Alan Coley

List of Publications by Year in descending order

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ALAN COLEV

#	Article	IF	CITATIONS
1	Dynamical Systems and Cosmology. Astrophysics and Space Science Library, 2003, , .	2.7	229
2	Teleparallel theories of gravity: illuminating a fully invariant approach. Classical and Quantum Gravity, 2019, 36, 183001.	4.0	217
3	Self-similarity in general relativity. Classical and Quantum Gravity, 1999, 16, R31-R71.	4.0	150
4	ls there proof that backreaction of inhomogeneities is irrelevant in cosmology?. Classical and Quantum Gravity, 2015, 32, 215021.	4.0	125
5	On spacetimes with constant scalar invariants. Classical and Quantum Gravity, 2006, 23, 3053-3074.	4.0	108
6	Cosmological Solutions in Macroscopic Gravity. Physical Review Letters, 2005, 95, 151102.	7.8	103
7	Special conformal Killing vector spaceâ€ŧimes and symmetry inheritance. Journal of Mathematical Physics, 1989, 30, 2616-2625.	1.1	76
8	Spacetimes characterized by their scalar curvature invariants. Classical and Quantum Gravity, 2009, 26, 025013.	4.0	71
9	Scaling solutions in Robertson-Walker spacetimes. Classical and Quantum Gravity, 1999, 16, 1843-1851.	4.0	70
10	Metrics with vanishing quantum corrections. Classical and Quantum Gravity, 2008, 25, 145017.	4.0	59
11	Conformal Killing vectors and FRW spacetimes. General Relativity and Gravitation, 1990, 22, 241-251.	2.0	54
12	The isotropic singularity in cosmology. Classical and Quantum Gravity, 1992, 9, 445-455.	4.0	54
13	Lorentzian spacetimes with constant curvature invariants in four dimensions. Classical and Quantum Gravity, 2009, 26, 125011.	4.0	52
14	No chaos in brane-world cosmology. Classical and Quantum Gravity, 2002, 19, L45-L56.	4.0	50
15	Twoâ€fluid cosmological models. Journal of Mathematical Physics, 1986, 27, 406-416.	1.1	49
16	A dynamical systems approach to the tilted Bianchi models of solvable type. Classical and Quantum Gravity, 2005, 22, 579-605.	4.0	48
17	Stability of cosmological scaling solutions. Physical Review D, 1998, 58, .	4.7	47
18	The state space and physical interpretation of self-similar spherically symmetric perfect-fluid models. Classical and Quantum Gravity, 2001, 18, 303-324.	4.0	47

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19	Qualitative analysis of two-fluid Bianchi cosmologies. Classical and Quantum Gravity, 1992, 9, 651-665.	4.0	45
20	Zero-curvature Friedmann-Robertson-Walker models as exact viscous magnetohydrodynamic cosmologies. Astrophysical Journal, 1983, 271, 1.	4.5	45
21	Dynamics of brane-world cosmological models. Physical Review D, 2002, 66, .	4.7	44
22	Kinematic self-similarity. Classical and Quantum Gravity, 1997, 14, 87-118.	4.0	40
23	A Class of Exact Classical Solutions to String Theory. Physical Review Letters, 2002, 89, 281601.	7.8	38
24	Future asymptotic behaviour of tilted Bianchi models of type IV and VII h. Classical and Quantum Gravity, 2005, 22, 607-633.	4.0	35
25	Complete classification of spherically symmetric self-similar perfect fluid solutions. Physical Review D, 2000, 62, .	4.7	34
26	Qualitative analysis of a class of Bianchi V imperfect fluid cosmologies. Journal of Mathematical Physics, 1992, 33, 1772-1779.	1.1	32
27	The similarity hypothesis in general relativity. General Relativity and Gravitation, 2005, 37, 2165-2188.	2.0	32
28	On the isotropy of the Universe: do Bianchi cosmologies isotropize?. Classical and Quantum Gravity, 1998, 15, 331-350.	4.0	30
29	Qualitative analysis of diagonal Bianchi type V imperfect fluid cosmological models. Journal of Mathematical Physics, 1994, 35, 4117-4144.	1.1	29
30	Bianchi type IX brane-world cosmologies. Physical Review D, 2003, 68, .	4.7	29
31	Affine conformal vectors in spaceâ€ŧime. Journal of Mathematical Physics, 1992, 33, 1754-1764.	1.1	28
32	Induced matter theory and embeddings in Riemann flat space–times. Journal of Mathematical Physics, 1996, 37, 361-373.	1.1	28
33	Scalar field cosmologies with barotropic matter: models of Bianchi class B. Classical and Quantum Gravity, 1999, 16, 4035-4056.	4.0	28
34	Static spherically symmetric Einstein-aether models I: perfect fluids with a linear equation of state and scalar fields with an exponential self-interacting potential. General Relativity and Gravitation, 2019, 51, 1.	2.0	27
35	Curvature operators and scalar curvature invariants. Classical and Quantum Gravity, 2010, 27, 095014.	4.0	26
36	Stability of Einstein-aether cosmological models. Physical Review D, 2013, 87, .	4.7	26

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37	Static spherically symmetric Einstein-æther models II: Integrability and the modified Tolman–Oppenheimer–Volkoff approach. Annals of Physics, 2020, 412, 168002.	2.8	26
38	Higher dimensional bivectors and classification of the Weyl operator. Classical and Quantum Gravity, 2010, 27, 015002.	4.0	25
39	Identification of black hole horizons using scalar curvature invariants. Classical and Quantum Gravity, 2018, 35, 025013.	4.0	25
40	Cartan invariants and event horizon detection. General Relativity and Gravitation, 2018, 50, 1.	2.0	25
41	Fluid observers and tilting cosmology. Classical and Quantum Gravity, 2006, 23, 3573-3591.	4.0	24
42	AVERAGING GEOMETRICAL OBJECTS ON A DIFFERENTIABLE MANIFOLD. International Journal of Modern Physics D, 2010, 19, 1915-1923.	2.1	24
43	Theoretical cosmology. Classical and Quantum Gravity, 2020, 37, 013001.	4.0	24
44	Self-similar spherically symmetric cosmological models with a perfect fluid and a scalar field. Classical and Quantum Gravity, 2000, 17, 2557-2588.	4.0	23
45	Persistent black holes in bouncing cosmologies. Classical and Quantum Gravity, 2017, 34, 135005.	4.0	23
46	Are braneworlds born isotropic?. Physical Review D, 2004, 69, .	4.7	21
47	Observational constraints on the averaged universe. Physical Review D, 2012, 85, .	4.7	21
48	Critical phenomena and a new class of self-similar spherically symmetric perfect-fluid solutions. Physical Review D, 2000, 61, .	4.7	20
49	PERSISTENCE OF BLACK HOLES THROUGH A COSMOLOGICAL BOUNCE. International Journal of Modern Physics D, 2011, 20, 2733-2738.	2.1	19
50	Lorentzian manifolds and scalar curvature invariants. Classical and Quantum Gravity, 2010, 27, 102001.	4.0	18
51	Inhomogeneous Cosmologies, the Copernican Principle and the Cosmic Microwave Background: More on the EGS Theorem. General Relativity and Gravitation, 2003, 35, 969-990.	2.0	17
52	Large-scale perturbations on the brane and the isotropy of the cosmological singularity. Physical Review D, 2004, 70, .	4.7	17
53	Averaging in cosmological models using scalars. Classical and Quantum Gravity, 2010, 27, 245017.	4.0	17
54	Symmetry and equivalence in teleparallel gravity. Journal of Mathematical Physics, 2020, 61, .	1.1	17

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55	Isotropic singularity in inhomogeneous brane cosmological models. Classical and Quantum Gravity, 2004, 21, 1311-1342.	4.0	16
56	Generating Matter Inhomogeneities in General Relativity. Physical Review Letters, 2012, 108, 191101.	7.8	15
57	A new look at FRW cosmologies. General Relativity and Gravitation, 1983, 15, 977-983.	2.0	14
58	Space-times admitting a three-dimensional conformal group. General Relativity and Gravitation, 1996, 28, 311-337.	2.0	14
59	Gravitational Entropy in Cosmological Models. International Journal of Theoretical Physics, 2006, 45, 1258-1266.	1.2	13
60	An invariant characterization of the quasi-spherical Szekeres dust models. General Relativity and Gravitation, 2019, 51, 1.	2.0	13
61	Spaceâ€ŧimes admitting special affine conformal vectors. Journal of Mathematical Physics, 1990, 31, 649-652.	1.1	12
62	Discriminating the Weyl type in higher dimensions using scalar curvature invariants. General Relativity and Gravitation, 2011, 43, 2199-2207.	2.0	12
63	Refinements of the Weyl tensor classification in five dimensions. Classical and Quantum Gravity, 2012, 29, 155016.	4.0	12
64	Algebraic classification of five-dimensional spacetimes using scalar invariants. Classical and Quantum Gravity, 2011, 28, 155016.	4.0	11
65	Geometric horizons in the Kastor-Traschen multi-black-hole solutions. Physical Review D, 2018, 98, .	4.7	11
66	Cosmic microwave background and scalar-tensor theories of gravity. Physical Review D, 2001, 64, .	4.7	10
67	Spikes and matter inhomogeneities in massless scalar field models. Classical and Quantum Gravity, 2016, 33, 015009.	4.0	10
68	The Cartan algorithm in five dimensions. Journal of Mathematical Physics, 2017, 58, 032502.	1.1	10
69	Asymptotic analysis of spatially inhomogeneous stiff and ultra-stiff cosmologies. Classical and Quantum Gravity, 2005, 22, 3073-3082.	4.0	9
70	Horizon detection and higher dimensional black rings. Classical and Quantum Gravity, 2017, 34, 035008.	4.0	9
71	Backreaction: Gauge and frame dependences. Physical Review D, 2013, 87, .	4.7	8
72	Magnetic fields and the cosmic microwave background. Classical and Quantum Gravity, 2001, 18, 1305-1310.	4.0	7

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73	Self-Similar Static Spherically Symmetric Scalar Field Models. General Relativity and Gravitation, 2003, 35, 707-749.	2.0	7
74	Self-similar spherically symmetric cosmological models with two scalar fields. Classical and Quantum Gravity, 2001, 18, 4213-4237.	4.0	6
75	General relativistic density perturbations. Classical and Quantum Gravity, 2014, 31, 015020.	4.0	6
76	Demonstration of the spike phenomenon using the LTB models. Classical and Quantum Gravity, 2014, 31, 115012.	4.0	6
77	Universality and Constant Scalar Curvature Invariants. ISRN Geometry, 2011, 2011, 1-9.	0.1	6
78	Qualitative properties of magnetic fields in scalar field cosmology. Physical Review D, 2001, 64, .	4.7	5
79	ON THE ALGEBRAIC CLASSIFICATION OF PSEUDO-RIEMANNIAN SPACES. International Journal of Geometric Methods in Modern Physics, 2011, 08, 1679-1685.	2.0	5
80	Stiff fluid spike solutions from Bianchi type V seed solutions. Classical and Quantum Gravity, 2017, 34, 235013.	4.0	5
81	Timelike self-similar spherically symmetric models with two scalar fields. Classical and Quantum Gravity, 2002, 19, 3901-3925.	4.0	4
82	Basis for scalar curvature invariants in three dimensions. Classical and Quantum Gravity, 2014, 31, 235010.	4.0	4
83	On the first G 1 stiff fluid spike solution in General Relativity. Classical and Quantum Gravity, 2016, 33, 215010.	4.0	4
84	Geometric horizons in binary black hole mergers. Classical and Quantum Gravity, 2021, 38, 17LT01.	4.0	3
85	The maximum dimension of the inheriting algebra in perfect fluid space–times. Journal of Mathematical Physics, 2002, 43, 5567-5577.	1.1	2
86	Letter: Mach's Principle and Superfluids in Cosmology. General Relativity and Gravitation, 2002, 34, 549-555.	2.0	2
87	On scalar curvature invariants in three dimensional spacetimes. General Relativity and Gravitation, 2016, 48, 1.	2.0	2
88	Higher-dimensional vacuum solutions of Einstein's field equations. International Journal of Theoretical Physics, 1995, 34, 293-299.	1.2	1
89	General Relativistic Tilt and Dark Energy. , 2008, , .		1
90	Teleparallel geometries not characterized by their scalar polynomial torsion invariants. Journal of Mathematical Physics, 2021, 62, 052501.	1.1	1

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91	Persistence in black hole lattice cosmological models. Classical and Quantum Gravity, 2020, 37, 245002.	4.0	1
92	Curvature invariants in a binary black hole merger. General Relativity and Gravitation, 2022, 54, .	2.0	1
93	FRW Models as Exact Viscous Magnetohydrodynamical Cosmologies. Annals of the New York Academy of Sciences, 1984, 422, 338-338.	3.8	0
94	Observations and FRW Models. Annals of the New York Academy of Sciences, 1986, 470, 369-369.	3.8	0
95	Analysis of Weyl-Affine Theories of Gravity in Terms of the Gravitational Frequency Shift Effect. Annals of the New York Academy of Sciences, 1986, 470, 370-370.	3.8	0
96	Primordial nucleosynthesis and ? B ?1 cosmologies with interacting radiation and matter. Astrophysics and Space Science, 1987, 138, 393-401.	1.4	0
97	ASSISTED INFLATION. International Journal of Modern Physics A, 2002, 17, 2755-2755.	1.5	0
98	BRANE-WORLD COSMOLOGY. International Journal of Modern Physics D, 2002, 11, 1609-1614.	2.1	0
99	Editorial introduction: Malcolm MacCallum at 60. General Relativity and Gravitation, 2006, 38, 997-1002.	2.0	0
100	SCALAR AVERAGING IN COSMOLOGY. International Journal of Modern Physics D, 2010, 19, 2361-2364.	2.1	0
101	Summary of the parallel session: mathematical cosmology. General Relativity and Gravitation, 2014, 46, 1.	2.0	0

102 EINSTEIN-AETHER COSMOLOGICAL MODELS., 2015, , .

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