

Ioannis Rousochatzakis

List of Publications by Year in descending order

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49
papers

1,806
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218592

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1889
citing authors

#	ARTICLE	IF	CITATIONS
1	Kitaev interactions between $j = 1/2$ moments in honeycomb Na_2IrO_3 are large and ferromagnetic: insights from <i>ab initio</i> quantum chemistry calculations. <i>New Journal of Physics</i> , 2014, 16, 013056.	1.2	204
2	The quantum nature of skyrmions and half-skyrmions in Cu_2OSeO_3 . <i>Nature Communications</i> , 2014, 5, 5376.	5.8	108
3	Quantum Spin-Ice and Dimer Models with Rydberg Atoms. <i>Physical Review X</i> , 2014, 4, .	2.8	106
4	Highly frustrated magnetic clusters: The kagome \otimes on a sphere. <i>Physical Review B</i> , 2008, 77, .	1.1	71
5	Ferrimagnetism of the magnetoelectric compound Cu_2S by S . <i>Physical Review B</i> , 2015, 91, .	1.1	71
6	Phase Diagram and Quantum Order by Disorder in the Kitaev Magnet. <i>Physical Review X</i> , 2015, 5, .	2.8	70
7	Strongly frustrated triangular spin lattice emerging from triplet dimer formation in honeycomb Li_2IrO_3 . <i>Nature Communications</i> , 2016, 7, 10273.	5.8	66
8	Kitaev anisotropy induces mesoscopic Z_2 vortex crystals in frustrated hexagonal antiferromagnets. <i>Physical Review B</i> , 2016, 93, .	1.1	63
9	Magnetic State of Pyrochlore $\text{Cd}_2\text{Os}_2\text{O}_7$ Emerging from Strong Competition of Ligand Distortions and Longer-Range Crystalline Anisotropy. <i>Physical Review Letters</i> , 2013, 110, 127206.	2.9	59
10	Dzyaloshinsky-Moriya anisotropy and nonmagnetic impurities in the kagome system. <i>Physical Review B</i> , 2017, 95, .	1.1	57
11	Classical Spin Liquid Instability Driven By Off-Diagonal Exchange in Strong Spin-Orbit Magnets. <i>Physical Review Letters</i> , 2017, 118, 147204.	2.9	55
12	Bridging frustrated-spin-chain and spin-ladder physics: Quasi-one-dimensional magnetism of BiCu_2PO_6 . <i>Physical Review B</i> , 2010, 82, .	1.1	54
13	Quantum magnetism on the Cairo pentagonal lattice. <i>Physical Review B</i> , 2012, 85, .	1.1	46
14	Frustration and Dzyaloshinsky-Moriya anisotropy in the kagome francisites $\text{Cu}_3\text{Bi}_2\text{O}_{10}$. <i>Physical Review B</i> , 2015, 91, .	1.1	46
15	Quantum spin liquid at finite temperature: Proximate dynamics and persistent typicality. <i>Physical Review B</i> , 2019, 100, .	1.1	44
16	Magnetic structure and excitation spectrum of the hyperhoneycomb Kitaev magnet Os_2O_7 . <i>Physical Review B</i> , 2018, 97, .	1.1	40
17	Hysteresis Loops and Adiabatic Landau-Zener-Stückelberg Transitions in the Magnetic Molecule V_6 . <i>Physical Review Letters</i> , 2005, 94, 147204.	2.9	39
18	Magnetoelectric effects in single crystals of the cubic ferrimagnetic helimagnet Cu_2OSeO_3 . <i>Physical Review B</i> , 2012, 85, .	1.1	37

#	ARTICLE	IF	CITATIONS
37	Collective spin dynamics of Z^2 vortex crystals in triangular Kitaev-Heisenberg antiferromagnets. <i>Physical Review Research</i> , 2019, 1, .	1.3	15
38	Magnon-spinon dichotomy in the Kitaev hyperhoneycomb \hat{I}^2 . <i>Physical Review B</i> , 2021, 103, .	1.1	11
39	Destruction of valence-bond order in a S chain with a Dzyaloshinskii-Moriya term. <i>Physical Review B</i> , 2011, 84, .	1.1	11
40	Theory of severe slowdown in the relaxation of rings and clusters with antiferromagnetic interactions. <i>Physical Review B</i> , 2009, 79, .	1.1	11
41	Spin-Peierls instabilities of antiferromagnetic rings in a magnetic field. <i>Physical Review B</i> , 2009, 79, .	1.1	11
42	Emergence of one-dimensional physics from the distorted Shastry-Sutherland lattice. <i>Physical Review B</i> , 2011, 83, .	1.1	10
43	Unconventional magnetic field response of the hyperhoneycomb Kitaev magnet \hat{I}^2 . <i>Physical Review Research</i> , 2020, 2, .	1.3	10
44	Reentrant incommensurate order and anomalous magnetic torque in the Kitaev magnet \hat{I}^2 . <i>Physical Review Research</i> , 2020, 2, .	1.3	10
45	Non-Loudon-Fleury Raman scattering in spin-orbit coupled Mott insulators. <i>Physical Review B</i> , 2021, 104, .	1.1	9
46	Magnetic properties of the magnetoelectric compound Cu_2OSeO_3 : Magnetization and ^{77}Se NMR study. <i>Journal of Physics: Conference Series</i> , 2011, 303, 012069.	0.3	8
47	Quantum-classical crossover in the spin-Heisenberg-Kitaev kagome magnet. <i>Physical Review Research</i> , 2020, 2, .	1.3	10
48	Signatures of non-Loudon-Fleury Raman scattering in the Kitaev magnet \hat{I}^2 . <i>Physical Review B</i> , 2022, 105, .	1.1	4
49	Microscopic theory for the Markovian decay of magnetization fluctuations in nanomagnets. <i>Physical Review B</i> , 2007, 76, .	1.1	4