Zurab Guguchia

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

104 papers 1,647 citations 22 h-index g-index

115 2,599 ext. papers ext. citations 5.8 avg, IF L-index

#	Paper	IF	Citations
104	Time-reversal symmetry-breaking charge order in a kagome superconductor <i>Nature</i> , 2022 , 602, 245-25	6 50.4	10
103	Microscopic evidence for anisotropic multigap superconductivity in the CsV3Sb5 kagome superconductor. <i>Npj Quantum Materials</i> , 2022 , 7,	5	3
102	Signatures of Weyl Fermion Annihilation in a Correlated Kagome Magnet <i>Physical Review Letters</i> , 2021 , 127, 256403	7.4	3
101	Unconventional Pressure Dependence of the Superfluid Density in the Nodeless Topological Superconductor ⊕dBi_{2}. <i>Physical Review Letters</i> , 2021 , 127, 217002	7.4	2
100	Coexistence of structural and magnetic phases in van der Waals magnet CrI. <i>Nature Communications</i> , 2021 , 12, 6265	17.4	4
99	Nodeless kagome superconductivity in LaRu3Si2. <i>Physical Review Materials</i> , 2021 , 5,	3.2	9
98	Split superconducting and time-reversal symmetry-breaking transitions in Sr2RuO4 under stress. <i>Nature Physics</i> , 2021 , 17, 748-754	16.2	29
97	Probing the superconducting gap structure in the noncentrosymmetric topological superconductor ZrRuAs. <i>Physical Review B</i> , 2021 , 103,	3.3	2
96	Multiple quantum phase transitions of different nature in the topological kagome magnet Co3Sn2InxS2. <i>Npj Quantum Materials</i> , 2021 , 6,	5	2
95	Unconventional chiral charge order in kagome superconductor KVSb. <i>Nature Materials</i> , 2021 , 20, 1353-7	1 <u>3</u> 57	86
94	Intrinsic nature of chiral charge order in the kagome superconductor RbV3Sb5. <i>Physical Review B</i> , 2021 , 104,	3.3	22
93	Cation Distributions and Magnetic Properties of Ferrispinel MgFeMnO. <i>Inorganic Chemistry</i> , 2020 , 59, 17970-17980	5.1	O
92	Magnetic phase boundary of BaVS3 clarified with high-pressure ⊞SR. <i>Physical Review B</i> , 2020 , 101,	3.3	3
91	Penetration depth and gap structure in the antiperovskite oxide superconductor Sr3\square\squareSnO revealed by \square\s	3.3	2
90	Enhanced anomalous Hall effect in the magnetic topological semimetal Co3Sn2\(\mathbb{Z}\)InxS2. <i>Physical Review B</i> , 2020 , 101,	3.3	13
89	Unconventional Magnetism in Layered Transition Metal Dichalcogenides. <i>Condensed Matter</i> , 2020 , 5, 42	1.8	1
88	Strong- to weak-coupling superconductivity in high-Tc bismuthates: Revisiting the phase diagram via BR. <i>Physical Review B</i> , 2020 , 101,	3.3	1

(2019-2020)

87	Tunable anomalous Hall conductivity through volume-wise magnetic competition in a topological kagome magnet. <i>Nature Communications</i> , 2020 , 11, 559	17.4	47
86	Near-ideal molecule-based Haldane spin chain. <i>Physical Review Research</i> , 2020 , 2,	3.9	1
85	Long-range magnetic order in the \${tilde S}=1/2\$ triangular lattice antiferromagnet KCeS\$_2\$. <i>SciPost Physics</i> , 2020 , 9,	6.1	7
84	The Unconventional Copper Oxide Superconductor with Conventional Constitution. <i>Journal of Superconductivity and Novel Magnetism</i> , 2020 , 33, 81-85	1.5	2
83	Many-Body Resonance in a Correlated Topological Kagome Antiferromagnet. <i>Physical Review Letters</i> , 2020 , 125, 046401	7.4	12
82	Time-reversal invariant and fully gapped unconventional superconducting state in the bulk of the topological compound Nb0.25Bi2Se3. <i>Physical Review B</i> , 2020 , 102,	3.3	2
81	Magnetism and ion diffusion in honeycomb layered oxide[[Formula: see text]. <i>Scientific Reports</i> , 2020 , 10, 18305	4.9	8
80	Spin-orbit quantum impurity in a topological magnet. <i>Nature Communications</i> , 2020 , 11, 4415	17.4	20
79	Using Uniaxial Stress to Probe the Relationship between Competing Superconducting States in a Cuprate with Spin-stripe Order. <i>Physical Review Letters</i> , 2020 , 125, 097005	7.4	9
78	Pressure Induced Topological Quantum Phase Transition in Weyl Semimetal Td-MoTe2. <i>Journal of the Physical Society of Japan</i> , 2020 , 89, 094707	1.5	1
77	Short-range magnetic interactions and spin-glass behavior in the quasi-two-dimensional nickelate Pr4Ni3O8. <i>Physical Review B</i> , 2020 , 102,	3.3	8
76	Nodeless superconductivity and its evolution with pressure in the layered dirac semimetal 2M-WS2. <i>Npj Quantum Materials</i> , 2019 , 4,	5	10
75	Superconductivity in a unique type of copper oxide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 12156-12160	11.5	51
74	Nodeless superconductivity and preserved time-reversal symmetry in the noncentrosymmetric Mo3P superconductor. <i>Physical Review B</i> , 2019 , 99,	3.3	14
73	BR and magnetometry study of the type-I superconductor BeAu. <i>Physical Review B</i> , 2019 , 99,	3.3	16
72	Ba(Zn,Co)2As2: A diluted ferromagnetic semiconductor with n-type carriers and isostructural to 122 iron-based superconductors. <i>Physical Review B</i> , 2019 , 99,	3.3	12
71	Magnetic phase diagram of KCrO clarified by high-pressure muon spin spectroscopy. <i>Scientific Reports</i> , 2019 , 9, 1141	4.9	6
70	Magnetic-Field Control of Topological Electronic Response near Room Temperature in Correlated Kagome Magnets. <i>Physical Review Letters</i> , 2019 , 123, 196604	7.4	12

69	Probing the quantum phase transition in Mott insulator BaCoS2 tuned by pressure and Ni substitution. <i>Physical Review Materials</i> , 2019 , 3,	3.2	4
68	Negative flat band magnetism in a spinBrbit-coupled correlated kagome magnet. <i>Nature Physics</i> , 2019 , 15, 443-448	16.2	132
67	Reply to Yamamoto: A cuprate superconductor with unconventional features. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 18166-18167	11.5	1
66	Superconducting order parameter of the nodal-line semimetal NaAlSi. APL Materials, 2019, 7, 121103	5.7	8
65	Intertwined magnetic, structural, and electronic transitions in V2O3. <i>Physical Review B</i> , 2019 , 100,	3.3	4
64	Unconventional scaling of the superfluid density with the critical temperature in transition metal dichalcogenides. <i>Science Advances</i> , 2019 , 5, eaav8465	14.3	9
63	Magnetic tricritical point and nematicity in FeSe under pressure. <i>Physical Review B</i> , 2018 , 97,	3.3	11
62	Disentangling superconducting and magnetic orders in NaFe1NixAs using muon spin rotation. <i>Physical Review B</i> , 2018 , 97,	3.3	3
61	⊞SR Study of K2Cr8O16 Under Hydrostatic Pressure 2018 ,		1
60	Magnetism in semiconducting molybdenum dichalcogenides. <i>Science Advances</i> , 2018 , 4, eaat3672	14.3	56
59	Phase separation at the dimer-superconductor transition in Ir1\(\text{IRhxTe2}. \) Physical Review B, 2018 , 98,	3.3	4
58	Absence of local fluctuating dimers in superconducting Ir1⊠(Pt,Rh)xTe2. <i>Physical Review B</i> , 2018 , 97,	3.3	7
57	Magnetic states of MnP: muon-spin rotation studies. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 164	10:08	9
56	Ground state selection under pressure in the quantum pyrochlore magnet YbTiO. <i>Nature Communications</i> , 2017 , 8, 14810	17.4	16
55	Signatures of the topological s superconducting order parameter in the type-II Weyl semimetal T -MoTe. <i>Nature Communications</i> , 2017 , 8, 1082	17.4	62
54	Local Orthorhombicity in the Magnetic C_{4} Phase of the Hole-Doped Iron-Arsenide Superconductor Sr_{1-x}Na_{x}Fe_{2}As_{2}. <i>Physical Review Letters</i> , 2017 , 119, 187001	7.4	18
53	Two-gap superconductivity in Mo8Ga41 and its evolution upon vanadium substitution. <i>Physical Review B</i> , 2017 , 96,	3.3	20
52	Complementary Response of Static Spin-Stripe Order and Superconductivity to Nonmagnetic Impurities in Cuprates. <i>Physical Review Letters</i> , 2017 , 119, 087002	7.4	5

(2016-2017)

51	Evidence for strong lattice effects as revealed from huge unconventional oxygen isotope effects on the pseudogap temperature in La2\subsetence SrxCuO4. <i>Physical Review B</i> , 2017 , 95,	3.3	16	
50	Pressure tuning of structure, superconductivity, and novel magnetic order in the Ce-underdoped electron-doped cuprate T? B r1.3\(\text{\text{B}}La0.7\(\text{CexCuO4} \) (x=0.1). <i>Physical Review B</i> , 2017 , 96,	3.3	6	
49	Pressure-induced magnetic order in FeSe: A muon spin rotation study. <i>Physical Review B</i> , 2017 , 95,	3.3	19	
48	Hydrostatic pressure effects on the static magnetism in Eu(FeCo)As. <i>Scientific Reports</i> , 2017 , 7, 3532	4.9	6	
47	A low-background pistonBylinder-type hybrid high pressure cell for muon-spin rotation/relaxation experiments. <i>High Pressure Research</i> , 2017 , 37, 449-464	1.6	15	
46	Unexpected magnetism at high temperature and novel magneto-dielectric-elastic coupling in EuTiO3: A critical review. <i>Thin Solid Films</i> , 2017 , 643, 3-6	2.2	6	
45	Growth and structural characterization of large superconducting crystals of La2\(\mathbb{L}\)Ca1+xCu2O6. Physical Review Materials, 2017, 1,	3.2	2	
44	Influence of hydrostatic pressure on the bulk magnetic properties of Eu2Ir2O7. <i>Physical Review B</i> , 2016 , 93,	3.3	13	
43	Coexistence of low-moment magnetism and superconductivity in tetragonal FeS and suppression of Tc under pressure. <i>Physical Review B</i> , 2016 , 93,	3.3	25	
42	High-pressure magnetic state of MnP probed by means of muon-spin rotation. <i>Physical Review B</i> , 2016 , 93,	3.3	20	
41	Magnetic ordering in the ultrapure site-diluted spin chain materials SrCu1⊠NixO2. <i>Physical Review B</i> , 2016 , 93,	3.3	6	
40	Probing the pairing symmetry in the over-doped Fe-based superconductor Ba0.35Rb0.65Fe2As2 as a function of hydrostatic pressure. <i>Physical Review B</i> , 2016 , 93,	3.3	10	
39	Proximity-induced superconductivity within the insulating (Li0.84Fe0.16)OH layers in (Li0.84Fe0.16)OHFe0.98Se. <i>Physical Review B</i> , 2016 , 93,	3.3	25	
38	Effect of disorder on a pressure-induced z=1 magnetic quantum phase transition. <i>Physical Review B</i> , 2016 , 94,	3.3	3	
37	High pressure research using muons at the Paul Scherrer Institute. High Pressure Research, 2016, 36, 140-	-16 6	51	
36	Field-induced transition of the magnetic ground state from A-type antiferromagnetic to ferromagnetic order in CsCo2Se2. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 276001	1.8	5	
35	Phase diagram of Eu magnetic ordering in Sn-flux-grown Eu(Fe1\(\text{IDCox} \))2As2 single crystals. <i>Physical Review B</i> , 2016 , 94,	3.3	17	
34	Complexity in the structural and magnetic properties of almost multiferroic EuTiO3. <i>Physical Review B</i> , 2016 , 94,	3.3	5	

33	Cooperative coupling of static magnetism and bulk superconductivity in the stripe phase of La2\(\text{B}\) BaxCuO4: Pressure- and doping-dependent studies. <i>Physical Review B</i> , 2016 , 94,	3.3	8
32	New Fluoride-arsenide Diluted Magnetic Semiconductor (Ba,K)F(Zn,Mn)As with Independent Spin and Charge Doping. <i>Scientific Reports</i> , 2016 , 6, 36578	4.9	14
31	Volume-wise destruction of the antiferromagnetic Mott insulating state through quantum tuning. <i>Nature Communications</i> , 2016 , 7, 12519	17.4	22
30	Ferromagnetic Quantum Critical Point Avoided by the Appearance of Another Magnetic Phase in LaCrGe_{3} under Pressure. <i>Physical Review Letters</i> , 2016 , 117, 037207	7.4	23
29	Direct evidence for a pressure-induced nodal superconducting gap in the Ba0.65Rb0.35Fe2As2 superconductor. <i>Nature Communications</i> , 2015 , 6, 8863	17.4	28
28	Oxygen isotope effects on lattice properties of La2\(\mathbb{B}\)BaxCuO4 (x=1/8). <i>Physical Review B</i> , 2015 , 92,	3.3	1
27	Strong enhancement of s-wave superconductivity near a quantum critical point of Ca3Ir4Sn13. <i>Physical Review B</i> , 2015 , 92,	3.3	18
26	Mutual Independence of Critical Temperature and Superfluid Density under Pressure in Optimally Electron-Doped Superconducting LaFeAsO(1-x)F(x). <i>Physical Review Letters</i> , 2015 , 114, 247004	7.4	17
25	Pressure-induced electronic phase separation of magnetism and superconductivity in CrAs. <i>Scientific Reports</i> , 2015 , 5, 13788	4.9	34
24	Tiny cause with huge impact: polar instability through strong magneto-electric-elastic coupling in bulk EuTiO3. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 262201	1.8	9
23	Probing the multi gap behavior within 1112 and 1221 amilies of iron based superconductors: the muon-spin rotation studies. <i>Superconductor Science and Technology</i> , 2015 , 28, 034003	3.1	14
22	Superconductivity in a new layered bismuth oxyselenide: LaO(0.5)F(0.5)BiSe\(\textit{Journal of Physics}\) Condensed Matter, 2014 , 26, 215702	1.8	55
21	Lattice and polarizability mediated spin activity in EuTiO3. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 022202	1.8	21
20	Effect of pressure-driven local structural rearrangement on the superconducting properties of FeSe0.5Te0.5. <i>Physical Review B</i> , 2014 , 90,	3.3	7
19	Spin-lattice coupling induced weak dynamical magnetism in EuTiO3 at high temperatures. <i>Physical Review B</i> , 2014 , 90,	3.3	19
18	Negative oxygen isotope effect on the static spin stripe order in superconducting La(2-x)Ba(x)CuO(4) (x=1/8) observed by muon-spin rotation. <i>Physical Review Letters</i> , 2014 , 113, 057002	7.4	10
17	Nonlinear pressure dependence of TN in almost multiferroic EuTiO3. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 376002	1.8	9
16	The low temperature magnetic phase diagram of EuxSr1⊠TiO3. <i>European Physical Journal B</i> , 2013 , 86, 1	1.2	12

LIST OF PUBLICATIONS

15	Muon-Spin Rotation and Magnetization Studies of Chemical and Hydrostatic Pressure Effects in EuFe2(As1 \square P x)2. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013 , 26, 285-295	1.5	14
14	Effect of pressure on the Cu and Pr magnetism in Nd1⊠PrxBa2Cu3O7IInvestigated by muon spin rotation. <i>Physical Review B</i> , 2013 , 87,	3.3	6
13	Tuning the static spin-stripe phase and superconductivity in La2 \square BaxCuO4 (x = 1/8) by hydrostatic pressure. <i>New Journal of Physics</i> , 2013 , 15, 093005	2.9	18
12	Magnetic structure of superconducting Eu(Fe0.82Co0.18)2As2 as revealed by single-crystal neutron diffraction. <i>Physical Review B</i> , 2013 , 88,	3.3	29
11	Tuning the structural instability of SrTiO3 by Eu doping: The phase diagram of Sr1⊠EuxTiO3. <i>Physical Review B</i> , 2012 , 85,	3.3	31
10	Muon Spin Rotation Study of the Intercalated Graphite Superconductor CaC6 at Low Temperatures. Journal of Superconductivity and Novel Magnetism, 2012, 25, 159-163	1.5	1
9	Superconductivity and magnetism in RbxFe2JSe2: Impact of thermal treatment on mesoscopic phase separation. <i>Physical Review B</i> , 2012 , 86,	3.3	23
8	Magnetic field enhanced structural instability in EuTiO3. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 492201	1.8	25
7	Hybrid paramagnon phonon modes at elevated temperatures in EuTiO3. <i>New Journal of Physics</i> , 2012 , 14, 093013	2.9	18
6	Lattice dynamics and anomalous softening in the YbFe4Sb12 skutterudite. <i>Physical Review B</i> , 2011 , 84,	3.3	9
5	BR investigation of magnetism and magnetoelectric coupling in Cu2OSeO3. <i>Physical Review B</i> , 2011 , 84,	3.3	22
4	Anisotropic magnetic order of the Eu sublattice in single crystals of EuFe2\(\mathbb{L}\)CoxAs2 (x=0,0.2) studied by means of magnetization and magnetic torque. <i>Physical Review B</i> , 2011 , 84,	3.3	23
3	Strong coupling between Eu2+ spins and Fe2As2 layers in EuFe1.9Co0.1As2 observed with NMR. <i>Physical Review B</i> , 2011 , 83,	3.3	21
2	Muon-spin rotation measurements of the magnetic penetration depth in the iron-based superconductor Ba1\(\text{Re}\) RbxFe2As2. <i>Physical Review B</i> , 2011 , 84,	3.3	18
1	Group-9 Transition-Metal Suboxides Adopting the Filled-Ti2Ni Structure: A Class of Superconductors Exhibiting Exceptionally High Upper Critical Fields. <i>Chemistry of Materials</i> ,	9.6	2