Yisong Yang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1430218/publications.pdf

Version: 2024-02-01

79 papers	1,940 citations	304602 22 h-index	254106 43 g-index
86 all docs	86 docs citations	86 times ranked	363 citing authors

#	Article	IF	Citations
1	Dyonically charged black holes arising in generalized Bornâ€“Infeld theory of electromagnetism. Annals of Physics, 2022, 443, 168996.	1.0	6
2	Yangâ€“Mills monopoles in extremal Reissnerâ€“NordstrÃ¶m black hole metric. Journal of Mathematical Physics, 2021, 62, 052304.	0.5	0
3	Coexisting vortices and antivortices generated by dually gauged harmonic maps. Journal of Mathematical Physics, 2021, 62, 103503.	0.5	0
4	Solutions to the minimization problem arising in a dark monopole model in gauge field theory. Nuclear Physics B, 2020, 951, 114851.	0.9	3
5	Determination of bending angle of light deflection subject to possible weak and strong quantum gravity effects. International Journal of Modern Physics A, 2020, 35, 2050188.	0.5	2
6	Determination of anti-de Sitter monopole wall via minimization. Journal of Mathematical Physics, 2019, 60, 073509.	0.5	0
7	Domain Wall Solitons Arising in Classical Gauge Field Theories. Communications in Mathematical Physics, 2019, 369, 317-349.	1.0	2
8	Integer-squared laws for global vortices in the Bornâ€“Infeld wave equations. Annals of Physics, 2019, 400, 303-319.	1.0	4
9	Determination of angle of light deflection in higher-derivative gravity theories. Journal of Mathematical Physics, 2018, 59, 032501.	0.5	5
10	Determination of gap solution and critical temperature in doped graphene superconductivity. Zeitschrift Fur Angewandte Mathematik Und Physik, 2017, 68, 1.	0.7	1
11	Boundary charges and integral identities for solitons in (d + 1)-dimensional field theories. Nuclear Physics B, 2017, 925, 500-535.	0.9	1
12	Critical pull-in curves of MEMS actuators in presence of Casimir force. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2016, 96, 1406-1422.	0.9	3
13	Non-Abelian clouds around Reissner-NordstrÃ¶m black holes: The existence line. Physical Review D, 2016, 93, .	1.6	1
14	Resolution of Chernâ€“Simonsâ€“Higgs Vortex Equations. Communications in Mathematical Physics, 2016, 343, 701-724.	1.0	8
15	Domain wall equations, Hessian of superpotential, and Bogomol'nyi bounds. Nuclear Physics B, 2016, 904, 470-493.	0.9	11
16	Magnetic impurity inspired Abelian Higgs vortices. Journal of High Energy Physics, 2016, 2016, 1.	1.6	10
17	Relativistic Chernâ€“Simonsâ€“Higgs vortex equations. Transactions of the American Mathematical Society, 2015, 368, 3565-3590.	0.5	6
18	Topologically stratified energy minimizers in a product Abelian field theory. Nuclear Physics B, 2015, 898, 605-626.	0.9	5

#	Article	IF	Citations
19	Existence Theorems for Vortices in the Aharonyâ€“Bergmanâ€“Jaferisâ€“Maldacena Model. Communications in Mathematical Physics, 2015, 333, 229-259.	1.0	4
20	Existence of hyperbolic calorons. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2015, 471, 20140970.	1.0	1
21	Existence of Optical Vortices. SIAM Journal on Mathematical Analysis, 2014, 46, 484-498.	0.9	12
22	Chernâ€“Simons vortices in the Gudnason model. Journal of Functional Analysis, 2014, 267, 678-726.	0.7	14
23	Solutions to the master equations governing fractional vortices. Journal of Differential Equations, 2013, 254, 1437-1463.	1.1	3
24	On a vegetation pattern formation model governed by a nonlinear parabolic system. Nonlinear Analysis: Real World Applications, 2013, 14, 507-525.	0.9	7
25	Existence of multiple vortices in supersymmetric gauge field theory. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2012, 468, 3923-3946.	1.0	32
26	Dynamics of electrostatic microelectromechanical systems actuators. Journal of Mathematical Physics, 2012, 53, 022703.	0.5	11
27	Non-Abelian Vortices in Supersymmetric Gauge Field Theory via Direct Methods. Communications in Mathematical Physics, 2012, 313, 445-478.	1.0	18
28	Sharp existence and uniqueness theorems for non-Abelian multiple vortex solutions. Nuclear Physics B, 2011, 846, 650-676.	0.9	21
29	Existence of Dyons in the Coupled Georgiâ€“Glashowâ€“Skyrme Model. Annales Henri Poincare, 2011, 12, 329-349.	0.8	3
30	Non-Abelian Multiple Vortices in Supersymmetric Field Theory. Communications in Mathematical Physics, 2011, 304, 433-457.	1.0	22
31	Phase transition solutions in geometrically constrained magnetic domain wall models. Journal of Mathematical Physics, 2010, 51, 023504.	0.5	3
32	Steady state solutions for nonlinear SchrÃ¶dinger equation arising in optics. Journal of Mathematical Physics, 2009, 50, 053501.	0.5	16
33	Electrically and magnetically charged vortices in the Chernâ€“Simonsâ€“Higgs theory. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2009, 465, 3489-3516.	1.0	36
34	Proof of the Juliaâ€“Zee Theorem. Communications in Mathematical Physics, 2009, 291, 347-356.	1.0	11
35	Generalized Bernstein property and gravitational strings in Bornâ€“Infeld theory. Nonlinearity, 2007, 20, 1193-1213.	0.6	8
36	Nonlinear non-local elliptic equation modelling electrostatic actuation. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2007, 463, 1323-1337.	1.0	83

#	Article	IF	Citations
37	A system of elliptic equations arising in Chernâ€“Simons field theory. Journal of Functional Analysis, 2007, 247, 289-350.	0.7	44
38	Moduli Space of BPS Walls in Supersymmetric Gauge Theories. Communications in Mathematical Physics, 2006, 267, 783-800.	1.0	18
39	Mathematical analysis of the multiband BCS gap equations in superconductivity. Physica D: Nonlinear Phenomena, 2005, 200, 60-74.	1.3	10
40	Existence of Energy Minimizers as Stable Knotted Solitons in the Faddeev Model. Communications in Mathematical Physics, 2004, 249, 273-303.	1.0	62
41	On Pokrovskii's anisotropic gap equations in superconductivity theory. Nonlinearity, 2003, 16, 2061-2073.	0.6	2
42	Solitons in Field Theory and Nonlinear Analysis. Springer Monographs in Mathematics, 2001, , .	0.1	327
43	On a System of Nonlinear Elliptic Equations Arising in Theoretical Physics. Journal of Functional Analysis, 2000, 170, 1-36.	0.7	15
44	The uniqueness and approximation of a positive solution of the Bardeenâ€“Cooperâ€“Schrieffer gap equation. Journal of Mathematical Physics, 2000, 41, 6007-6025.	0.5	11
45	Classical solutions in the Bornâ€”Infeld theory. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2000, 456, 615-640.	1.0	69
46	Abelian gauge theory on Riemann surfaces and new topological invariants. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2000, 456, 593-613.	1.0	31
47	Strings of opposite magnetic charges in a gauge field theory. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 1999, 455, 601-629.	1.0	36
48	The Lee-Weinberg magnetic monopole of unit charge: existence and uniqueness. Physica D: Nonlinear Phenomena, 1998, 117, 215-240.	1.3	5
49	Coexistence of Vortices and Antivortices in an Abelian Gauge Theory. Physical Review Letters, 1998, 80, 26-29.	2.9	26
50	The Relativistic non-abelian Chern-Simons Equations. Communications in Mathematical Physics, 1997, 186, 199-218.	1.0	72
51	Multiple Instantons Representing Higher-Order Chern-Pontryagin Classes. Communications in Mathematical Physics, 1997, 188, 737-751.	1.0	14
52	Topological solitons in the Weinberg-Salam theory. Physica D: Nonlinear Phenomena, 1997, 101, 55-94.	1.3	7
53	A necessary and sufficient condition for the existence of multisolitons in a self-dual gauged sigma model. Communications in Mathematical Physics, 1996, 181, 485-506.	1.0	31
54	Skyrme models with selfâ€dual limits: d=2,3. Journal of Mathematical Physics, 1996, 37, 2569-2584.	0.5	24

#	Article	IF	Citations
55	Topological and nontopological self-dual Chern-Simons solitons in a gauged O(3)Ïƒ model. Physical Review D, 1996, 54, 5245-5258.	1.6	33
56	Topological solutions in the self-dual Chern-Simons theory: existence and approximation. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 1995, 12, 75-97.	0.7	107
57	Prescribing topological defects for the coupled Einstein and Abelian Higgs equations. Communications in Mathematical Physics, 1995, 170, 541-582.	1.0	36
58	Vortex condensation in the Chern-Simons Higgs model: An existence theorem. Communications in Mathematical Physics, 1995, 168, 321-336.	1.0	187
59	Obstructions to the existence of static cosmic strings in an Abelian Higgs model. Physical Review Letters, 1994, 73, 10-13.	2.9	20
60	Self duality of the gauge field equations and the cosmological constant. Communications in Mathematical Physics, 1994, 162, 481-498.	1.0	17
61	The critical temperature and gap solution in the Bardeen-Cooper-Schrieffer theory of superconductivity. Letters in Mathematical Physics, 1993, 29, 133-150.	0.5	7
62	Abrikosovâ€™s Vortices in the Critical Coupling. SIAM Journal on Mathematical Analysis, 1992, 23, 1125-1140.	0.9	56
63	The existence of non-topological solitons in the self-dual Chern-Simons theory. Communications in Mathematical Physics, 1992, 149, 361-376.	1.0	121
64	On multivortices in the electroweak theory I: Existence of periodic solutions. Communications in Mathematical Physics, 1992, 144, 1-16.	1.0	57
65	On multivortices in the electroweak theory II: Existence of Bogomol'nyi solutions in â„2. Communications in Mathematical Physics, 1992, 144, 215-234.	1.0	31
66	Existence of the massive SO(3) vortices. Journal of Mathematical Physics, 1991, 32, 1395-1399.	0.5	10
67	On the Bardeen-Cooper-Schrieffer integral equation in the theory of superconductivity. Letters in Mathematical Physics, 1991, 22, 27-37.	0.5	15
68	The Ginzburgâ€“Landau equations for superconducting films and the Meissner effect. Journal of Mathematical Physics, 1990, 31, 1284-1289.	0.5	12
69	Vortices on asymptotically Euclidean Riemann surfaces. Nonlinear Analysis: Theory, Methods & Applications, 1990, 15, 577-596.	0.6	5
70	Existence, regularity, and asymptotic behavior of the solutions to the Ginzburg-Landau equations on ?3. Communications in Mathematical Physics, 1989, 123, 147-161.	1.0	22
71	A matrix trace inequality. Journal of Mathematical Analysis and Applications, 1988, 133, 573-574.	0.5	26
72	Notation and convention. , 0, , xiii-xiv.		0

#	Article	IF	Citations
73	Linear mappings. , 0, , 34-77.		0
74	Scalar products. , 0, , 115-146.		0
75	Real quadratic forms and self-adjoint mappings. , 0, , 147-179.		0
76	Complex quadratic forms and self-adjoint mappings. , 0, , 180-204.		0
77	Jordan decomposition. , 0, , 205-225.		0
78	Selected topics. , 0, , 226-247.		0
79	Excursion: Quantum mechanics in a nutshell. , 0, , 248-266.		0