schwarzschild black hole. <i>American Journal of Physics</i> , 2011, 79, 63-73.	0.7	12
31	Motion4D-library extended. <i>Computer Physics Communications</i> , 2011, 182, 1386-1388.	7.5	1
32	GeodesicViewer – A tool for exploring geodesics in the theory of relativity. <i>Computer Physics Communications</i> , 2011, 182, 1382-1383.	7.5	6
33	Studying null and time-like geodesics in the classroom. <i>European Journal of Physics</i> , 2011, 32, 747-759.	0.6	7
34	GeodesicViewer – A tool for exploring geodesics in the theory of relativity. <i>Computer Physics Communications</i> , 2010, 181, 413-419.	7.5	21
35	An updated version of the Motion4D-library. <i>Computer Physics Communications</i> , 2010, 181, 703.	7.5	0
36	Special Relativistic Visualization by Local Ray Tracing. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2010, 16, 1243-1250.	4.4	14

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37	Distortion of the stellar sky by a Schwarzschild black hole. American Journal of Physics, 2010, 78, 204-214.	0.7	16
38	The Gödel universe: Exact geometrical optics and analytical investigations on motion. Physical Review D, 2009, 80, .	4.7	13
39	Motion4D – A library for lightrays and timelike worldlines in the theory of relativity. Computer Physics Communications, 2009, 180, 2355-2360.	7.5	17
40	Analytic observation of a star orbiting a Schwarzschild black hole. General Relativity and Gravitation, 2009, 41, 541-558.	2.0	16
41	The Gödel Engine – An interactive approach to visualization in general relativity. Computer Graphics Forum, 2009, 28, 807-814.	3.0	7
42	Falling into a Schwarzschild black hole. General Relativity and Gravitation, 2008, 40, 2185-2199.	2.0	25
43	How computers can help us in creating an intuitive access to relativity. New Journal of Physics, 2008, 10, 125014.	2.9	11
44	A trip to the end of the universe and the twin –paradox–. American Journal of Physics, 2008, 76, 360-373.	0.7	13
45	Einstein rings as a tool for estimating distances and the mass of a Schwarzschild black hole. Physical Review D, 2008, 77, .	4.7	10
46	Exact geometric optics in a Morris-Thorne wormhole spacetime. Physical Review D, 2008, 77, .	4.7	55
47	VISUALIZATION OF RELATIVISTIC EFFECTS. , 2008, , .		0
48	WAVE FRONTS IN GENERAL RELATIVITY THEORY. , 2008, , .		2
49	Explanatory and illustrative visualization of special and general relativity. IEEE Transactions on Visualization and Computer Graphics, 2006, 12, 522-534.	4.4	39
50	Visual appearance of a Morris–Thorne-wormhole. American Journal of Physics, 2004, 72, 1045-1050.	0.7	40
51	Adaptive polygon rendering for interactive visualization in the Schwarzschild spacetime. European Journal of Physics, 0, , .	0.6	0