

Mario Cuoco

List of Publications by Year in descending order

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155
papers

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157
all docs

157
docs citations

157
times ranked

2180
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards Oxide Electronics: a Roadmap. Applied Surface Science, 2019, 482, 1-93.	3.1	236
2	Berry phase engineering at oxide interfaces. Physical Review Research, 2020, 2, .	1.3	64
3	Edge States and Topological Insulating Phases Generated by Curving a Nanowire with Rashba Spin-Orbit Coupling. Physical Review Letters, 2015, 115, 256801.	2.9	48
4	Spin-active interfaces and unconventional pairing in half-metal/superconductor junctions. Physical Review B, 2010, 81, .	1.1	45
5	Probing spin-orbital-lattice correlations in 4d systems. Physical Review B, 2006, 73, .	1.1	44
6	Energy bands and Fermi surface of Sr ₂ RuO ₄ . Physical Review B, 1999, 59, 2659-2666.	1.1	42
7	Coexistence of Ferromagnetism and Singlet Superconductivity via Kinetic Exchange. Physical Review Letters, 2003, 91, 197003.	2.9	36
8	Proximity effect between an unconventional superconductor and a ferromagnet with spin bandwidth asymmetry. Physical Review B, 2008, 78, .	1.1	36
9	Designing electron spin textures and spin interferometers by shape deformations. Physical Review B, 2016, 94, .	1.1	36
10	Interplay of Coulomb interactions and c-axis octahedra distortions in single-layer ruthenates. Physical Review B, 2006, 74, .	1.1	35
11	Spin-Orbital Order Modified by Orbital Dilution in Transition-Metal Oxides: From Spin Defects to Frustrated Spins Polarizing Host Orbitals. Physical Review X, 2015, 5, .	2.8	35
12	Renormalized band structure of Sr ₂ RuO ₄ : A quasiparticle tight-binding approach. Journal of Electron Spectroscopy and Related Phenomena, 2013, 191, 48-53.	0.8	34
13	Spin-Orbital Excitations in Ca_2MnO_4 . Physical Review B, 2003, 68, 040401.	2.8	33
14	Electronic structure trends in the Sr _{1-x} Ca _x RuO ₄ system. Physical Review B, 2003, 68, 040402.	1.1	32
15	Challenges in identifying chiral spin textures via the topological Hall effect. Communications Materials, 2022, 3, .	2.9	32
16	Magnetic anisotropy and orbital ordering in Ca_2MnO_4 . Physical Review B, 2018, 98, .	1.1	31
17	Properties of Sr_2RuO_4 . Physical Review B, 2014, 89, .	1.1	29
18	Interorbital topological superconductivity in spin-orbit coupled superconductors with inversion symmetry breaking. Physical Review B, 2018, 97, .	1.1	29

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19	Theoretical study of the optical conductivity of NaV_2O_5 . Physical Review B, 1999, 60, R8438-R8441.	1.1	28
20	Spin-sensitive long-range proximity effect in ferromagnet/spin-triplet-superconductor bilayers. Physical Review B, 2011, 83, .	1.1	28
21	Josephson effect in S/F/S junctions: Spin bandwidth asymmetry versus Stoner exchange. Physical Review B, 2011, 83, .	1.1	27
22	Temperature dependence of optical spectral weights in quarter-filled ladder systems. Physical Review B, 2002, 65, .	1.1	26
23	Superconductivity in Sr_2RuO_4 - $\text{Sr}_3\text{Ru}_2\text{O}_7$ eutectic crystals. Europhysics Letters, 2008, 83, 27007.	0.7	26
24	Spin-Orbital Coupling in a Triplet Superconductor-Ferromagnet Junction. Physical Review Letters, 2013, 111, 097003.	2.9	26
25	Evidence of double-gap superconductivity in noncentrosymmetric Nb_2Te_3 crystals. Physical Review B, 2015, 91, .	1.1	26
26	Controlling Majorana states in topologically inhomogeneous superconductors. Physical Review B, 2017, 95, .	1.1	26
27	Electrically Tunable Superconductivity Through Surface Orbital Polarization. Physical Review Applied, 2020, 14, .	1.5	25
28	Unveiling mechanisms of electric field effects on superconductors by a magnetic field response. Physical Review Research, 2020, 2, . Double metamagnetic transition in $\text{Sr}_4\text{Ru}_3\text{O}_{10}$	1.3	25
29	Double metamagnetic transition in $\text{Sr}_4\text{Ru}_3\text{O}_{10}$. Physical Review B, 2014, 90, .	1.1	22
30	Novel Spin-Orbital Phases Induced by Orbital Dilution. Journal of Superconductivity and Novel Magnetism, 2016, 29, 563-567.	0.8	22
31	Tuning pairing amplitude and spin-triplet texture by curving superconducting nanostructures. Physical Review B, 2017, 96, .	1.1	22
32	Synthetic Weyl Points and Chiral Anomaly in Majorana Devices with Nonstandard Andreev-Bound-State Spectra. Physical Review Letters, 2019, 123, 126802.	2.9	22
33	Superconductor-insulator transition driven by local dephasing. Physical Review B, 2004, 70, .	1.1	21
34	Spin-orbital nature of the high-field magnetic state in the $\text{Sr}_4\text{Ru}_3\text{O}_{10}$. Physical Review B, 2016, 93, .	1.1	21
35	Magnetic-field-induced topological reorganization of a p -wave superconductor. Physical Review B, 2016, 94, .	1.1	21
36	Field-induced transition from chiral spin-triplet to mixed-parity Fulde-Ferrell-Larkin-Ovchinnikov superconductivity. Physical Review B, 2010, 81, .	1.1	20

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37	Coupling Charge and Topological Reconstructions at Polar Oxide Interfaces. Physical Review Letters, 2021, 127, 127202.	2.9	20
38	Exact-diagonalization method for correlated-electron models. Physical Review B, 1996, 54, 13047-13051.	1.1	19
39	Field-induced orbital patterns in ferromagnetic layered ruthenates. Physical Review B, 2010, 82, .	1.1	19
40	Doping dependence of magnetic excitations of one-dimensional cuprates as probed by resonant inelastic x-ray scattering. Physical Review B, 2011, 83, .	1.1	19
41	Charge and spin transport through a ferromagnet/insulator/unconventional superconductor junction. Physical Review B, 2011, 83, .	1.1	19
42	Magnetic Intragap States and Mixed Parity Pairing at the Edge of Spin-Triplet Superconductors. Physical Review Letters, 2013, 110, 267002.	2.9	19
43	Nature of the apical and planar oxygen bonds in the Sr ₂ RuO ₄ . Physical Review B, 2008, 77, .	1.1	19
44	Coexistence of spin polarization and pairing correlations in metallic grains. Physical Review B, 2006, 74, .	1.1	18
45	Coexistence of itinerant ferromagnetism and a nonunitary superconducting state with line nodes: Possible application to Sr ₂ RuO ₄ . Physical Review B, 2008, 77, .	1.1	18
46	Collective properties of eutectic ruthenates: Role of nanometric inclusions. Physical Review B, 2012, 85, .	1.1	18
47	Multiple band crossings and Fermi surface topology: Role of double nonsymmorphic symmetries in MnP-type crystal structures. Physical Review Materials, 2019, 3, .	0.9	18
48	Proximity effects in a spin-triplet superconductor-ferromagnet heterostructure with a spin-active interface. Physical Review B, 2013, 88, .	1.1	17
49	CURVATURE-INDUCED RASHBA SPIN-ORBIT INTERACTION IN STRAIN-DRIVEN NANOSTRUCTURES. Spin, 2013, 03, 1340002.	0.6	17
50	Neutron diffraction study of triple-layered Sr ₄ Ru ₃ O ₁₀ . Journal of Physics Condensed Matter, 2013, 25, 056004.	0.7	17
51	Topological gapless phases in nonsymmorphic antiferromagnets. Physical Review B, 2017, 95, .	1.1	17
52	Evolution of topological superconductivity by orbital-selective confinement in oxide nanowires. Physical Review B, 2019, 100, .	1.1	17
53	Nodal superconducting exchange coupling. Nature Materials, 2019, 18, 1194-1200.	13.3	17
54	Surface and bulk electronic structure of the unconventional superconductor Sr ₂ RuO ₄ : unusual splitting of the I^2 band. New Journal of Physics, 2012, 14, 063039.	1.2	16

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55	Zigzag and Checkerboard Magnetic Patterns in Orbitally Directional Double-Exchange Systems. <i>Physical Review Letters</i> , 2015, 114, 247002.	2.9	16
56	Interplay between Hund coupling and Hubbard interaction in Sr ₂ RuO ₄ . <i>Physical Review B</i> , 1998, 57, 11989-11993.	1.1	15
57	Exotic Spin-Orbital Physics in Hybrid Oxides. <i>Journal of Superconductivity and Novel Magnetism</i> , 2017, 30, 129-134.	0.8	15
58	Origin of the optical gap in half-doped manganites. <i>Physical Review B</i> , 2002, 66, .	1.1	14
59	Boson-fermion model: An exact diagonalization study. <i>Physical Review B</i> , 2003, 67, .	1.1	14
60	¹⁵¹ SR studies of superconductivity in eutectically grown mixed ruthenates. <i>Physical Review B</i> , 2012, 85, .	1.1	14
61	Gate Control of the Current-Flux Relation of a Josephson Quantum Interferometer Based on Proximitized Metallic Nanojunctions. <i>ACS Applied Electronic Materials</i> , 2021, 3, 3927-3935.	2.0	14
62	Absence of long-range order in the one- and two-dimensional Anderson lattice model. <i>Physical Review B</i> , 1999, 59, 7409-7412.	1.1	13
63	From an insulating to a superfluid pair-bond liquid. <i>Physical Review B</i> , 2006, 74, .	1.1	13
64	Exact Solution for a Trapped Fermi Gas with Population Imbalance and BCS Pairing. <i>Physical Review Letters</i> , 2008, 100, 140406.	2.9	13
65	Probing itinerant ferromagnetism with a ferromagnet/insulator/superconductor junction. <i>Physical Review B</i> , 2009, 80, .	1.1	13
66	Spin-orbit coupling effects on the electronic properties of the pressure-induced superconductor CrAs. <i>European Physical Journal: Special Topics</i> , 2019, 228, 631-641.	1.2	13
67	Effect of magnetic fluctuations on the normal-state properties of Sr ₂ RuO ₄ . <i>Europhysics Letters</i> , 2000, 51, 195-201.	0.7	12
68	Nodal Andreev spectra in multi-Majorana three-terminal Josephson junctions. <i>Physical Review B</i> , 2020, 101, .	1.1	12
69	Coexistence of strong pairing correlations and itinerant ferromagnetism arising from spin asymmetric bandwidths: A reduced BCS model study. <i>Physical Review B</i> , 2008, 78, .	1.1	11
70	Topological quantum pump in serpentine-shaped semiconducting narrow channels. <i>Physical Review B</i> , 2018, 97, .	1.1	11
71	Independent Geometrical Control of Spin and Charge Resistances in Curved Spintronics. <i>Nano Letters</i> , 2019, 19, 6839-6844.	4.5	11
72	Spin-orbital hallmarks of unconventional superconductors without inversion symmetry. <i>Physical Review B</i> , 2019, 100, .	1.1	11

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73	Magnetoelectrically tunable Andreev bound state spectra and spin polarization in p -wave Josephson junctions. Physical Review B, 2019, 100, .	1.1	11
74	Geometric driving of two-level quantum systems. Physical Review Research, 2020, 2, .	1.3	11
75	Unveiling unconventional magnetism at the surface of Sr ₂ RuO ₄ . Nature Communications, 2021, 12, 5792.	5.8	11
76	Phenomenological model for magnetotransport in a multiorbital system. Physical Review B, 2000, 62, 9884-9887.	1.1	10
77	Topological Phases Emerging from Spin-Orbital Physics. Journal of Superconductivity and Novel Magnetism, 2018, 31, 639-645.	0.8	10
78	Magnetic manipulation of topological states in p -wave superconductors. Physica B: Condensed Matter, 2018, 536, 730-733.	1.3	10
79	ground-state orbital population in the $d_{x^2-y^2}$ Mott insulator $\text{Ca}_{1-x}\text{Ce}_x\text{RuO}_4$. Physical Review B, 2019, 100, .	1.1	10
80	Orbital tunable $\text{La}_{1-x}\text{Ce}_x\text{RuO}_4$ transitions in Josephson junctions with noncentrosymmetric topological superconductors. Physical Review B, 2020, 102, .	1.1	10
81	Colossal Orbital Edelstein Effect in Noncentrosymmetric Superconductors. Physical Review Letters, 2022, 128, .	2.9	10
82	Generalized hole-particle transformations and spin reflection positivity in multiorbital systems. Physical Review B, 2002, 65, .	1.1	9
83	Field response of metallic grains with magnetic and pairing correlations. Physical Review B, 2006, 74, .	1.1	9
84	Nonlocal voltage effects in $\text{La}_{1-x}\text{Ce}_x\text{RuO}_4$. Physical Review B, 2009, 79, .	1.1	9
85	Spectroscopic signatures of gate-controlled superconducting phases. Physical Review Research, 2021, 3, .	1.3	9
86	Phenomenological model of ferromagnetic superconductors. Physical Review B, 2003, 68, .	1.1	8
87	Topological superconducting phases and Josephson effect in curved superconductors with time reversal invariance. Physical Review B, 2020, 101, .	1.1	8
88	Gate-tunable pairing channels in superconducting non-centrosymmetric oxides nanowires. Npj Quantum Materials, 2022, 7, .	1.8	8
89	Angle-resolved Photoemission Spectroscopy At Ultra-low Temperatures. Journal of Visualized Experiments, 2012, , .	0.2	7
90	Control of magnetism in singlet-triplet superconducting heterostructures. Physical Review B, 2016, 93, .	1.1	7

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91	Control of edge currents at a ferromagnet-triplet superconductor interface by multiple helical modes. <i>Physical Review B</i> , 2016, 93, .	1.1	7
92	Nodal s-wave superconductivity in antiferromagnetic semimetals. <i>Physical Review B</i> , 2018, 97, .	1.1	7
93	Topological signatures of the coexistence of antiferromagnetism and odd-parity spin-triplet superconductivity. <i>AIP Advances</i> , 2018, 8, .	0.6	7
94	Variational study of the extended Hubbard-Holstein model on clusters of variable site spacing. <i>Physical Review B</i> , 2001, 63, .	1.1	6
95	Coexistence of Superconductivity and Magnetism in Ruthenocuprates. <i>Advances in Science and Technology</i> , 0, , .	0.2	6
96	Does a ferromagnet with spin-dependent masses produce a spin-filtering effect in a ferromagnetic/insulator/superconductor junction?. <i>Superconductor Science and Technology</i> , 2011, 24, 024021.	1.8	6
97	Spin-orbital polarization of Majorana edge states in oxide nanowires. <i>Physical Review B</i> , 2020, 102, .	1.1	6
98	Frustration-driven Josephson phase dynamics. <i>Physical Review B</i> , 2022, 105, .	1.1	6
99	Temperature dependence of the superconducting energy gap from conductance curves. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1996, 18, 1449-1454.	0.4	5
100	Application of the Global SO(4) Symmetry in the Diagonalization of Translationally Invariant Correlated Electron Models. <i>International Journal of Modern Physics B</i> , 1997, 11, 2511-2532.	1.0	5
101	Driving topological phases by spatially inhomogeneous pairing centers. <i>Physical Review B</i> , 2017, 95, .	1.1	5
102	Interface currents and magnetization in singlet-triplet superconducting heterostructures: Role of chiral and helical domains. <i>Physical Review B</i> , 2017, 96, .	1.1	5
103	Thermodynamical properties of the Hubbard model on finite-size clusters. <i>Physica C: Superconductivity and Its Applications</i> , 1997, 282-287, 1705-1706.	0.6	4
104	Electronic Structure of Sr ₂ RuO ₄ . <i>International Journal of Modern Physics B</i> , 1999, 13, 1157-1162.	1.0	4
105	Charge and orbital order in half-doped manganites. <i>Physica B: Condensed Matter</i> , 2002, 318, 333-337.	1.3	4
106	Tuning Crystal Field Potential by Orbital Dilution in Strongly Correlated d ₄ Oxides. <i>Journal of Superconductivity and Novel Magnetism</i> , 2020, 33, 2375-2381.	0.8	4
107	Inverse proximity effects at spin-triplet superconductor-ferromagnet interface. <i>Physical Review Research</i> , 2021, 3, .	1.3	4
108	Anomalous Hall effect in antiferromagnetic/nonmagnetic interfaces. <i>Physical Review Research</i> , 2020, 2, .	1.3	4

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109	Supersolid in the periodic Anderson model. <i>Physical Review B</i> , 1999, 59, 14831-14832.	1.1	3
110	Evolution of spinon Fermi surface and magnetic response of hyperkagome spin liquids. <i>Physical Review B</i> , 2013, 88, .	1.1	3
111	Analogies between Jahn-Teller and Rashba spin physics. <i>International Journal of Quantum Chemistry</i> , 2016, 116, 1442-1450.	1.0	3
112	Magnetoelectric effects and spin switching phenomena at the interface of chiral domains in spin-triplet superconductors. <i>Physical Review B</i> , 2019, 99, .	1.1	3
113	Fermi surface and kink structures in $\text{Sr}_{4}\text{Ru}_{3}\text{O}_{10}$ revealed by synchrotron-based ARPES. <i>Scientific Reports</i> , 2020, 10, 21062.	1.6	3
114	Resonant inelastic x-ray scattering study of CaO_7 . <i>Physical Review B</i> , 2020, 102, .	1.1	3
115	Doped spin-orbital Mott insulators: Orbital dilution versus spin-orbital polarons. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 543, 168616.	1.0	3
116	Orbital vortices in s -wave spin-singlet superconductors in zero magnetic field. <i>Physical Review B</i> , 2022, 105, .	1.1	3
117	On the symmetries of the Hubbard model: application to finite-size clusters. <i>European Physical Journal D</i> , 1996, 46, 1875-1876.	0.4	2
118	Rigorous results for the one-dimensional symmetric Anderson model. <i>Physical Review B</i> , 1996, 54, 11951-11952.	1.1	2
119	The Anderson lattice model with the Falicov-Kimball interaction in the limit of infinite-range hopping. <i>Solid State Communications</i> , 1998, 106, 27-30.	0.9	2
120	Competition between magnetic and superconducting pairing exchange interactions in confined systems. <i>Physical Review B</i> , 2007, 76, .	1.1	2
121	Superconducting behaviour via percolation in Sr_2RuO_4 - $\text{Sr}_3\text{Ru}_2\text{O}_7$ eutectic crystals. <i>Journal of Physics: Conference Series</i> , 2009, 150, 052056.	0.3	2
122	Phase diagram and deformed phase separation for a trapped Fermi gas with population imbalance and BCS pairing interaction. <i>European Physical Journal B</i> , 2010, 78, 43-49.	0.6	2
123	Josephson Current in Rashba-Based Superconducting Nanowires with Geometric Misalignment: Rashba-Based Superconducting Nanowires with Geometric Misalignment. , 2017, , .		2
124	Ground state properties of half-filled Hubbard model. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1997, 232, 281-285.	0.9	1
125	d-Wave Tunnel Junctions. <i>International Journal of Modern Physics B</i> , 1999, 13, 1295-1299.	1.0	1
126	Spin and Charge Correlations in the Extended Hubbard-Holstein Model. <i>International Journal of Modern Physics B</i> , 1999, 13, 1183-1188.	1.0	1

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127	A study of the Hubbard-Holstein model on a four-site chain. Physica B: Condensed Matter, 1999, 259-261, 725-726.	1.3	1
128	Effect of the intersite Coulomb interaction in the Hubbard-Holstein model on a four-site chain. Physica B: Condensed Matter, 2000, 284-288, 1561-1562.	1.3	1
129	Magnetotransport in Sr ₂ RuO ₄ . Physica B: Condensed Matter, 2000, 284-288, 1972-1973.	1.3	1
130	Ferromagnetism in the Anderson lattice model with the Falicov-Kimball interaction. Europhysics Letters, 2001, 56, 126-131.	0.7	1
131	THERMOPOWER OF THE LAYERED MULTI-BAND SUPERCONDUCTOR Sr ₂ RuO ₄ . International Journal of Modern Physics B, 2003, 17, 668-673.	1.0	1
132	Is the nature of itinerant ferromagnetism playing a role in the competition between spin polarization and singlet pair correlations?. Journal of Physics Condensed Matter, 2009, 21, 254203.	0.7	1
133	Tuning nodal line semimetals in trilayered systems. European Physical Journal: Special Topics, 2019, 228, 643-657.	1.2	1
134	Effects of geometry on spin-orbit Kramers states in semiconducting nanorings. Europhysics Letters, 2019, 127, 30001.	0.7	1
135	Engineering Topological Nodal Line Semimetals in Rashba Spin-Orbit Coupled Atomic Chains. Condensed Matter, 2019, 4, 25.	0.8	1
136	Suppression of the orbital magnetic moment driven by electronic correlations in $Sr_{4-x}O_{10}$. Physical Review B, 2019, 100, .	1.1	1
137	Normal State Properties of Sr ₂ RuO ₄ . Lecture Notes in Physics, 2002, , 91-107.	0.3	1
138	Odd-frequency pairing in a nonunitary p -wave superconductor with multiple Majorana fermions. Physical Review B, 2022, 105, .	1.1	1
139	On the pseudospin symmetry in the one-dimensional Hubbard model. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 240, 91-94.	0.9	0
140	Spin correlations in Sr ₂ RuO ₄ . Physica B: Condensed Matter, 1999, 259-261, 936-937.	1.3	0
141	Quantum criticality in Sr ₂ RuO ₄ . Physica B: Condensed Matter, 2000, 284-288, 1311-1312.	1.3	0
142	Role of depaired electrons in superconducting ferromagnets. Physica C: Superconductivity and Its Applications, 2004, 408-410, 396-397.	0.6	0
143	Evolution of density of states for Fulde-Ferrell-type superconductors. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1097-E1098.	1.0	0
144	Superconductivity and ferromagnetism: mechanisms of interaction and coexistence in a two-band model. AIP Conference Proceedings, 2005, , .	0.3	0

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145	Spin-orbital correlations for systems in configuration. Physica B: Condensed Matter, 2006, 378-380, 1077-1078.	1.3	0
146	General conditions for coexisting itinerant ferromagnetism and singlet superconductivity. Journal of Physics and Chemistry of Solids, 2006, 67, 157-159.	1.9	0
147	Jahn-Teller coupling in Ca-based layered ruthenates. AIP Conference Proceedings, 2007, , .	0.3	0
148	Field tunable spin/orbital correlations in Ca-based ruthenates. Physica Status Solidi (B): Basic Research, 2007, 244, 2322-2326.	0.7	0
149	Bilayer junction with chiral p-wave superconductor and itinerant ferromagnet: Role of distinct mechanisms for the generation of spin imbalance. Journal of Physics: Conference Series, 2009, 150, 052040.	0.3	0
150	Exact diagonalization scheme for the degenerate two-orbital Hubbard model on a ring. Journal of Physics: Conference Series, 2009, 150, 042020.	0.3	0
151	Phase Diagram for Mixed-Parity Superconductors. Journal of Superconductivity and Novel Magnetism, 2011, 24, 923-925.	0.8	0
152	Phase-Coherent Control of Interface Magnetization and Spin-Charge Currents in Topological Superconducting Junctions: Interface Magnetization and Currents in Topological Junctions. , 2017, , .		0
153	Spin-Orbital-Lattice Physics in Ca-Based Ruthenates. NATO Science for Peace and Security Series B: Physics and Biophysics, 2008, , 67-84.	0.2	0
154	Spin and charge transport in ferromagnet-superconductor-ferromagnet heterostructures: Stoner versus spin mass mismatch mechanism. Physical Review B, 2022, 105, .	1.1	0
155	Guiding antiferromagnetic transitions in CaRuO_4 . Scientific Reports, 2022, 12, .	1.6	0