

Paul M Sutcliffe

List of Publications by Year in descending order

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75
papers

3,587
citations

186265

28
h-index

189892

50
g-index

76
all docs

76
docs citations

76
times ranked

1471
citing authors

#	ARTICLE	IF	CITATIONS
1	Rational maps, monopoles and skyrmions. Nuclear Physics B, 1998, 510, 507-537.	2.5	274
2	Stable Skyrmions in Two-Component Bose-Einstein Condensates. Physical Review Letters, 2002, 88, 080401.	7.8	137
3	Solitons, links and knots. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 1999, 455, 4305-4331.	2.1	131
4	SKYRMIONS, FULLERENES AND RATIONAL MAPS. Reviews in Mathematical Physics, 2002, 14, 29-85.	1.7	106
5	Creation and observation of Hopfions in magnetic multilayer systems. Nature Communications, 2021, 12, 1562.	12.8	95
6	Skyrmion Knots in Frustrated Magnets. Physical Review Letters, 2017, 118, 247203.	7.8	93
7	Skyrmions, instantons and holography. Journal of High Energy Physics, 2010, 2010, 1.	4.7	87
8	BPS Monopoles. International Journal of Modern Physics A, 1997, 12, 4663-4705.	1.5	86
9	Knots in the Skyrme-Faddeev model. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2007, 463, 3001-3020.	2.1	79
10	Hopfions in chiral magnets. Journal of Physics A: Mathematical and Theoretical, 2018, 51, 375401.	2.1	76
11	Skyrmions and the $\hat{I}\pm$ -particle model of nuclei. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2007, 463, 261-279.	2.1	72
12	Gauss-Bonnet holographic superconductors. Journal of High Energy Physics, 2010, 2010, 1.	4.7	71
13	Skyrmions and the pion mass. Nuclear Physics B, 2005, 705, 384-400.	2.5	70
14	Knot theory in modern chemistry. Chemical Society Reviews, 2016, 45, 6432-6448.	38.1	70
15	Polyhedra in Physics, Chemistry and Geometry. Milan Journal of Mathematics, 2003, 71, 33-58.	1.1	65
16	Skyrmions with massive pions. Physical Review C, 2006, 73, .	2.9	63
17	Skyrmions in a truncated BPS theory. Journal of High Energy Physics, 2011, 2011, 1.	4.7	63
18	Solitonic Fullerene Structures in Light Atomic Nuclei. Physical Review Letters, 2001, 86, 3989-3992.	7.8	61

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19	Spinning skyrmions and the Skyrme parameters. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2005, 626, 120-126.	4.1	60
20	Skyrmions and Clustering in Light Nuclei. <i>Physical Review Letters</i> , 2018, 121, 232002.	7.8	45
21	The Sakai-Sugimoto soliton. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	4.7	44
22	Stability of knots in excitable media. <i>Physical Review E</i> , 2003, 68, 016218.	2.1	43
23	Octahedral and dodecahedral monopoles. <i>Nonlinearity</i> , 1996, 9, 385-401.	1.4	42
24	A Skyrme lattice with hexagonal symmetry. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1998, 416, 385-391.	4.1	42
25	The geometry of point particles. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2002, 458, 1089-1115.	2.1	35
26	Broken baby Skyrmions. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2012, 468, 1085-1104.	2.1	35
27	The dynamics of domain wall Skyrmions. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013, 46, 465401.	2.1	33
28	Monopole scattering with a twist. <i>Nuclear Physics B</i> , 1996, 464, 59-84.	2.5	29
29	Skyrmions, instantons, mass and curvature. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2005, 605, 106-114.	4.1	26
30	Symmetric instantons and Skyrme fields. <i>Nonlinearity</i> , 1999, 12, 987-1003.	1.4	25
31	Vortex rings in ferromagnets: Numerical simulations of the time-dependent three-dimensional Landau-Lifshitz equation. <i>Physical Review B</i> , 2007, 76, .	3.2	25
32	Phases of kinky holographic nuclear matter. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	4.7	23
33	Untangling Knots Via Reaction-Diffusion Dynamics of Vortex Strings. <i>Physical Review Letters</i> , 2016, 116, 178101.	7.8	23
34	Skyrmions in models with pions and rho mesons. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	21
35	Instantons and the buckyball. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2004, 460, 2903-2912.	2.1	19
36	Monopoles in AdS. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	4.7	19

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37	Multi-Skyrmions with vector mesons. <i>Physical Review D</i> , 2009, 79, .	4.7	18
38	Aloof baby Skyrmions. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2015, 48, 035401.	2.1	18
39	Vorton construction and dynamics. <i>Nuclear Physics B</i> , 2009, 814, 180-194.	2.5	16
40	Monopole zeros. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996, 376, 103-110.	4.1	15
41	A low-dimensional analogue of holographic baryons. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2014, 47, 135401.	2.1	15
42	Baby Skyrmions stabilized by vector mesons. <i>Physical Review D</i> , 2009, 79, .	4.7	14
43	Platonic Hyperbolic Monopoles. <i>Communications in Mathematical Physics</i> , 2014, 325, 821-845.	2.2	14
44	Holographic Skyrmions. <i>Modern Physics Letters B</i> , 2015, 29, 1540051.	1.9	14
45	Let's twist again. <i>Nature Materials</i> , 2017, 16, 392-393.	27.5	14
46	Length of excitable knots. <i>Physical Review E</i> , 2017, 96, 012218.	2.1	14
47	Cyclic monopoles. <i>Nuclear Physics B</i> , 1997, 505, 517-539.	2.5	12
48	Icosahedral Skyrmions. <i>Journal of Mathematical Physics</i> , 2003, 44, 3543-3554.	1.1	12
49	Kinky vortons. <i>Nuclear Physics B</i> , 2008, 805, 287-304.	2.5	11
50	Formation and evolution of kinky vortons. <i>Journal of Cosmology and Astroparticle Physics</i> , 2009, 2009, 039-039.	5.4	11
51	Hopf solitons in the Nicole model. <i>Journal of Mathematical Physics</i> , 2010, 51, 122305.	1.1	10
52	Hopf solitons and elastic rods. <i>Physical Review D</i> , 2011, 83, .	4.7	10
53	SU(N) monopoles and Platonic symmetry. <i>Journal of Mathematical Physics</i> , 1997, 38, 5576-5589.	1.1	9
54	Schrödinger-Chern-Simons vortex dynamics. <i>Nonlinearity</i> , 2006, 19, 1515-1534.	1.4	9

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55	Hyperbolic vortices with large magnetic flux. <i>Physical Review D</i> , 2012, 85, .	4.7	8
56	Leapfrogging vortex rings in the Landau–Lifshitz equation. <i>Nonlinearity</i> , 2014, 27, 2095-2109.	1.4	8
57	Monopoles and harmonic maps. <i>Journal of Mathematical Physics</i> , 1999, 40, 5440-5455.	1.1	7
58	Stability and the equation of state for kinky vortons. <i>Physical Review D</i> , 2009, 80, .	4.7	7
59	Hyperbolic monopoles, JNR data and spectral curves. <i>Nonlinearity</i> , 2015, 28, 211-235.	1.4	7
60	Soliton dynamics in 3D ferromagnets. <i>Physica D: Nonlinear Phenomena</i> , 2001, 150, 118-126.	2.8	6
61	Polyhedral scattering of fundamental monopoles. <i>Journal of Mathematical Physics</i> , 2003, 44, 3532-3542.	1.1	6
62	Rings on strings in excitable media. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2018, 51, 055102.	2.1	5
63	Magnetic bags in hyperbolic space. <i>Physical Review D</i> , 2015, 92, .	4.7	4
64	The dynamics of a loof baby Skyrmions. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	4.7	4
65	Dynamics of linked filaments in excitable media. <i>Nonlinearity</i> , 2019, 32, 942-957.	1.4	4
66	ADHM polytopes. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	4.7	3
67	Threaded Rings that Swim in Excitable Media. <i>Physical Review Letters</i> , 2019, 123, 258102.	7.8	3
68	Domain walls and double bubbles. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2009, 465, 2911-2925.	2.1	2
69	Hopfions. <i>Reviews in Mathematical Physics</i> , 2018, 30, 1840017.	1.7	2
70	Spectral curves of hyperbolic monopoles from ADHM. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2021, 54, 165401.	2.1	2
71	Boundary metrics on soliton moduli spaces. <i>Journal of High Energy Physics</i> , 2022, 2022, 1.	4.7	1
72	Platonic instantons. <i>European Physical Journal D</i> , 2005, 55, 1515-1520.	0.4	0

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73	Holographic Skyrmions. , 2016, , 595-631.		0
74	Colonies of threaded rings in excitable media. Physical Review E, 2020, 102, 010601.	2.1	0
75	A hyperbolic analogue of the Atiyah-Hitchin manifold. Journal of High Energy Physics, 2022, 2022, 1.	4.7	0