Malcolm A H Maccallum

List of Publications by Year
in descending order

29 papers	3,907 citations	623734 14 h-index	610901 24 g-index
35 all docs	35 docs citations	35 times ranked	1635 citing authors

#	Article	IF	Citations
1	A class of homogeneous cosmological models. Communications in Mathematical Physics, 1969, 12, 108-141.	2.2	705
2	Nonadiabatic charged spherical gravitational collapse. Physical Review D, 2007, 76, .	4.7	166
3	Causality and the speed of sound. General Relativity and Gravitation, 2007, 39, 1651-1660.	2.0	82
4	A class of homogeneous cosmological models. Communications in Mathematical Physics, 1970, 19, 31-64.	2.2	66
5	Algebraically independent nth derivatives of the Riemannian curvature spinor in a general spacetime. Classical and Quantum Gravity, 1986, 3, 1133-1141.	4.0	45
6	On determining the isometry group of a riemannian space. General Relativity and Gravitation, 1982, 14, 673-682.	2.0	37
7	Stationary and static cylindrically symmetric Einstein spaces of the Lewis form. Classical and Quantum Gravity, 1998, 15, 1627-1636.	4.0	35
8	Hypersurface-Orthogonal Generators of an Orthogonally Transitive G2I, Topological Identifications, and Axially and Cylindrically Symmetric Spacetimes. General Relativity and Gravitation, 1998, 30, 131-150.	2.0	34
9	Computer-aided classification of the Ricci tensor in general relativity. Classical and Quantum Gravity, 1990, 7, 541-556.	4.0	33
10	Uniqueness of the Trautman-Bondi mass. Physical Review D, 1998, 58, .	4.7	27
11	Cartan invariants and event horizon detection. General Relativity and Gravitation, 2018, 50, 1.	2.0	25
12	An exterior for the GÃ¶del spacetime. Classical and Quantum Gravity, 1998, 15, 357-366.	4.0	22
13	Computer algebra in gravity research. Living Reviews in Relativity, 2018, 21, 6.	26.7	19
14	Mixmaster Universe Problem. Nature: Physical Science, 1971, 230, 112-113.	0.8	16
15	Quartic equations and classification of Riemann tensors in general relativity. General Relativity and Gravitation, 1991, 23, 1023-1055.	2.0	9
16	On singularities, horizons, invariants, and the results of Antoci, Liebscher and Mihich (Gen Relativ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.0	8
17	Local freedom in the gravitational field revisited. Classical and Quantum Gravity, 2006, 23, 5039-5048.	4.0	5
18	Properties of kinematic singularities. Classical and Quantum Gravity, 2009, 26, 215008.	4.0	5

#	Article	IF	Citations
19	Editorial note to: T. Levi-Civita, The physical reality of some normal spaces of Bianchi and to: Einsteinian ds 2 in Newtonian fields. IX: The analog of the logarithmic potential. General Relativity and Gravitation, 2011, 43, 2297-2306.	2.0	5
20	Totally symmetrized spinors and null rotation invariance. Classical and Quantum Gravity, 2020, 37, 195011.	4.0	4
21	Spacetimes with continuous linear isotropies I: spatial rotations. General Relativity and Gravitation, 2021, 53, 1.	2.0	3
22	Spacetimes with continuous linear isotropies II: boosts. General Relativity and Gravitation, 2021, 53, 1.	2.0	2
23	Invariants, singularities and horizons. International Journal of Modern Physics D, 2019, 28, 2040002.	2.1	1
24	Spacetimes with continuous linear isotropies III: null rotations. General Relativity and Gravitation, 2021, 53, 1.	2.0	1
25	Editorial note to: Pascual Jordan, JÃ¼rgen Ehlers and Rainer K. Sachs, Contributions to the theory of pure gravitational radiation. Exact solutions of the field equations of the general theory of relativity II. General Relativity and Gravitation, 2013, 45, 2683-2689.	2.0	0
26	Editorial note to: Wolfgang Kundt and Manfred TrÃ¼mper, Contributions to the theory of gravitational radiation fields. Exact solutions of the field equations of the general theory of relativity V. General Relativity and Gravitation, 2016, 48, 1.	2.0	0
27	Editorial: Golden Oldies criteria and procedures. General Relativity and Gravitation, 2017, 49, 1.	2.0	0
28	Spacetimes with continuous local isotropies. International Journal of Modern Physics D, 0, , .	2.1	0
29	Editorial note to: Manfred TrÃ¼mper, A threedimensional formulation of the Bianchi identities for vacuum gravitational fields. General Relativity and Gravitation, 2021, 53, 1.	2.0	0