

Thomas MÃ¼ller

List of Publications by Year in descending order

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51
papers

565
citations

687363

13
h-index

677142

22
g-index

55
all docs

55
docs citations

55
times ranked

582
citing authors

#	ARTICLE	IF	CITATIONS
1	First Data Release of the COSMOS Ly α Mapping and Tomography Observations: 3D Ly α Forest Tomography at 2.05 $\leq z \leq 2.55$. <i>Astrophysical Journal, Supplement Series</i> , 2018, 237, 31.	7.7	80
2	Exact geometric optics in a Morris-Thorne wormhole spacetime. <i>Physical Review D</i> , 2008, 77, .	4.7	55
3	Visual appearance of a Morris-Thorne-wormhole. <i>American Journal of Physics</i> , 2004, 72, 1045-1050.	0.7	40
4	Explanatory and illustrative visualization of special and general relativity. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2006, 12, 522-534.	4.4	39
5	Falling into a Schwarzschild black hole. <i>General Relativity and Gravitation</i> , 2008, 40, 2185-2199.	2.0	25
6	Interactive visualization of a thin disc around a Schwarzschild black hole. <i>European Journal of Physics</i> , 2012, 33, 955-963.	0.6	23
7	GeodesicViewer – A tool for exploring geodesics in the theory of relativity. <i>Computer Physics Communications</i> , 2010, 181, 413-419.	7.5	21
8	Motion4D – A library for lightrays and timelike worldlines in the theory of relativity. <i>Computer Physics Communications</i> , 2009, 180, 2355-2360.	7.5	17
9	GeoVis – Relativistic ray tracing in four-dimensional spacetimes. <i>Computer Physics Communications</i> , 2014, 185, 2301-2308.	7.5	17
10	Analytic observation of a star orbiting a Schwarzschild black hole. <i>General Relativity and Gravitation</i> , 2009, 41, 541-558.	2.0	16
11	Distortion of the stellar sky by a Schwarzschild black hole. <i>American Journal of Physics</i> , 2010, 78, 204-214.	0.7	16
12	Circular orbits in the extreme Reissner-Nordström dihole metric. <i>Physical Review D</i> , 2013, 87, .	4.7	16
13	Special Relativistic Visualization by Local Ray Tracing. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2010, 16, 1243-1250.	4.4	14
14	GPU-based four-dimensional general-relativistic ray tracing. <i>Computer Physics Communications</i> , 2012, 183, 2282-2290.	7.5	14
15	A trip to the end of the universe and the twin –paradox. <i>American Journal of Physics</i> , 2008, 76, 360-373.	0.7	13
16	The Gödel universe: Exact geometrical optics and analytical investigations on motion. <i>Physical Review D</i> , 2009, 80, .	4.7	13
17	Potential of a high-resolution DTM with large spatial coverage for visualization, identification and interpretation of young (Weissian) glacial geomorphology: a case study from Oberschwaben (southern Germany). <i>E&G Quaternary Science Journal</i> , 2014, 63, 107-129.	0.7	13
18	Visualizing circular motion around a Schwarzschild black hole. <i>American Journal of Physics</i> , 2011, 79, 63-73.	0.7	12

#	ARTICLE	IF	CITATIONS
19	How computers can help us in creating an intuitive access to relativity. <i>New Journal of Physics</i> , 2008, 10, 125014.	2.9	11
20	Einstein rings as a tool for estimating distances and the mass of a Schwarzschild black hole. <i>Physical Review D</i> , 2008, 77, .	4.7	10
21	Twin paradox in de Sitter spacetime. <i>European Journal of Physics</i> , 2011, 32, 1117-1142.	0.6	10
22	Gaia Sky: Navigating the Gaia Catalog. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2019, 25, 1070-1079.	4.4	10
23	Predicted future fate of COSMOS galaxy protoclusters over 11 Gyr with constrained simulations. <i>Nature Astronomy</i> , 2022, 6, 857-865.	10.1	8
24	The GÃdel Engine – An interactive approach to visualization in general relativity. <i>Computer Graphics Forum</i> , 2009, 28, 807-814.	3.0	7
25	Studying null and time-like geodesics in the classroom. <i>European Journal of Physics</i> , 2011, 32, 747-759.	0.6	7
26	Numerical Chladni figures. <i>European Journal of Physics</i> , 2013, 34, 1067-1074.	0.6	7
27	Incorporating Modern OpenGL into Computer Graphics Education. <i>IEEE Computer Graphics and Applications</i> , 2014, 34, 16-21.	1.2	7
28	GeodesicViewer – A tool for exploring geodesics in the theory of relativity. <i>Computer Physics Communications</i> , 2011, 182, 1382-1383.	7.5	6
29	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
30	General-Relativistic Visualization. <i>Computing in Science and Engineering</i> , 2011, 13, 64-71.	1.2	4
31	Special-Relativistic Visualization. <i>Computing in Science and Engineering</i> , 2011, 13, 85-93.	1.2	4
32	Visual appearance of wireframe objects in special relativity. <i>European Journal of Physics</i> , 2014, 35, 065025.	0.6	4
33	Image-based general-relativistic visualization. <i>European Journal of Physics</i> , 2015, 36, 065019.	0.6	4
34	Charged particles constrained to a curved surface. <i>European Journal of Physics</i> , 2013, 34, 147-160.	0.6	3
35	Visual Analysis of Structure Formation in Cosmic Evolution. , 2019, , .		3
36	Motion4D-library extended. <i>Computer Physics Communications</i> , 2014, 185, 2798-2799.	7.5	2

#	ARTICLE	IF	CITATIONS
37	Wavefronts and Light Cones for Kerr Spacetimes. Journal of Modern Physics, 2012, 03, 1882-1890.	0.6	2
38	WAVE FRONTS IN GENERAL RELATIVITY THEORY. , 2008, , .		2
39	Motion4D-library extended. Computer Physics Communications, 2011, 182, 1386-1388.	7.5	1
40	MPPhys – A many-particle simulation package for computational physics education. Computer Physics Communications, 2014, 185, 1100-1108.	7.5	1
41	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
42	Escape Maps. IEEE Transactions on Visualization and Computer Graphics, 2014, 20, 2604-2613.	4.4	1
43	Spezielle und allgemeine Relativitätstheorie. , 2016, , .		1
44	An updated version of the Motion4D-library. Computer Physics Communications, 2010, 181, 703.	7.5	0
45	Visual exploration of 2D autonomous dynamical systems. European Journal of Physics, 2015, 36, 035007.	0.6	0
46	Empirical exploration of timelike geodesics around a rotating wormhole. American Journal of Physics, 2016, 84, 375-383.	0.7	0
47	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
48	Adaptive polygon rendering for interactive visualization in the Schwarzschild spacetime. European Journal of Physics, 0, , .	0.6	0
49	VISUALIZATION OF RELATIVISTIC EFFECTS. , 2008, , .		0
50	Visualisierung in der ART. , 2016, , 277-298.		0
51	Visualisierung in der SRT. , 2016, , 153-167.		0