

Masatoshi Sato

List of Publications by Year in descending order

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Version: 2024-02-01

110
papers

10,521
citations

53794

45
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30922

102
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110
all docs

110
docs citations

110
times ranked

5052
citing authors

#	ARTICLE	IF	CITATIONS
1	Spin susceptibility for orbital-singlet Cooper pair in the three-dimensional Sr_2RuO_4 superconductor. Physical Review Research, 2022, 4, .	3.2	2
2	Extrinsic topology of Floquet anomalous boundary states in quantum walks. Physical Review B, 2022, 105, .	3.2	2
3	Non-Hermitian Skin Effects in Hermitian Correlated or Disordered Systems: Quantities Sensitive or Insensitive to Boundary Effects and Pseudo-Quantum-Number. Physical Review Letters, 2021, 126, 176601.	7.8	55
4	Electromagnetic response of topological superconductors. Physical Review B, 2021, 103, .	3.2	2
5	Majorana multipole response: General theory and application to wallpaper groups. Physical Review B, 2021, 103, .	3.2	4
6	Non-Hermitian higher-order Dirac semimetals. Physical Review B, 2021, 104, .	3.2	32
7	Non-Hermitian higher-order Weyl semimetals. Physical Review B, 2021, 104, .	3.2	29
8	Nielsen-Ninomiya Theorem with Bulk Topology: Duality in Floquet and Non-Hermitian Systems. Physical Review Letters, 2021, 127, 196404.	7.8	20
9	Topological quantum walk with discrete time-glide symmetry. Physical Review B, 2020, 102, .	3.2	9
10	Higher-order non-Hermitian skin effect. Physical Review B, 2020, 102, .	3.2	161
11	Topological Classification of Non-Hermitian Gapless Phases: Exceptional Points and Bulk Fermi Arcs. , 2020, . , .		5
12	Spin Hall conductivity in topological Dirac semimetals. Physical Review B, 2020, 101, .	3.2	10
13	Non-Bloch band theory of non-Hermitian Hamiltonians in the symplectic class. Physical Review B, 2020, 101, .	3.2	100
14	Hermitian zero modes protected by nonnormality: Application of pseudospectra. Physical Review B, 2020, 102, .	3.2	31
15	Topological Origin of Non-Hermitian Skin Effects. Physical Review Letters, 2020, 124, 086801.	7.8	597
16	Identifying possible pairing states in Sr_2RuO_4 by tunneling spectroscopy. Physical Review B, 2020, 101, .	3.2	9
17	Superconductivity in the nonsymmorphic line-nodal compound CaSb_2 . Physical Review Materials, 2020, 4, .	3.2	14
18	Real spectra in non-Hermitian topological insulators. Physical Review Research, 2020, 2, .	3.6	24

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19	Geometric criterion for solvability of lattice spin systems. Physical Review B, 2020, 102, .	3.2	6
20	Classification of Exceptional Points and Non-Hermitian Topological Semimetals. Physical Review Letters, 2019, 123, 066405.	7.8	244
21	Symmetry and Topology in Non-Hermitian Physics. Physical Review X, 2019, 9, .	8.9	683
22	Majorana Multipole Response of Topological Superconductors. Physical Review Letters, 2019, 123, 097002.	7.8	18
23	Topological Phase Transition Driven by Infinitesimal Instability: Majorana Fermions in Non-Hermitian Spintronics. Physical Review Letters, 2019, 123, 097701.	7.8	95
24	Topological crystalline superconductivity in Dirac semimetal phase of iron-based superconductors. Physical Review B, 2019, 100, .	3.2	13
25	Time-reversal invariant superconductivity of Sr_2RuO_4 revealed by Josephson effects. Physical Review B, 2019, 100, .	2.2	17
26	Axion Instability and Nonlinear Electromagnetic Effect. Journal of the Physical Society of Japan, 2019, 88, 024402.	1.6	8
27	Influence of edge magnetization and electric fields on zigzag silicene, germanene and stanene nanoribbons. Journal of Physics Condensed Matter, 2019, 31, 105302.	1.8	9
28	Topological classification under nonmagnetic and magnetic point group symmetry: Application of real-space Atiyah-Hirzebruch spectral sequence to higher-order topology. Physical Review B, 2019, 99, .	3.2	40
29	Multiple topological states in iron-based superconductors. Nature Physics, 2019, 15, 41-47.	16.7	170
30	Surface superconductivity on Weyl semimetal induced by nonmagnetic and ferromagnetic tips. Physical Review Materials, 2019, 3, .	2.4	12
31	Theoretical band structure of the superconducting antiperovskite oxide Sr_2RuO_4 . Physical Review B, 2019, 100, 074506.	2.7	11
32	Topological Crystalline Materials of Sr_2RuO_4 : Electrons, Antiperovskites, Dirac Points, and High Winding Topological Superconductivity. Physical Review X, 2018, 8, .	8.9	36
33	Spin-orbit coupling and topological states in an F_2 cold Fermi gas. Physical Review B, 2018, 98, .	3.2	12
34	Symmetry-protected line nodes and Majorana flat bands in nodal crystalline superconductors. Physical Review B, 2018, 97, .	3.2	25
35	Edge states of hydrogen terminated monolayer materials: silicene, germanene and stanene ribbons. Journal of Physics Condensed Matter, 2017, 29, 115302.	1.8	22
36	Topological superconductors: a review. Reports on Progress in Physics, 2017, 80, 076501.	20.1	1,011

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37	Topological crystalline materials: General formulation, module structure, and wallpaper groups. Physical Review B, 2017, 95, .	3.2	98
38	Anisotropic Magnetic Responses of Topological Crystalline Superconductors. Crystals, 2017, 7, 58.	2.2	18
39	Topological Number from Entanglement. JPSJ News and Comments, 2016, 13, 04.	0.1	5
40	Superconductivity in the antiperovskite Dirac-metal oxide Sr $3\hat{x}$ SnO. Nature Communications, 2016, 7, 13617.	12.8	107
41	Topology of nonsymmorphic crystalline insulators and superconductors. Physical Review B, 2016, 93, .	3.2	124
42	Photovoltaic chiral magnetic effect in Weyl semimetals. Physical Review B, 2016, 93, .	3.2	61
43	Superconductivity in doped Dirac semimetals. Physical Review B, 2016, 94, .	3.2	59
44	Topologically stable gapless phases in nonsymmorphic superconductors. Physical Review B, 2016, 94, .	3.2	44
45	Majorana Fermions and Topology in Superconductors. Journal of the Physical Society of Japan, 2016, 85, 072001.	1.6	266
46	Symmetry-Protected Topological Superfluids and Superconductors "From the Basics to ^3He ". Journal of the Physical Society of Japan, 2016, 85, 022001.	1.6	110
47	Symmetry-protected vortex bound state in superfluid ^3He . Physical Review B, 2015, 91, .	3.2	16
48	Topological surface states in nonsymmorphic crystalline insulators: Möbius twist in surface states. Physical Review B, 2015, 91, .	3.2	134
49	Surface electronic state of superconducting topological crystalline insulator. Physical Review B, 2015, 92, .	3.2	25
50	Fragile surface zero-energy flat bands in three-dimensional chiral superconductors. Physical Review B, 2015, 92, .	3.2	28
51	Majorana braiding dynamics in nanowires. Physical Review B, 2015, 91, .	3.2	40
52	Topological Superconductivity in Dirac Semimetals. Physical Review Letters, 2015, 115, 187001.	7.8	134
53	Crossed Surface Flat Bands of Weyl Semimetal Superconductors. Physical Review Letters, 2015, 114, 096804.	7.8	74
54	Symmetry protected topological superfluid ^3He -B. Journal of Physics Condensed Matter, 2015, 27, 113203.	1.8	36

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55	Dirac-fermion-induced parity mixing in superconducting topological insulators. Physical Review B, 2014, 90, .	3.2	52
56	Topological Blount's theorem of odd-parity superconductors. Physical Review B, 2014, 90, .	3.2	82
57	Mirror Majorana zero modes in spinful superconductors/superfluids Non-Abelian anyons in integer quantum vortices. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 55, 20-24.	2.7	21
58	Topological zero modes and Dirac points protected by spatial symmetry and chiral symmetry. Physical Review B, 2014, 90, .	3.2	56
59	Effect of Fermi surface evolution on superconducting gap in superconducting topological insulator. Superconductor Science and Technology, 2014, 27, 104002.	3.5	16
60	Topology of crystalline insulators and superconductors. Physical Review B, 2014, 90, .	3.2	376
61	Quasi-Classical Theory of Tunneling Spectroscopy in Superconducting Topological Insulator. Journal of the Physical Society of Japan, 2014, 83, 064705.	1.6	21
62	Interference of Majorana fermions in NS junctions. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 55, 13-19.	2.7	17
63	Theory of tunneling spectroscopy in a superconducting topological insulator. Physica C: Superconductivity and Its Applications, 2013, 494, 20-23.	1.2	0
64	Anomalous Josephson current in superconducting topological insulator. Physical Review B, 2013, 87, .	3.2	18
65	Topological phases of quasi-one-dimensional fermionic atoms with a synthetic gauge field. New Journal of Physics, 2013, 15, 075010.	2.9	41
66	UPT ₃ as a Topological Crystalline Superconductor. Journal of the Physical Society of Japan, 2013, 82, 113707.	1.6	58
67	Symmetry-Protected Majorana Fermions in Topological Crystalline Superconductors: Theory and Application to Sr_2RuO_4 . Physical Review Letters, 2013, 111, 087002.	7.8	123
68	Bulk Electronic State of Superconducting Topological Insulator. Journal of the Physical Society of Japan, 2013, 82, 044704.	1.6	47
69	Symmetry-Protected Topological Order and Spin Susceptibility in Superfluid 3He . Physical Review Letters, 2012, 109, 165301.	7.8	69
70	Symmetry and Topology in Superconductors â€œOdd-Frequency Pairing and Edge Statesâ€œ. Journal of the Physical Society of Japan, 2012, 81, 011013.	1.6	453
71	Theory of tunneling spectroscopy for chiral topological superconductors. Physical Review B, 2012, 86, .	3.2	19
72	Theory of tunneling conductance and surface-state transition in superconducting topological insulators. Physical Review B, 2012, 85, .	3.2	104

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73	Majorana fermions in topological superconductors with spin-orbit interaction. Journal of Physics: Conference Series, 2012, 391, 012150.	0.4	3
74	Surface density of states and topological edge states in noncentrosymmetric superconductors. Physical Review B, 2011, 83, .	3.2	115
75	Edge states and topological phases in non-Hermitian systems. Physical Review B, 2011, 84, .	3.2	381
76	Theory of edge states in a quantum anomalous Hall insulator/spin-singlets-wave superconductor hybrid system. Physical Review B, 2011, 83, .	3.2	16
77	Topology of Andreev bound states with flat dispersion. Physical Review B, 2011, 83, .	3.2	268
78	Topological Superconductivity in $\text{Cu}_x\text{Bi}_{1-x}\text{Sb}$. Physical Review Letters, 2011, 107, 217001.	7.8	389
79	Existence of Majorana Fermions and Topological Order in Nodal Superconductors with Spin-Orbit Interactions in External Magnetic Fields. Physical Review Letters, 2010, 105, 217001.	7.8	105
80	Topological odd-parity superconductors. Physical Review B, 2010, 81, .	3.2	230
81	Non-Abelian topological orders and Majorana fermions in spin-singlet superconductors. Physical Review B, 2010, 82, .	3.2	242
82	Topological properties of spin-triplet superconductors and Fermi surface topology in the normal state. Physical Review B, 2009, 79, .	3.2	145
83	Zero modes, energy gap, and edge states of anisotropic honeycomb lattice in a magnetic field. Physical Review B, 2009, 80, .	3.2	21
84	Non-Abelian Topological Order in s -Wave Superfluids of Ultracold Fermionic Atoms. Physical Review Letters, 2009, 103, 020401.	7.8	640
85	Topological phases of noncentrosymmetric superconductors: Edge states, Majorana fermions, and non-Abelian statistics. Physical Review B, 2009, 79, .	3.2	507
86	Universal distribution of spectral-flow gaps in the Rashba model with disorder. Physical Review B, 2007, 75, .	3.2	3
87	ON DISAGREEMENT ABOUT NONPERTURBATIVE CORRECTIONS IN TRIPLE-WELL POTENTIAL. Modern Physics Letters A, 2005, 20, 881-896.	1.2	1
88	Non-Abelian statistics of axion strings. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 575, 126-130.	4.1	61
89	N-fold supersymmetry in quantum mechanics—analyses of particular models. Journal of Mathematical Physics, 2002, 43, 3484-3510.	1.1	21
90	-fold supersymmetry in quantum mechanics: general formalism. Nuclear Physics B, 2001, 619, 105-127.	2.5	100

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91	n -fold supersymmetry for a periodic potential. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 498, 117-122.	4.1	21
92	General forms of a n -fold supersymmetric family. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 503, 423-429.	4.1	76
93	$sl(2)$ construction of type A N -fold supersymmetry. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 519, 260-268.	4.1	21
94	Classification of type A N -fold supersymmetry. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 521, 400-408.	4.1	15
95	Mechanism of Spin-Triplet Superconductivity in Sr_2RuO_4 . Journal of the Physical Society of Japan, 2000, 69, 3505-3508.	1.6	81
96	Valley views: instantons, large order behaviors, and supersymmetry. Nuclear Physics B, 1999, 553, 644-710.	2.5	50
97	Valleys in quantum mechanics. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 424, 93-100.	4.1	14
98	Fake Instability in the Euclidean Formalism of Quantum Tunneling. Physical Review Letters, 1997, 79, 4052-4055.	7.8	12
99	Study of Spin-Gap Formation in Quasi-Two-Dimensional $S=1/2$ System CaV_4O_9 : Neutron Scattering and NMR. Journal of the Physical Society of Japan, 1997, 66, 793-802.	1.6	61
100	Recent Developments of the Theory of Tunneling. Progress of Theoretical Physics Supplement, 1997, 127, 1-92.	0.1	18
101	Evolution of Spin Gap in the Excitation Spectra of Quasi-Two-Dimensional $S=1/2$ System CaV_4O_9 . Journal of the Physical Society of Japan, 1996, 65, 1941-1944.	1.6	15
102	VALLEY INSTANTON IN THE GAUGE-HIGGS SYSTEM. Modern Physics Letters A, 1996, 11, 43-54.	1.2	4
103	Electronic Structure of the Quasi Two-Dimensional Mott System $BaCo_{1-x}Ni_xS_2$. Journal of the Physical Society of Japan, 1996, 65, 1782-1786.	1.6	33
104	Relationship between the Structural Transitions and the Low Temperature Electronic State of $(La, Tl)_{1-x}Bi_xO_3$. Journal of the Physical Society of Japan, 1996, 65, 1787-1790.	1.6	29
105	Temperature Dependence of the Magnetic Excitation Spectra of $YBa_2Cu_{2.9}Zn_{0.1}O_{6.75}$. Journal of the Physical Society of Japan, 1993, 62, 4009-4015.	1.6	30
106	Pulse Response of the Charge-Density Wave in $K_0.30MoO_3$. Journal of the Physical Society of Japan, 1985, 54, 3004-3011.	1.6	21
107	Electrical Response Of $K_{0.30}MoO_3$ Around Incommensurate-Nearly Commensurate Change At 100k. Molecular Crystals and Liquid Crystals, 1985, 121, 129-132.	0.8	1
108	Transport Properties of the Charge-Density-Wave State in $K_0.30MoO_3$. Journal of the Physical Society of Japan, 1984, 53, 3946-3951.	1.6	26

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109	Observation of Linear and Nonlinear Relaxations of Fluid Dynamical Motion in Liquid Crystal. Journal of the Physical Society of Japan, 1977, 42, 433-436.	1.6	7
110	Study of Anomalous Surface Magnetization of Ni by Polarized Neutrons. Journal of the Physical Society of Japan, 1975, 39, 1467-1472.	1.6	31