

# Jose Rodriguez-Rivera

## List of Publications by Year in descending order

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Version: 2024-02-01

78  
papers

3,514  
citations

201385

27  
h-index

133063

59  
g-index

80  
all docs

80  
docs citations

80  
times ranked

3777  
citing authors



#	ARTICLE	IF	CITATIONS
19	Magnetic order and instability in newly synthesized CoSeAs marcasite. <i>Physical Review Research</i> , 2020, 2, .	1.3	0
20	Spin-liquid-like state in pure and Mn-doped $\text{TbInO}_3$ with a nearly triangular lattice. <i>Physical Review B</i> , 2019, 100, .	1.1	10
21	Wide-angle polarization analysis on the multi-axis crystal spectrometer for the study of collective and single particle dynamics of methanol at its prepeak. <i>Physica B: Condensed Matter</i> , 2019, 564, 166-171.	1.3	13
22	Relaxing Kondo-screened Kramers doublets in $\text{CeRhSi}$ . <i>Physical Review B</i> , 2019, 99, .	1.1	8
23	Signatures for spinons in the quantum spin liquid candidate $\text{Ca}_{10}\text{O}_{28}$ . <i>Physical Review B</i> , 2019, 100, .	1.1	5
24	Continuum of quantum fluctuations in a three-dimensional $\text{S=1}$ Heisenberg magnet. <i>Nature Physics</i> , 2019, 15, 54-59.	6.5	62
25	New kagome prototype materials: discovery of $\text{KV}_3$ , and $\text{CsV}_3$ . <i>Physical Review Materials</i> , 2018, 3, .	0.9	398
26	Quantum critical singularities in two-dimensional metallic XY ferromagnets. <i>Physical Review B</i> , 2018, 97, .	1.1	5
27	Multi- $q$ Mesoscale Magnetism in $\text{CeAuSb}$ . <i>Physical Review Letters</i> , 2018, 120, 097201.	2.9	34
28	Quantum Magnetic Properties in Perovskite with Anderson Localized Artificial Spin $\frac{1}{2}$ . <i>Advanced Science</i> , 2018, 5, 1700978.	5.6	4
29	Screened moments and extrinsic in-gap states in samarium hexaboride. <i>Nature Communications</i> , 2018, 9, 1539.	5.8	31
30	Doping-induced redistribution of magnetic spectral weight in the substituted hexaborides $\text{Ce}_{1-x}\text{La}_x\text{B}_6$ and $\text{Ce}_{1-x}\text{Nd}_x\text{B}_6$ . <i>Physical Review B</i> , 2018, 97, .	1.1	11
31	From Ising Resonant Fluctuations to Static Uniaxial Order in Antiferromagnetic and Weakly Superconducting $\text{CeCo}$ . <i>Physical Review B</i> , 2018, 97, .	1.1	11

#	ARTICLE	IF	CITATIONS
37	Single spin properties of the $\langle \mathbf{m} \rangle$ in antiferromagnetic pyrochlores	1.1	42
38	Competing spin density wave, collinear, and helical magnetism in $\text{Fe}_2\text{P}$	1.1	11
39	Magnetic Hamiltonian and phase diagram of the quantum spin liquid $\text{Ca}_{10}\text{O}_{28}$	1.1	20
40	Orbital Spins in the $\text{CaFe}_2\text{O}_7$ Antiferromagnet	2.9	11
41	Antiferromagnetic and Orbital Ordering on a Diamond Lattice Near Quantum Criticality.	2.8	21
42	Absence of Long-Wavelength Nematic Fluctuations in $\text{LiFeAs}$ .	0.8	2
43	Modulated magnetism and anomalous electronic transport in $\text{Ce}_3\text{O}_2$	1.1	2
44	Correlated impurities and intrinsic spin-liquid physics in the kagome material herbertsmithite.	1.1	100
45	Holographic maps of quasiparticle interference.	6.5	13
46	Static and dynamic short-range order in a frustrated magnet with exchange disorder.	1.1	24
47	Short-range Correlations in the Magnetic Ground State of $\text{CaFe}_2\text{O}_7$	2.9	25
48	Physical realization of a quantum spin liquid based on a complex frustration mechanism.	6.5	115
49	Recent advancements of wide-angle polarization analysis with $^3\text{He}$ neutron spin filters.	0.3	10
50	Low-energy phonons and superconductivity in $\text{Sn}_2\text{O}_7$	1.1	0.8
51	Single to Multi-quasiparticle Excitations in the Itinerant Helical Magnet $\text{CeRhIn}_5$ .	2.9	18
52	Quantum critical fluctuations in the heavy fermion compound $\text{Ce}(\text{Ni}_{0.935}\text{Pd}_{0.065})_2\text{Ge}_2$ .	0.7	4
53	Disorder from order among anisotropic next-nearest-neighbor Ising spin chains in $\text{SrHo}_2\text{O}_8$	1.1	28
54	Short-range Correlations in the Magnetic Ground State of $\text{Na}_4\text{O}_8$	2.9	11

#	ARTICLE	IF	CITATIONS
55	Soft striped magnetic fluctuations competing with superconductivity in $\text{FeAs}$ . Physical Review B, 2014, 90, .	2.9	129
56	Molecular Quantum Magnetism in $\text{LiZnO}_8$ . Physical Review Letters, 2014, 112, 027202.	3.8	89
57	Role of random electric fields in relaxors. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 1754-1759.	3.3	129
58	Magnetic ordering induced by interladder coupling in the spin-two-leg ladder antiferromagnet $\text{Ca}_2\text{CoNb}_2\text{O}_{10}$ . Physical Review B, 2014, 89, 080407.	1.1	17
59	Magnetic field effect on static antiferromagnetic order in the underdoped iron arsenide superconductor $\text{BaFe}_2\text{As}_2$ . Physical Review Letters, 2012, 108, 107009.	1.1	40
60	Magneto-Polaron Formation and Field-Induced Effects with Dilute Doping in $\text{LaCo}_{1-x}\text{Ni}_x\text{O}_3$ . Journal of Superconductivity and Novel Magnetism, 2013, 26, 2627-2632.	0.8	0
61	Magnetic and structural properties near the Lifshitz point in $\text{Fe}_{1-x}\text{Co}_x\text{Te}$ . Physical Review B, 2013, 88, .	1.1	48
62	Wide Angle Polarization Analysis with Neutron Spin Filters. Physics Procedia, 2013, 42, 206-212.	1.2	12
63	Fractionalized excitations in the spin-liquid state of a kagome-lattice antiferromagnet. Nature, 2012, 492, 406-410.	13.7	873
64	Spin-Orbital Short-Range Order on a Honeycomb-Based Lattice. Science, 2012, 336, 559-563.	6.0	116
65	Friedel-Like Oscillations from Interstitial Iron in Superconducting $\text{Fe}_{1-x}\text{Co}_x\text{Te}$ . Physical Review Letters, 2012, 108, 107009.	2.9	51
66	Magnetic field effect on static antiferromagnetic order and spin excitations in the underdoped iron arsenide superconductor $\text{BaFe}_2\text{As}_2$ . Physical Review Letters, 2012, 108, 107009.	1.1	30
67	Field-induced quantum fluctuations in the heavy fermion superconductor $\text{CeCu}_2\text{Ge}_2$ . Scientific Reports, 2011, 1, 117.	1.6	24
68	Quantum critical behavior in the heavy Fermion single crystal $\text{Ce}(\text{Ni}_{0.935}\text{Pd}_{0.065})_2\text{Ge}_2$ . Journal of Physics: Conference Series, 2011, 273, 012018.	0.3	0
69	A wide angle neutron spin filter system using polarized $^3\text{He}$ . Physica B: Condensed Matter, 2011, 406, 2419-2423.	1.3	13
70	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.	1.6	72
71	Incommensurate Magnetism in $\text{FeAs}$ Strips: Neutron Scattering from $\text{CaFe}_4\text{As}$ . Physical Review Letters, 2011, 106, 037201.	2.9	19
72	Interstitial iron tuning of the spin fluctuations in the nonsuperconducting parent phase $\text{Fe}_{1-x}\text{Co}_x\text{Te}$ . Physical Review B, 2011, 84, .	1.1	57

#	ARTICLE	IF	CITATIONS
73	Common origin of the two types of magnetic fluctuations in iron chalcogenides. Physical Review B, 2011, 84, .	1.1	15
74	From $(\Gamma, 0)$ magnetic order to superconductivity with $(\Gamma, \Gamma)$ magnetic resonance in $\text{Fe}_{1.02}\text{Te}_{1-x}\text{Se}_x$ . Nature Materials, 2010, 9, 718-720.	13.3	248
75	Role of Nanoscale Precipitates on the Enhanced Magnetostriction of Heat-Treated Galfenol ( $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" \rangle T_j \text{ ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 662 Td (display="in$ Alloys. Physical Review Letters, 2009, 102, 127201.	2.9	101
76	Neutron transmission of single-crystal magnesium fluoride. Journal of Applied Crystallography, 2008, 41, 1003-1008.	1.9	14
77	MACSâ€”a new high intensity cold neutron spectrometer at NIST. Measurement Science and Technology, 2008, 19, 034023.	1.4	98
78	Neutron scattering studies of short-range order, atomic displacements, and effective pair interactions in a null-matrix $\text{Ni}_{0.5262}\text{Pt}_{0.48}$ crystal. Physical Review B, 2006, 74, .	1.1	8