

Alfonso GarcÃ-a-Parrado GÃ³mez-Lobo

List of Publications by Year in descending order

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29
papers

310
citations

1040056

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888059

17
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31
all docs

31
docs citations

31
times ranked

122
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamical laws of superenergy in general relativity. <i>Classical and Quantum Gravity</i> , 2008, 25, 015006.	4.0	78
2	Causal structures and causal boundaries. <i>Classical and Quantum Gravity</i> , 2005, 22, R1-R84.	4.0	55
3	Initial data sets for the Schwarzschild spacetime. <i>Physical Review D</i> , 2007, 75, .	4.7	20
4	Spinors: A Mathematica package for doing spinor calculus in General Relativity. <i>Computer Physics Communications</i> , 2012, 183, 2214-2225.	7.5	18
5	Further properties of causal relationship: causal structure stability, new criteria for isocausality and counterexamples. <i>Classical and Quantum Gravity</i> , 2005, 22, 4589-4619.	4.0	17
6	Killing spinor initial data sets. <i>Journal of Geometry and Physics</i> , 2008, 58, 1186-1202.	1.4	15
7	Bi-conformal vector fields and their applications. <i>Classical and Quantum Gravity</i> , 2004, 21, 2153-2177.	4.0	13
8	Petrov D vacuum spaces revisited: identities and invariant classification. <i>Classical and Quantum Gravity</i> , 2009, 26, 105022.	4.0	13
9	Local non-negative initial data scalar characterization of the Kerr solution. <i>Physical Review D</i> , 2015, 92, .	4.7	10
10	Kerr initial data. <i>Classical and Quantum Gravity</i> , 2008, 25, 205018.	4.0	9
11	A set of invariant quality factors measuring the deviation from the Kerr metric. <i>General Relativity and Gravitation</i> , 2013, 45, 1095-1127.	2.0	9
12	General study and basic properties of causal symmetries. <i>Classical and Quantum Gravity</i> , 2004, 21, 661-696.	4.0	8
13	Bi-conformal vector fields and the local geometric characterization of conformally separable pseudo-Riemannian manifolds I. <i>Journal of Geometry and Physics</i> , 2006, 56, 1069-1095.	1.4	8
14	Vacuum type D initial data. <i>Classical and Quantum Gravity</i> , 2016, 33, 175005.	4.0	7
15	Spinor calculus on five-dimensional spacetimes. <i>Journal of Mathematical Physics</i> , 2009, 50, 122504.	1.1	6
16	Conformal Killing initial data. <i>Journal of Mathematical Physics</i> , 2019, 60, .	1.1	6
17	Projective and amplified symmetries in metric-affine theories. <i>Classical and Quantum Gravity</i> , 2021, 38, 135001.	4.0	4
18	Conformal geodesics in spherically symmetric vacuum spacetimes with cosmological constant. <i>Classical and Quantum Gravity</i> , 2018, 35, 045002.	4.0	3

#	ARTICLE	IF	CITATIONS
19	Bi-conformal vector fields and the local geometric characterization of conformally separable pseudo-Riemannian manifolds II. <i>Journal of Geometry and Physics</i> , 2006, 56, 1600-1622.	1.4	2
20	A new special class of Petrov type D vacuum space-times in dimension five. <i>Journal of Physics: Conference Series</i> , 2011, 314, 012024.	0.4	2
21	Closed conformal Killing-Yano initial data. <i>Classical and Quantum Gravity</i> , 2022, 39, 105002.	4.0	2
22	On the characterization of non-degenerate foliations of pseudo-Riemannian manifolds with conformally flat leaves. <i>Journal of Mathematical Physics</i> , 2013, 54, 063503.	1.1	1
23	Gravitational radiation and the evolution of gravitational collapse in cylindrical symmetry. <i>Differential Geometry and Its Applications</i> , 2019, 64, 29-46.	0.5	1
24	Petrov D vacuum spaces revisited: Complete tables and invariant classification by GHP analysis. <i>Journal of Physics: Conference Series</i> , 2010, 229, 012035.	0.4	0
25	Spinor calculus on 5-dimensional spacetimes. <i>Journal of Physics: Conference Series</i> , 2010, 229, 012038.	0.4	0
26	A note on time-symmetric hypersurfaces in the Schwarzschild geometry. <i>Classical and Quantum Gravity</i> , 2010, 27, 217001.	4.0	0
27	Type D conformal initial data. <i>General Relativity and Gravitation</i> , 2020, 52, 1.	2.0	0
28	Causal Transformations. <i>Lecture Notes in Physics</i> , 2003, , 315-329.	0.7	0
29	pp-wave initial data. <i>General Relativity and Gravitation</i> , 2022, 54, .	2.0	0