

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 |
|----|---|------|-----------|
| 1 | Fractionalized excitations in the spin-liquid state of a kagome-lattice antiferromagnet. Nature, 2012, 492, 406-410. | 13.7 | 873 |
| 2 | New kagome prototype materials: discovery of KV_3 and CsV_3 , and Physical Review Materials, 2019, 3, . | 0.9 | 398 |
| 3 | From $(\text{Fe},0)$ magnetic order to superconductivity with (Fe,Fe) magnetic resonance in $\text{Fe}_{1.02}\text{Te}_{1-x}\text{S}_x$. Nature Materials, 2010, 9, 718-720. | 13.3 | 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. | 3.3 | 129 |
| 5 | Spin-Orbital Short-Range Order on a Honeycomb-Based Lattice. Science, 2012, 336, 559-563. | 6.0 | 116 |
| 6 | Physical realization of a quantum spin liquid based on a complex frustration mechanism. Nature Physics, 2016, 12, 942-949. | 6.5 | 115 |
| 7 | Role of Nanoscale Precipitates on the Enhanced Magnetostriction of Heat-Treated Galfenol ($T_j \text{ ETQq1 } 1 \text{ 0.784314 rgBT /Overlock } 10 \text{ Tf } 50 \text{ 502 Td}$) Alloys. Physical Review Letters, 2009, 102, 127201. | 2.9 | 101 |
| 8 | Correlated impurities and intrinsic spin-liquid physics in the kagome material herbertsmithite. Physical Review B, 2016, 94, . | 1.1 | 100 |
| 9 | MACS—a new high intensity cold neutron spectrometer at NIST. Measurement Science and Technology, 2008, 19, 034023. | 1.4 | 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. | 1.6 | 72 |
| 11 | Kitaev interactions in the Co honeycomb antiferromagnets Na_3 and Physical Review B, 2020, 102, . | 1.1 | 70 |
| 12 | Continuum of quantum fluctuations in a three-dimensional S^1 Heisenberg magnet. Nature Physics, 2019, 15, 54-59. | 6.5 | 62 |
| 13 | Molecular Quantum Magnetism in LiZn_2 Physical Review Letters, 2014, 112, 027202. | 2.9 | 59 |
| 14 | Interstitial iron tuning of the spin fluctuations in the nonsuperconducting parent phase $\text{Fe}_1\text{Te}_x\text{S}_{1-x}$. Physical Review B, 2011, 84, . | 1.1 | 57 |
| 15 | Evidence for a three-dimensional quantum spin liquid in $\text{PbCuTe}_2\text{O}_6$. Nature Communications, 2020, 11, 2348. | 5.8 | 53 |
| 16 | Friedel-Like Oscillations from Interstitial Iron in Superconducting $\text{Fe}_1\text{Te}_x\text{S}_{1-x}$ Physical Review Letters, 2012, 108, 107002. | 2.9 | 51 |
| 17 | Short-Range Correlations in the Magnetic Ground State of Na_4 Physical Review Letters, 2014, 112, 047601. | 2.9 | 51 |
| 18 | Magnetic and structural properties near the Lifshitz point in $\text{Fe}_1\text{Te}_x\text{S}_{1-x}$. Physical Review B, 2013, 88, . | 1.1 | 48 |

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|----|--|------|-----------|
| 19 | Weyl-mediated helical magnetism in NdAlSi. Nature Materials, 2021, 20, 1650-1656. | 13.3 | 48 |
| 20 | Single-ion properties of the antiferromagnetic pyrochlores | 1.1 | 42 |
| 21 | Static and dynamic short-range order in a frustrated magnet with exchange disorder. Physical Review B, 2016, 93, . | 1.1 | 40 |
| 22 | Multi-Mesoscale Magnetism in | 2.9 | 34 |
| 23 | Screened moments and extrinsic in-gap states in samarium hexaboride. Nature Communications, 2018, 9, 1539. | 5.8 | 31 |
| 24 | Magnetic field effect on static antiferromagnetic order and spin excitations in the underdoped iron arsenide superconductor BaFe | 1.1 | 30 |
| 25 | Soft striped magnetic fluctuations competing with superconductivity in | 1.1 | 29 |
| 26 | Disorder from order among anisotropic next-nearest-neighbor Ising spin chains in | 1.1 | 28 |
| 27 | Solitary Magnons in the | 2.9 | 25 |
| 28 | Field-induced quantum fluctuations in the heavy fermion superconductor CeCu2Ge2. Scientific Reports, 2011, 1, 117. | 1.6 | 24 |
| 29 | Intertwined density waves in a metallic nickelate. Nature Communications, 2020, 11, 6003. | 5.8 | 24 |
| 30 | Antiferromagnetic and Orbital Ordering on a Diamond Lattice Near Quantum Criticality. Physical Review X, 2016, 6, . | 2.8 | 21 |
| 31 | Magnetic Hamiltonian and phase diagram of the quantum spin liquid | 1.1 | 20 |
| 32 | Incommensurate Magnetism in FeAs Strips: Neutron Scattering from | 2.9 | 19 |
| 33 | Single to Multiquasiparticle Excitations in the Itinerant Helical Magnet CeRhIn5. Physical Review Letters, 2015, 114, 247005. | 2.9 | 18 |
| 34 | Magnetic ordering induced by interladder coupling in the spin two-leg ladder antiferromagnet | 1.1 | 17 |
| 35 | Neutron scattering investigation of proposed Kosterlitz-Thouless transitions in the triangular-lattice Ising antiferromagnet | 1.1 | 16 |
| 36 | | | |

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|----|---|-----|-----------|
| 37 | Common origin of the two types of magnetic fluctuations in iron chalcogenides. Physical Review B, 2011, 84, . | 1.1 | 15 |
| 38 | Neutron transmission of single-crystal magnesium fluoride. Journal of Applied Crystallography, 2008, 41, 1003-1008. | 1.9 | 14 |
| 39 | Competing spin density wave, collinear, and helical magnetism in $\text{FeTe}_{1-x}\text{Se}_x$. Physical Review B, 2017, 95, . | | |
| 40 | A wide angle neutron spin filter system using polarized ^3He . Physica B: Condensed Matter, 2011, 406, 2419-2423. | 1.3 | 13 |
| 41 | Holographic maps of quasiparticle interference. Nature Physics, 2016, 12, 1052-1056. | 6.5 | 13 |
| 42 | Anharmonic Magnon Excitations in Noncollinear and Charge-Ordered RbFeF_6 . Physical Review Letters, 2018, 121, 087201. | 2.9 | 2 |
| 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. | 1.3 | 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 CeCoIn_5 . | | |

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|----|---|-----|-----------|
| 55 | Neutron scattering studies of short-range order, atomic displacements, and effective pair interactions in a null-matrix Ni _{0.5262} Pt _{0.48} crystal. <i>Physical Review B</i> , 2006, 74, . | 1.1 | 8 |
| 56 | Relaxing Kondo-screened Kramers doublets in CeRhSi . <i>Physical Review B</i> , 2019, 99, . | 1.1 | 8 |
| 57 | Metastable antiphase boundary ordering in CaFe_4O . <i>Physical Review B</i> , 2021, 104, . | 1.1 | 8 |
| 58 | From mean-field localized magnetism to itinerant spin fluctuations in the nonmetallic metal FeCrAs . <i>Physical Review B</i> , 2018, 97, . | 1.1 | 7 |
| 59 | Low-energy magnons in the chiral ferrimagnet Cu_2OSeO_3 : A coarse-grained approach. <i>Physical Review B</i> , 2020, 101, . | 1.1 | 6 |
| 60 | Magnetic Bloch oscillations and domain wall dynamics in a near-Ising ferromagnetic chain. <i>Nature Communications</i> , 2022, 13, 2547. | 5.8 | 6 |
| 61 | Low-energy phonons and superconductivity in $\text{Sn}_{1-x}\text{Pb}_x$. <i>Physical Review B</i> , 2015, 91, . | 1.1 | 5 |
| 62 | Quantum critical singularities in two-dimensional metallic XY ferromagnets. <i>Physical Review B</i> , 2018, 97, . | 1.1 | 5 |
| 63 | Signatures for spinons in the quantum spin liquid candidate $\text{Ca}_{10}\text{O}_{28}$. <i>Physical Review B</i> , 2021, 103, . | 1.1 | 5 |
| 64 | From One to Two Magnon Excitations in the S_2CaCr_2 Magnet. <i>Physical Review Letters</i> , 2021, 126, 017201. | 2.9 | 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. | 3.3 | 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. | 0.7 | 4 |
| 67 | Quantum Magnetic Properties in Perovskite with Anderson Localized Artificial Spin $\frac{1}{2}$. <i>Advanced Science</i> , 2018, 5, 1700978. | 5.6 | 4 |
| 68 | Monopolar and dipolar relaxation in spin ice $\text{Ho}_2\text{Ti}_2\text{O}_7$. <i>Science Advances</i> , 2021, 7, . | 4.7 | 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. | 0.7 | 3 |
| 70 | Spin dynamics in the skyrmion-host lacunar spinel GaV_4S_8 . <i>Physical Review B</i> , 2021, 104, . | 1.1 | 3 |
| 71 | Absence of Long-Wavelength Nematic Fluctuations in LiFeAs . <i>Journal of Superconductivity and Novel Magnetism</i> , 2016, 29, 3049-3051. | 0.8 | 2 |
| 72 | Modulated magnetism and anomalous electronic transport in Ce_3O_2 . <i>Physical Review B</i> , 2016, 94, . | 1.1 | 2 |

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|----|---|-----|-----------|
| 73 | Gapped excitation in dense Kondo lattice CePtZn. Physical Review B, 2017, 95, . | 1.1 | 2 |
| 74 | Ungapped magnetic excitations beyond Hidden Order in URu ₂ Si ₂ . Philosophical Magazine, 2020, 100, 1282-1288. | 0.7 | 1 |
| 75 | Quantum critical behavior in the heavy Fermion single crystal Ce(Ni _{0.935} Pd _{0.065}) ₂ Ge ₂ . Journal of Physics: Conference Series, 2011, 273, 012018. | 0.3 | 0 |
| 76 | Magneto-Polaron Formation and Field-Induced Effects with Dilute Doping in LaCo _{1-y} Ni _y O ₃ . Journal of Superconductivity and Novel Magnetism, 2013, 26, 2627-2632. | 0.8 | 0 |
| 77 | Magnetic order and instability in newly synthesized CoSeAs marcasite. Physical Review Research, 2020, 2, . | 1.3 | 0 |
| 78 | Spin dynamics in the square-lattice cupola system BaTiO_3 . Physical Review B, 2022, 105, . | | |