Christian Boehmer

List of Publications by Year
in descending order

78 papers	5,824 citations	57758 44 h-index	71685 76 g-index
82 all docs	82 docs citations	82 times ranked	1822 citing authors

#	Article	IF	Citations
1	Extra force inf(R)modified theories of gravity. Physical Review D, 2007, 75, .	4.7	684
2	Can dark matter be a Bose–Einstein condensate?. Journal of Cosmology and Astroparticle Physics, 2007, 2007, 025-025.	5.4	346
3	Bounds on the basic physical parameters for anisotropic compact general relativistic objects. Classical and Quantum Gravity, 2006, 23, 6479-6491.	4.0	253
4	Dynamics of dark energy with a coupling to dark matter. Physical Review D, 2008, 78, .	4.7	249
5	Dynamical systems applied to cosmology: Dark energy and modified gravity. Physics Reports, 2018, 775-777, 1-122.	25.6	244
6	Modified teleparallel theories of gravity. Physical Review D, 2015, 92, .	4.7	232
7	Good and bad tetrads in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>f</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>T</mml:mi><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 492 Td (stretchy="false"	4.7	228
8	Teleparallel theories of gravity: illuminating a fully invariant approach. Classical and Quantum Gravity, 2019, 36, 183001.	4.0	217
9	Wormhole geometries in modified teleparallel gravity and the energy conditions. Physical Review D, 2012, 85, .	4.7	193
10	Dark matter as a geometric effect in f(R)f(R) gravity. Astroparticle Physics, 2008, 29, 386-392.	4.3	186
11	Loop quantum dynamics of the Schwarzschild interior. Physical Review D, 2007, 76, .	4.7	144
12	Minimum mass–radius ratio for charged gravitational objects. General Relativity and Gravitation, 2007, 39, 757-775.	2.0	129
13	CMB anisotropies and inflation from non-standard spinors. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 663, 168-171.	4.1	121
14	Stability of the Einstein static universe in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>f</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>R</mml:mi><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 212 Td (stretchy="false">)</mml:mo	4.7	118
15	Dark energy as a massive vector field. European Physical Journal C, 2007, 50, 423-429.	3.9	108
16	The generalized virial theorem in<i>f</i>(<i>R</i>) gravity. Journal of Cosmology and Astroparticle Physics, 2008, 2008, 024.	5.4	105
17	Stability of the Einstein static universe in modified Gauss-Bonnet gravity. Physical Review D, 2009, 79, .	4.7	96
18	Generalized hybrid metric-Palatini gravity. Physical Review D, 2013, 87, .	4.7	93

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19	New classes of modified teleparallel gravity models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 775, 37-43.	4.1	92
20	New horizons for fundamental physics with LISA. Living Reviews in Relativity, 2022, 25, .	26.7	82
21	Scales set by the cosmological constant. Classical and Quantum Gravity, 2006, 23, 485-496.	4.0	81
22	Jacobi stability analysis of dynamical systemsâ€"applications in gravitation and cosmology. Advances in Theoretical and Mathematical Physics, 2012, 16, 1145-1196.	0.6	78
23	The Einstein-Elko system â€" Can dark matter drive inflation?. Annalen Der Physik, 2007, 16, 325-341.	2.4	77
24	Eleven Spherically Symmetric Constant Density Solutions with Cosmological Constant. General Relativity and Gravitation, 2004, 36, 1039-1054.	2.0	70
25	Dark spinor models in gravitation and cosmology. Journal of High Energy Physics, 2010, 2010, 1.	4.7	70
26	Conformally symmetric traversable wormholes. Physical Review D, 2007, 76, .	4.7	68
27	Einstein static universes are unstable in generic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>f</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>R</mml:mi><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 412 Td (stretchy="false"	4.7	66
28	Dark spinor inflation: Theory primer and dynamics. Physical Review D, 2008, 77, .	4.7	63
29	The Einstein static universe with torsion and the sign problem of the cosmological constant. Classical and Quantum Gravity, 2004, 21, 1119-1124.	4.0	62
30	Physics of Dark Energy Particles. Foundations of Physics, 2008, 38, 216-227.	1.3	62
31	Modified teleparallel theories of gravity: Gaussâ€"Bonnet and trace extensions. European Physical Journal C, 2016, 76, 578.	3.9	61
32	Interacting quintessence from a variational approach. II. Derivative couplings. Physical Review D, 2015, 91, .	4.7	59
33	Einstein static universe in hybrid metric-Palatini gravity. Physical Review D, 2013, 88, .	4.7	58
34	Solar system tests of brane world models. Classical and Quantum Gravity, 2008, 25, 045015.	4.0	57
35	Quintessence with quadratic coupling to dark matter. Physical Review D, 2010, 81, .	4.7	56
36	Dark spinors with torsion in cosmology. Physical Review D, 2008, 78, .	4.7	55

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37	Stability of the Einstein static universe inÂIRÂmodifiedÂHoÅ™avaÂgravity. European Physical Journal C, 2010, 70, 1111-1118.	3.9	53
38	Interacting quintessence from a variational approach. I. Algebraic couplings. Physical Review D, 2015, 91, .	4.7	53
39	Wormhole geometries with conformal motions. Classical and Quantum Gravity, 2008, 25, 075016.	4.0	52
40	Does the cosmological constant imply the existence of a minimum mass?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 630, 73-77.	4.1	51
41	Dynamics of dark energy models and centre manifolds. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 714, 11-17.	4.1	47
42	Generalized Æ'(R,Î¦, X) Gravity and the Late-Time Cosmic Acceleration. Universe, 2015, 1, 186-198.	2.5	47
43	Galactic dark matter as a bulk effect on the brane. Classical and Quantum Gravity, 2007, 24, 3191-3209.	4.0	46
44	DARK ENERGY WITH DARK SPINORS. Modern Physics Letters A, 2010, 25, 101-110.	1.2	44
45	Nonlinear Stability Analysis of the Emdenâ€"Fowler Equation. Journal of Nonlinear Mathematical Physics, 2010, 17, 503.	1.3	41
46	On Einstein clusters as galactic dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2007, 379, 393-398.	4.4	37
47	Classical tests of general relativity in brane world models. Classical and Quantum Gravity, 2010, 27, 185013.	4.0	34
48	Dynamical instability of fluid spheres in the presence of a cosmological constant. Physical Review D, 2005, 71, .	4.7	32
49	Einstein static universe in scalar-fluid theories. Physical Review D, 2015, 92, .	4.7	30
50	Modified gravity: A unified approach. Physical Review D, 2021, 104, .	4.7	26
51	Stability of the Schwarzschild interior in loop quantum gravity. Physical Review D, 2008, 78, .	4.7	25
52	Bounds on M/R for charged objects with positive cosmological constant. Classical and Quantum Gravity, 2012, 29, 095012.	4.0	22
53	ON ASTROPHYSICAL BOUNDS OF THE COSMOLOGICAL CONSTANT. International Journal of Modern Physics D, 2005, 14, 1507-1525.	2.1	21
54	The regular black hole in four dimensional Bornâ€"Infeld gravity. Classical and Quantum Gravity, 2019, 36, 12LT01.	4.0	21

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55	Perfect fluid spheres with cosmological constant. Physical Review D, 2008, 77, .	4.7	20
56	Bounds on M / R for static objects with a positive cosmological constant. Classical and Quantum Gravity, 2009, 26, 195007.	4.0	19
57	A gauge-theoretical approach to elasticity with microrotations. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2012, 468, 1391-1407.	2.1	12
58	BTZ gems inside regular Born–Infeld black holes. Classical and Quantum Gravity, 2020, 37, 185002.	4.0	12
59	Soliton-like solutions based on geometrically nonlinear Cosserat micropolar elasticity. Wave Motion, 2016, 60, 158-165.	2.0	11
60	A NEW TWO-SPHERE SINGULARITY IN GENERAL RELATIVITY. International Journal of Modern Physics D, 2008, 17, 897-910.	2.1	10
61	A New Approach to Modifying Theories of Gravity. Foundations of Physics, 2013, 43, 1478-1488.	1.3	10
62	Soliton solutions in geometrically nonlinear Cosserat micropolar elasticity with large deformations. Wave Motion, 2019, 84, 110-124.	2.0	9
63	Helicity–from Clifford to graphene. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 205206.	2.1	8
64	Does space-time torsion determine the minimum mass of gravitating particles?. European Physical Journal C, 2018, 78, 253.	3.9	7
65	Compatibility conditions of continua using Riemann–Cartan geometry. Mathematics and Mechanics of Solids, 2021, 26, 513-529.	2.4	7
66	The spherically symmetric Standard Model with gravity. General Relativity and Gravitation, 2005, 37, 1435-1482.	2.0	6
67	From continuum mechanics to general relativity. International Journal of Modern Physics D, 2014, 23, 1442015.	2.1	6
68	On galaxy rotation curves from a continuum mechanics approach to modified gravity. International Journal of Modern Physics D, 2018, 27, 1850007.	2.1	6
69	Chirality in the plane. Journal of the Mechanics and Physics of Solids, 2020, 134, 103753.	4.8	6
70	Charged perfect fluids in the presence of a cosmological constant. General Relativity and Gravitation, 2011, 43, 3033-3046.	2.0	5
71	Generalized matter couplings in general relativity. Physical Review D, 2018, 98, .	4.7	5
72	THE EINSTEIN–YANG–MILLS EQUATIONS FROM BIANCHI IDENTITIES. Modern Physics Letters A, 2007, 22, 2727-2735.	1.2	4

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73	Freud's superpotential in general relativity and in Einstein-Cartan theory. Physical Review D, 2018, 97, .	4.7	4
74	Cosmological dynamical systems in modified gravity. European Physical Journal C, 2022, 82, .	3.9	4
75	Geometrically nonlinear Cosserat elasticity in the plane: applications to chirality. Journal of Mechanics of Materials and Structures, 2017, 12, 689-710.	0.6	3
76	$D = 11$ cosmologies with teleparallel structure. Physical Review D, 2019, 100, .	4.7	3
77	A NOTE ON TWO-DIMENSIONAL DILATON GRAVITY WITH NON-SMOOTH POTENTIALS. Modern Physics Letters A, 2005, 20, 1057-1064.	1.2	0
78	Slowly rotating perfect fluids with a cosmological constant. General Relativity and Gravitation, 2015, 47, 1.	2.0	0