

# Bernd J Schroers

## List of Publications by Year in descending order

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29  
papers

406  
citations

840776  
11  
h-index

794594  
19  
g-index

30  
all docs

30  
docs citations

30  
times ranked

208  
citing authors

#	ARTICLE	IF	CITATIONS
1	Poisson structure and symmetry in the Chern–Simons formulation of (2+1)-dimensional gravity. Classical and Quantum Gravity, 2003, 20, 2193-2233.	4.0	57
2	Magnetic skyrmions, chiral kinks, and holomorphic functions. Physical Review B, 2020, 102, .	3.2	49
3	Bundles over Moduli Spaces and the Quantization of BPS Monopoles. Annals of Physics, 1993, 225, 290-338.	2.8	41
4	$q$ -deformation and semidualization in 3D quantum gravity. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 425402.	2.1	38
5	Magnetic Skyrmions at Critical Coupling. Communications in Mathematical Physics, 2020, 375, 2259-2280.	2.2	35
6	Gauged sigma models and magnetic Skyrmions. SciPost Physics, 2019, 7, .	4.9	25
7	The Interaction Energy of Well-Separated Skyrme Solitons. Communications in Mathematical Physics, 2004, 245, 123-147.	2.2	14
8	On the semiduals of local isometry groups in three-dimensional gravity. Journal of Mathematical Physics, 2012, 53, .	1.1	14
9	Dirac operators on the Taub-NUT space, monopoles and SU(2) representations. Journal of High Energy Physics, 2014, 2014, 1.	4.7	14
10	Geometry and symmetry in skyrmion dynamics. Physical Review B, 2021, 104, .	3.2	14
11	Boundary conditions and symplectic structure in the Chern–Simons formulation of (2+1)-dimensional gravity. Classical and Quantum Gravity, 2005, 22, 3689-3724.	4.0	11
12	Taub–NUT dynamics with a magnetic field. Journal of Geometry and Physics, 2016, 104, 305-328.	1.4	10
13	Unstable manifolds and Schrödinger dynamics of Ginzburg–Landau vortices. Nonlinearity, 2002, 15, 1471-1488.	1.4	9
14	Time evolution in a geometric model of a particle. Journal of High Energy Physics, 2015, 2015, 1.	4.7	8
15	Spectral properties of Schwarzschild instantons. Classical and Quantum Gravity, 2016, 33, 205008.	4.0	8
16	Linked and knotted synthetic magnetic fields. Physical Review A, 2019, 99, .	2.5	8
17	Lessons from (2+1)-dimensional quantum gravity. , 2008, , .		6
18	Classical $r$ -matrices via semidualisation. Journal of Mathematical Physics, 2013, 54, 101702.	1.1	5

#	ARTICLE	IF	CITATIONS
19	Classical $r$ -matrices for the generalised Chern–Simons formulation of 3d gravity. Classical and Quantum Gravity, 2018, 35, 075006.	4.0	5
20	Supersymmetric quantum mechanics of magnetic monopoles: A case study. Nuclear Physics B, 2009, 815, 368-403.	2.5	4
21	Magnetic zero-modes, vortices and Cartan geometry. Letters in Mathematical Physics, 2018, 108, 949-983.	1.1	3
22	Towards Non-Commutative Deformations of Relativistic Wave Equations in 2+1 Dimensions. Symmetry, Integrability and Geometry: Methods and Applications (SIGMA), 0, , .	0.5	3
23	Supercharges, quantum states and angular momentum for supersymmetric monopoles. Nuclear Physics B, 2010, 839, 157-186.	2.5	2
24	Hyperbolic vortices and Dirac fields in 2+1 dimensions. Journal of Physics A: Mathematical and Theoretical, 2018, 51, 295202.	2.1	2
25	Adiabatic Dynamics of Instantons on $S^4$ . Communications in Mathematical Physics, 2017, 353, 185-228.	2.2	1
26	Quantum Bound States in Yang–Mills–Higgs Theory. Communications in Mathematical Physics, 2018, 363, 261-287.	2.2	1
27	Spectral geometry of nuts and bolts. Journal of Physics A: Mathematical and Theoretical, 0, , .	2.1	1
28	Non-commutative waves for gravitational anyons. Letters in Mathematical Physics, 2019, 109, 1433-1471.	1.1	0
29	Solvable Models of Magnetic Skyrmions. , 2021, , 535-544.		0