

Ezra T Newman

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

3,607
citations

279798

23
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168389

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docs citations

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times ranked

1165
citing authors

#	ARTICLE	IF	CITATIONS
1	Geometry of flat-space null geodesic congruences. <i>General Relativity and Gravitation</i> , 2020, 52, 1.	2.0	0
2	A changed perspective concerning asymptotically flat Einstein/Einsteinâ€™s Maxwell spaceâ€™s times. <i>General Relativity and Gravitation</i> , 2019, 51, 1.	2.0	2
3	GR and classical mechanics: Magic?. <i>International Journal of Modern Physics D</i> , 2018, 27, 1846003.	2.1	0
4	Classical mechanics via general relativity and Maxwellâ€™s theory: a bit of magic. <i>General Relativity and Gravitation</i> , 2018, 50, 1.	2.0	1
5	Surprising structures hiding in Penroseâ€™s future null infinity. <i>Classical and Quantum Gravity</i> , 2017, 34, 135004.	4.0	1
6	Light-cones, almost light-cones and almost-complex light-cones. <i>General Relativity and Gravitation</i> , 2017, 49, 1.	2.0	3
7	Asymptotically flat spaceâ€™s times: an enigma. <i>Classical and Quantum Gravity</i> , 2016, 33, 145006.	4.0	5
8	On integrating the left-flat vacuum Einstein equations. <i>Classical and Quantum Gravity</i> , 2014, 31, 015013.	4.0	0
9	A fundamental solution to the CCC equations. <i>General Relativity and Gravitation</i> , 2014, 46, 1.	2.0	7
10	Null Geodesic Congruences, Asymptotically-Flat Spacetimes and Their Physical Interpretation. <i>Living Reviews in Relativity</i> , 2012, 15, 1.	26.7	49
11	Newtonâ€™s second law, radiation reaction and type II Einsteinâ€™s Maxwell fields. <i>Classical and Quantum Gravity</i> , 2011, 28, 245003.	4.0	2
12	Electrodynamic radiation reaction and general relativity. <i>General Relativity and Gravitation</i> , 2009, 41, 1139-1149.	2.0	1
13	Null Geodesic Congruences, Asymptotically-Flat Spacetimes and Their Physical Interpretation. <i>Living Reviews in Relativity</i> , 2009, 12, 6.	26.7	40
14	Spin-coefficient formalism. <i>Scholarpedia Journal</i> , 2009, 4, 7445.	0.3	31
15	On the physical interpretation of asymptotically flat gravitational fields. <i>General Relativity and Gravitation</i> , 2008, 40, 2043-2050.	2.0	2
16	ON THE PHYSICAL INTERPRETATION OF ASYMPTOTICALLY FLAT GRAVITATIONAL FIELDS. <i>International Journal of Modern Physics D</i> , 2008, 17, 2599-2606.	2.1	1
17	Null infinity, H-space and equations of motion. <i>General Relativity and Gravitation</i> , 2006, 38, 1559-1564.	2.0	0
18	CR structures and asymptotically flat spacetimes. <i>Classical and Quantum Gravity</i> , 2006, 23, 3123-3127.	4.0	9

#	ARTICLE	IF	CITATIONS
19	Twisting null geodesic congruences and the Einstein-Maxwell equations. <i>Classical and Quantum Gravity</i> , 2006, 23, 91-113.	4.0	22
20	Asymptotic twistor theory and the Kerr theorem. <i>Classical and Quantum Gravity</i> , 2006, 23, 3385-3392.	4.0	5
21	Tensorial spin-s harmonics. <i>Classical and Quantum Gravity</i> , 2006, 23, 497-509.	4.0	25
22	NULL INFINITY, H-SPACE AND EQUATIONS OF MOTION. <i>International Journal of Modern Physics D</i> , 2006, 15, 2317-2322.	2.1	0
23	DIFFERENTIAL EQUATIONS AND CARTAN CONNECTIONS. , 2006, , .		1
24	The large footprints of H-space on asymptotically flat spacetimes. <i>Classical and Quantum Gravity</i> , 2005, 22, 4659-4665.	4.0	24
25	Electromagnetic dipole radiation fields, shear-free congruences and complex centre of charge world lines. <i>Classical and Quantum Gravity</i> , 2005, 22, 4667-4678.	4.0	16
26	Maxwell fields and shear-free null geodesic congruences. <i>Classical and Quantum Gravity</i> , 2004, 21, 3197-3221.	4.0	27
27	Obituary to P. Bergmann. <i>General Relativity and Gravitation</i> , 2003, 35, 941-943.	2.0	1
28	Classical, geometric origin of magnetic moments, spin-angular momentum, and the Dirac gyromagnetic ratio. <i>Physical Review D</i> , 2002, 65, .	4.7	52
29	A spinor reformulation of the null surface treatment of GR. <i>Journal of Mathematical Physics</i> , 2000, 41, 6300-6317.	1.1	0
30	The theory of caustics and wave front singularities with physical applications. <i>Journal of Mathematical Physics</i> , 2000, 41, 3344-3378.	1.1	36
31	Characteristic surface data for the eikonal equation. <i>Journal of Mathematical Physics</i> , 1999, 40, 1093-1102.	1.1	2
32	Quantization of the null-surface formulation of general relativity. <i>Physical Review D</i> , 1997, 56, 889-907.	4.7	13
33	Pseudo-Minkowskian coordinates in asymptotically flat space-times. <i>Physical Review D</i> , 1997, 55, 1971-1976.	4.7	9
34	Lorentzian metrics from characteristic surfaces. <i>Journal of Mathematical Physics</i> , 1995, 36, 4975-4983.	1.1	36
35	Linearized Einstein theory via null surfaces. <i>Journal of Mathematical Physics</i> , 1995, 36, 5005-5022.	1.1	34
36	GR via characteristic surfaces. <i>Journal of Mathematical Physics</i> , 1995, 36, 4984-5004.	1.1	70

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37	Variations of the parallel propagator and holonomy operator and the Gauss law constraint. Journal of Mathematical Physics, 1993, 34, 4646-4654.	1.1	11
38	Diffeomorphism algebras and the Nahm and Ward equations. Journal of Mathematical Physics, 1992, 33, 382-387.	1.1	8
39	Canonical structures on anti-self-dual four-manifolds and the diffeomorphism group. Journal of Mathematical Physics, 1991, 32, 1458-1464.	1.1	29
40	On Hamiltonian systems with first-class constraints. Journal of Mathematical Physics, 1991, 32, 2739-2743.	1.1	25
41	On bi-Hamiltonian structures. Journal of Mathematical Physics, 1990, 31, 331-337.	1.1	1
42	Conformal Einstein spaces. General Relativity and Gravitation, 1985, 17, 343-352.	2.0	75
43	Maxwell's equations, linear gravity, and twistors. Foundations of Physics, 1984, 14, 1061-1081.	1.3	5
44	A note on asymptotically flat spaces. II. General Relativity and Gravitation, 1983, 15, 475-487.	2.0	5
45	Theory of light cone cuts of null infinity. Journal of Mathematical Physics, 1983, 24, 2481-2489.	1.1	46
46	Heaven and its properties. General Relativity and Gravitation, 1976, 7, 107-111.	2.0	113
47	Tensors, spinors, and functions on the unit sphere. General Relativity and Gravitation, 1976, 7, 687-693.	2.0	1
48	A complex minkowski space approach to twistors. General Relativity and Gravitation, 1975, 6, 361-385.	2.0	25
49	A curiosity concerning angular momentum. Journal of Mathematical Physics, 1974, 15, 1113-1115.	1.1	31
50	Complexification of the algebraically special gravitational fields. Journal of Mathematical Physics, 1974, 15, 1103-1112.	1.1	44
51	The Kerr congruence. Journal of Mathematical Physics, 1974, 15, 426-428.	1.1	14
52	Maxwell's equations and complex Minkowski space. Journal of Mathematical Physics, 1973, 14, 102-103.	1.1	69
53	Equations of motion for the sources of asymptotically flat spaces. Journal of Mathematical Physics, 1972, 13, 1884-1891.	1.1	39
54	Gravitational Radiation Reaction. Physical Review Letters, 1972, 28, 857-858.	7.8	4

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55	Applications of the intertwining operators for representations of the restricted Lorentz group. Journal of Mathematical Physics, 1972, 13, 1879-1883.	1.1	11
56	Motion and Structure of Singularities in General Relativity. II. Journal of Mathematical Physics, 1971, 12, 2319-2327.	1.1	10
57	Note on the Dynamics of Gravitational Sources. Journal of Mathematical Physics, 1965, 6, 1806-1811.	1.1	15
58	A Class of Null Flat-Space Coordinate Systems. Journal of Mathematical Physics, 1963, 4, 1467-1469.	1.1	56
59	Behavior of Asymptotically Flat Empty Spaces. Journal of Mathematical Physics, 1962, 3, 891-901.	1.1	333
60	An Approach to Gravitational Radiation by a Method of Spin Coefficients. Journal of Mathematical Physics, 1962, 3, 566-578.	1.1	2,110