Christian Boehmer

List of Publications by Year
in descending order

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78	5,824	57758	71685
papers	citations	44 h-index	76 g-index

82	82	82	1822
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cosmological dynamical systems in modified gravity. European Physical Journal C, 2022, 82, .	3.9	4
2	New horizons for fundamental physics with LISA. Living Reviews in Relativity, 2022, 25, .	26.7	82
3	Compatibility conditions of continua using Riemannâ€“Cartan geometry. Mathematics and Mechanics of Solids, 2021, 26, 513-529.	2.4	7
4	Modified gravity: A unified approach. Physical Review D, 2021, 104, .	4.7	26
5	Chirality in the plane. Journal of the Mechanics and Physics of Solids, 2020, 134, 103753.	4.8	6
6	BTZ gems inside regular Bornâ€“Infeld black holes. Classical and Quantum Gravity, 2020, 37, 185002.	4.0	12
7	The regular black hole in four dimensional Bornâ€“Infeld gravity. Classical and Quantum Gravity, 2019, 36, 12LT01.	4.0	21
8	Teleparallel theories of gravity: illuminating a fully invariant approach. Classical and Quantum Gravity, 2019, 36, 183001.	4.0	217
9	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>D</mml:mi><mml:mo>=</mml:mo><mml:mn>11</mml:mn></mml:math> cosmologies with teleparallel structure. Physical Review D, 2019, 100, .	4.7	3
10	Soliton solutions in geometrically nonlinear Cosserat micropolar elasticity with large deformations. Wave Motion, 2019, 84, 110-124.	2.0	9
11	Freudâ€™s superpotential in general relativity and in Einstein-Cartan theory. Physical Review D, 2018, 97, .	4.7	4
12	Does space-time torsion determine the minimum mass of gravitating particles?. European Physical Journal C, 2018, 78, 253.	3.9	7
13	On galaxy rotation curves from a continuum mechanics approach to modified gravity. International Journal of Modern Physics D, 2018, 27, 1850007.	2.1	6
14	Dynamical systems applied to cosmology: Dark energy and modified gravity. Physics Reports, 2018, 775-777, 1-122.	25.6	244
15	Generalized matter couplings in general relativity. Physical Review D, 2018, 98, .	4.7	5
16	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
17	Geometrically nonlinear Cosserat elasticity in the plane: applications to chirality. Journal of Mechanics of Materials and Structures, 2017, 12, 689-710.	0.6	3
18	Modified teleparallel theories of gravity: Gaussâ€“Bonnet and trace extensions. European Physical Journal C, 2016, 76, 578.	3.9	61

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19	Soliton-like solutions based on geometrically nonlinear Cosserat micropolar elasticity. Wave Motion, 2016, 60, 158-165.	2.0	11
20	Interacting quintessence from a variational approach. I. Algebraic couplings. Physical Review D, 2015, 91, .	4.7	53
21	Interacting quintessence from a variational approach. II. Derivative couplings. Physical Review D, 2015, 91, .	4.7	59
22	Modified teleparallel theories of gravity. Physical Review D, 2015, 92, .	4.7	232
23	Einstein static universe in scalar-fluid theories. Physical Review D, 2015, 92, .	4.7	30
24	Generalized Æ'(R,Î¦, X) Gravity and the Late-Time Cosmic Acceleration. Universe, 2015, 1, 186-198.	2.5	47
25	Slowly rotating perfect fluids with a cosmological constant. General Relativity and Gravitation, 2015, 47, 1.	2.0	0
26	From continuum mechanics to general relativity. International Journal of Modern Physics D, 2014, 23, 1442015.	2.1	6
27	Einstein static universe in hybrid metric-Palatini gravity. Physical Review D, 2013, 88, .	4.7	58
28	A New Approach to Modifying Theories of Gravity. Foundations of Physics, 2013, 43, 1478-1488.	1.3	10
29	Generalized hybrid metric-Palatini gravity. Physical Review D, 2013, 87, .	4.7	93
30	Bounds on M/R for charged objects with positive cosmological constant. Classical and Quantum Gravity, 2012, 29, 095012.	4.0	22
31	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 50 252 Td (stretchy="false")	4.7	228
32	Wormhole geometries in modified teleparallel gravity and the energy conditions. Physical Review D, 2012, 85, .	4.7	193
33	Helicityâ€"from Clifford to graphene. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 205206.	2.1	8
34	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
35	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
36	Jacobi stability analysis of dynamical systemsâ€"applications in gravitation and cosmology. Advances in Theoretical and Mathematical Physics, 2012, 16, 1145-1196.	0.6	78

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37	Charged perfect fluids in the presence of a cosmological constant. General Relativity and Gravitation, 2011, 43, 3033-3046.	2.0	5
38	Stability of the Einstein static universe inÂIRÂmodifiedÂHoÅ™avaÂgravity. European Physical Journal C, 2010, 70, 1111-1118.	3.9	53
39	Classical tests of general relativity in brane world models. Classical and Quantum Gravity, 2010, 27, 185013.	4.0	34
40	Dark spinor models in gravitation and cosmology. Journal of High Energy Physics, 2010, 2010, 1.	4.7	70
41	Quintessence with quadratic coupling to dark matter. Physical Review D, 2010, 81, .	4.7	56
42	DARK ENERGY WITH DARK SPINORS. Modern Physics Letters A, 2010, 25, 101-110.	1.2	44
43	Nonlinear Stability Analysis of the Emdenâ€“Fowler Equation. Journal of Nonlinear Mathematical Physics, 2010, 17, 503.	1.3	41
44	Bounds on M / R for static objects with a positive cosmological constant. Classical and Quantum Gravity, 2009, 26, 195007.	4.0	19
45	Stability of the Einstein static universe in modified Gauss-Bonnet gravity. Physical Review D, 2009, 79, .	4.7	96
46	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 ETQq0 0 0 rgBT /Overlock 10 Tf 50 372 Td (stretchy="false">)</mml:m	4.7	66
47	Dark matter as a geometric effect in f(R)f(R) gravity. Astroparticle Physics, 2008, 29, 386-392.	4.3	186
48	Physics of Dark Energy Particles. Foundations of Physics, 2008, 38, 216-227.	1.3	62
49	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
50	Solar system tests of brane world models. Classical and Quantum Gravity, 2008, 25, 045015.	4.0	57
51	Dark spinor inflation: Theory primer and dynamics. Physical Review D, 2008, 77, .	4.7	63
52	Dynamics of dark energy with a coupling to dark matter. Physical Review D, 2008, 78, .	4.7	249
53	The generalized virial theorem inf(R) gravity. Journal of Cosmology and Astroparticle Physics, 2008, 2008, 024.	5.4	105
54	Stability of the Schwarzschild interior in loop quantum gravity. Physical Review D, 2008, 78, .	4.7	25

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55	Dark spinors with torsion in cosmology. Physical Review D, 2008, 78, .	4.7	55
56	Perfect fluid spheres with cosmological constant. Physical Review D, 2008, 77, .	4.7	20
57	A NEW TWO-SPHERE SINGULARITY IN GENERAL RELATIVITY. International Journal of Modern Physics D, 2008, 17, 897-910.	2.1	10
58	Wormhole geometries with conformal motions. Classical and Quantum Gravity, 2008, 25, 075016.	4.0	52
59	Galactic dark matter as a bulk effect on the brane. Classical and Quantum Gravity, 2007, 24, 3191-3209.	4.0	46
60	THE EINSTEINâ€“YANGâ€“MILLS EQUATIONS FROM BIANCHI IDENTITIES. Modern Physics Letters A, 2007, 22, 2727-2735.	1.2	4
61	Can dark matter be a Boseâ€“Einstein condensate?. Journal of Cosmology and Astroparticle Physics, 2007, 2007, 025-025.	5.4	346
62	Conformally symmetric traversable wormholes. Physical Review D, 2007, 76, .	4.7	68
63	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 ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 412 Td (stretchy="false"	4.7	118
64	Loop quantum dynamics of the Schwarzschild interior. Physical Review D, 2007, 76, .	4.7	144
65	Extra force inf(R)modified theories of gravity. Physical Review D, 2007, 75, .	4.7	684
66	The Einstein-Elko system â€“ Can dark matter drive inflation?. Annalen Der Physik, 2007, 16, 325-341.	2.4	77
67	On Einstein clusters as galactic dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2007, 379, 393-398.	4.4	37
68	Dark energy as a massive vector field. European Physical Journal C, 2007, 50, 423-429.	3.9	108
69	Minimum massâ€“radius ratio for charged gravitational objects. General Relativity and Gravitation, 2007, 39, 757-775.	2.0	129
70	Scales set by the cosmological constant. Classical and Quantum Gravity, 2006, 23, 485-496.	4.0	81
71	Bounds on the basic physical parameters for anisotropic compact general relativistic objects. Classical and Quantum Gravity, 2006, 23, 6479-6491.	4.0	253
72	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

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73	The spherically symmetric Standard Model with gravity. General Relativity and Gravitation, 2005, 37, 1435-1482.	2.0	6
74	A NOTE ON TWO-DIMENSIONAL DILATON GRAVITY WITH NON-SMOOTH POTENTIALS. Modern Physics Letters A, 2005, 20, 1057-1064.	1.2	0
75	ON ASTROPHYSICAL BOUNDS OF THE COSMOLOGICAL CONSTANT. International Journal of Modern Physics D, 2005, 14, 1507-1525.	2.1	21
76	Dynamical instability of fluid spheres in the presence of a cosmological constant. Physical Review D, 2005, 71, .	4.7	32
77	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
78	Eleven Spherically Symmetric Constant Density Solutions with Cosmological Constant. General Relativity and Gravitation, 2004, 36, 1039-1054.	2.0	70