

# Jose Rodriguez-Rivera

## List of Publications by Year in descending order

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Version: 2024-02-01

78  
papers

3,514  
citations

201658

27  
h-index

133244

59  
g-index

80  
all docs

80  
docs citations

80  
times ranked

3777  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fractionalized excitations in the spin-liquid state of a kagome-lattice antiferromagnet. Nature, 2012, 492, 406-410.	27.8	873
2	New kagome prototype materials: discovery of $\text{KV}_3$ and $\text{CsV}_3$ , and Physical Review Materials, 2019, 3, .	2.4	398
3	From $(\text{Fe},0)$ magnetic order to superconductivity with $(\text{Fe},\text{Fe})$ magnetic resonance in $\text{Fe}_{1.02}\text{Te}_{1-x}\text{Se}_x$ . Nature Materials, 2010, 9, 718-720.	27.5	248
4	Role of random electric fields in relaxors. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 1754-1759.	7.1	129
5	Spin-Orbital Short-Range Order on a Honeycomb-Based Lattice. Science, 2012, 336, 559-563.	12.6	116
6	Physical realization of a quantum spin liquid based on a complex frustration mechanism. Nature Physics, 2016, 12, 942-949.	16.7	115
7	Role of Nanoscale Precipitates on the Enhanced Magnetostriction of Heat-Treated Galfenol ( $\text{Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 502 Td}$ ) Alloys. Physical Review Letters, 2009, 102, 127201.	7.8	101
8	Correlated impurities and intrinsic spin-liquid physics in the kagome material herbertsmithite. Physical Review B, 2016, 94, .	3.2	100
9	MACS—a new high intensity cold neutron spectrometer at NIST. Measurement Science and Technology, 2008, 19, 034023.	2.6	98
10	Neutron Scattering Studies of spin excitations in hole-doped $\text{Ba}_{0.67}\text{K}_{0.33}\text{Fe}_2\text{As}_2$ superconductor. Scientific Reports, 2011, 1, 115.	3.3	72
11	Kitaev interactions in the Co honeycomb antiferromagnets $\text{Na}_3$ and Physical Review B, 2020, 102, .	3.2	70
12	Continuum of quantum fluctuations in a three-dimensional $\text{S}^1$ Heisenberg magnet. Nature Physics, 2019, 15, 54-59.	16.7	62
13	Molecular Quantum Magnetism in $\text{LiZn}_2\text{O}_8$ Physical Review Letters, 2014, 112, 027202.	7.8	59
14	Interstitial iron tuning of the spin fluctuations in the nonsuperconducting parent phase $\text{Fe}_1\text{Te}_x\text{Fe}_{1-x}$ Physical Review B, 2011, 84, .	3.2	57
15	Evidence for a three-dimensional quantum spin liquid in $\text{PbCuTe}_2\text{O}_6$ . Nature Communications, 2020, 11, 2348.	12.8	53
16	Friedel-Like Oscillations from Interstitial Iron in Superconducting $\text{Fe}_1\text{Te}_x\text{Fe}_{1-x}$ Physical Review Letters, 2012, 108, 107002.	7.8	51
17	Short-Range Correlations in the Magnetic Ground State of $\text{Na}_3\text{O}_8$ Physical Review Letters, 2014, 112, 027202.	7.8	51
18	Magnetic and structural properties near the Lifshitz point in $\text{Fe}_1\text{Te}_x\text{Fe}_{1-x}$ Physical Review B, 2013, 88, .	3.2	48

#	ARTICLE	IF	CITATIONS
19	Weyl-mediated helical magnetism in NdAlSi. Nature Materials, 2021, 20, 1650-1656.	27.5	48
20	Single-ion properties of the antiferromagnetic pyrochlores	3.2	42
21	Static and dynamic short-range order in a frustrated magnet with exchange disorder. Physical Review B, 2014,	3.2	40
22	Multi-Mesoscale Magnetism in	7.8	34
23	Screened moments and extrinsic in-gap states in samarium hexaboride. Nature Communications, 2018, 9, 1539.	12.8	31
24	Magnetic field effect on static antiferromagnetic order and spin excitations in the underdoped iron arsenide superconductor BaFe	3.2	30
25	Soft striped magnetic fluctuations competing with superconductivity in	7.8	29
26	Disorder from order among anisotropic next-nearest-neighbor Ising spin chains in	3.2	28
27	Solitary Magnons in the	7.8	25
28	Field-induced quantum fluctuations in the heavy fermion superconductor CeCu2Ge2. Scientific Reports, 2011, 1, 117.	3.3	24
29	Intertwined density waves in a metallic nickelate. Nature Communications, 2020, 11, 6003.	12.8	24
30	Antiferromagnetic and Orbital Ordering on a Diamond Lattice Near Quantum Criticality. Physical Review X, 2016, 6, .	8.9	21
31	Magnetic Hamiltonian and phase diagram of the quantum spin liquid	3.2	20
32	Incommensurate Magnetism in FeAs Strips: Neutron Scattering from	7.8	19
33	Single to Multiquasiparticle Excitations in the Itinerant Helical Magnet CeRhIn5. Physical Review Letters, 2015, 114, 247005.	7.8	18
34	Magnetic ordering induced by interladder coupling in the spin- two-leg ladder antiferromagnet	3.2	17
35	Neutron scattering investigation of proposed Kosterlitz-Thouless transitions in the triangular-lattice Ising antiferromagnet	3.2	16
36			

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37	Common origin of the two types of magnetic fluctuations in iron chalcogenides. Physical Review B, 2011, 84, .	3.2	15
38	Neutron transmission of single-crystal magnesium fluoride. Journal of Applied Crystallography, 2008, 41, 1003-1008.	4.5	14
39	Competing spin density wave, collinear, and helical magnetism in $\text{Fe}_2\text{Mn}_2\text{As}_2$ . Physical Review B, 2017, 95, .		
40	A wide angle neutron spin filter system using polarized $^3\text{He}$ . Physica B: Condensed Matter, 2011, 406, 2419-2423.	2.7	13
41	Holographic maps of quasiparticle interference. Nature Physics, 2016, 12, 1052-1056.	16.7	13
42	Anharmonic Magnon Excitations in Noncollinear and Charge-Ordered $\text{RbFeF}_6$ . Physical Review Letters, 2018, 121, 087201.	7.8	13
43	Wide-angle polarization analysis on the multi-axis crystal spectrometer for the study of collective and single particle dynamics of methanol at its prepeak. Physica B: Condensed Matter, 2019, 564, 166-171.	2.7	13
44	Wide Angle Polarization Analysis with Neutron Spin Filters. Physics Procedia, 2013, 42, 206-212.	1.2	12
45	From Ising Resonant Fluctuations to Static Uniaxial Order in Antiferromagnetic and Weakly Superconducting $\text{CeCoIn}_5$ .		

#	ARTICLE	IF	CITATIONS
55	Neutron scattering studies of short-range order, atomic displacements, and effective pair interactions in a null-matrix Ni <sub>0.5262</sub> Pt <sub>0.48</sub> crystal. <i>Physical Review B</i> , 2006, 74, .	3.2	8
56	Relaxing Kondo-screened Kramers doublets in $\text{CeRhSi}$ . <i>Physical Review B</i> , 2019, 99, .	3.2	8
57	Metastable antiphase boundary ordering in $\text{CaFe}_3\text{O}_4$ . <i>Physical Review B</i> , 2021, 104, .	3.2	8
58	From mean-field localized magnetism to itinerant spin fluctuations in the nonmetallic metal $\text{FeCrAs}$ . <i>Physical Review B</i> , 2018, 97, .	3.2	7
59	Low-energy magnons in the chiral ferrimagnet $\text{Cu}_2\text{OSeO}_3$ : A coarse-grained approach. <i>Physical Review B</i> , 2020, 101, .	3.2	6
60	Magnetic Bloch oscillations and domain wall dynamics in a near-Ising ferromagnetic chain. <i>Nature Communications</i> , 2022, 13, 2547.	12.8	6
61	Low-energy phonons and superconductivity in $\text{Sn}_{1-x}\text{Bi}_x$ . <i>Physical Review B</i> , 2015, 91, .	3.2	5
62	Quantum critical singularities in two-dimensional metallic XY ferromagnets. <i>Physical Review B</i> , 2018, 97, .	3.2	5
63	Signatures for spinons in the quantum spin liquid candidate $\text{Ca}_{10}\text{O}_{28}$ . <i>Physical Review B</i> , 2021, 103, .	3.2	5
64	From One to Two Magnon Excitations in the $\text{S}_2\text{CaCr}_2$ Magnet. <i>Physical Review Letters</i> , 2021, 126, 017201.	7.8	5
65	Local quantum phase transition in $\text{YFe}_2\text{Al}_{10}$ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 6995-6999.	7.1	5
66	Quantum critical fluctuations in the heavy fermion compound $\text{Ce}(\text{Ni}_{0.935}\text{Pd}_{0.065})_2\text{Ge}_2$ . <i>Journal of Physics Condensed Matter</i> , 2015, 27, 015602.	1.8	4
67	Quantum Magnetic Properties in Perovskite with Anderson Localized Artificial Spin $\frac{1}{2}$ . <i>Advanced Science</i> , 2018, 5, 1700978.	11.2	4
68	Monopolar and dipolar relaxation in spin ice $\text{Ho}_2\text{Ti}_2\text{O}_7$ . <i>Science Advances</i> , 2021, 7, .	10.3	4
69	Impurity effects on spin dynamics in magnetic and superconducting iron pnictides and chalcogenides. <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1600162.	1.5	3
70	Spin dynamics in the skyrmion-host lacunar spinel $\text{GaV}_4\text{S}_8$ . <i>Physical Review B</i> , 2021, 104, .	3.2	3
71	Absence of Long-Wavelength Nematic Fluctuations in $\text{LiFeAs}$ . <i>Journal of Superconductivity and Novel Magnetism</i> , 2016, 29, 3049-3051.	1.8	2
72	Modulated magnetism and anomalous electronic transport in $\text{Ce}_3\text{O}_2$ . <i>Physical Review B</i> , 2016, 94, .	3.2	2

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73	Gapped excitation in dense Kondo lattice CePtZn. Physical Review B, 2017, 95, .	3.2	2
74	Ungapped magnetic excitations beyond Hidden Order in URu <sub>2</sub> Si <sub>2</sub> . Philosophical Magazine, 2020, 100, 1282-1288.	1.6	1
75	Quantum critical behavior in the heavy Fermion single crystal Ce(Ni <sub>0.935</sub> Pd <sub>0.065</sub> ) <sub>2</sub> Ge <sub>2</sub> . Journal of Physics: Conference Series, 2011, 273, 012018.	0.4	0
76	Magneto-Polaron Formation and Field-Induced Effects with Dilute Doping in LaCo <sub>1-y</sub> Ni <sub>y</sub> O <sub>3</sub> . Journal of Superconductivity and Novel Magnetism, 2013, 26, 2627-2632.	1.8	0
77	Magnetic order and instability in newly synthesized CoSeAs marcasite. Physical Review Research, 2020, 2, .	3.6	0
78	Spin dynamics in the square-lattice cupola system $\text{BaCu}_4\text{TiO}_{12}$ . Physical Review B, 2022, 105, .	3.2	0