Ioannis Rousochatzakis

List of Publications by Year
in descending order

49 papers	1,806 citations	218592 26 h-index	265120 42 g-index
49 all docs	49 docs citations	49 times ranked	1889 citing authors

#	Article	IF	Citations
1	Signatures of non-Loudon-Fleury Raman scattering in the Kitaev magnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î²</mml:mi><mml:mtext>â^’</mml:mtext><mml:msub><mml:mrow><mml:mi> Physical Review B, 2022, 105, .	1.1	5
2	Magnon-spinon dichotomy in the Kitaev hyperhoneycomb <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î²</mml:mi><mml:mtext>â^’</mml:mtext><mml:msub><mml:mrow><mml:mi> Physical Review B, 2021, 103, .	1.1	14
3	Non-Loudon-Fleury Raman scattering in spin-orbit coupled Mott insulators. Physical Review B, 2021, 104, .	1.1	9
4	Unconventional magnetic field response of the hyperhoneycomb Kitaev magnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î²</mml:mi><mml:mo>â^’</mml:mo> Physical Review Research, 2020, 2, .	1.3	10
5	Quantum-classical crossover in the spin- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mfrac><mml:mn>1</mml:mn><mml:mn>2</mml:mn> Heisenberg-Kitaev kagome magnet. Physical Review Research, 2020, 2, .	1.3	5
6	Reentrant incommensurate order and anomalous magnetic torque in the Kitaev magnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î²</mml:mi><mml:mtext>â^’</mml:mtext> mathvariant="normal">O</mml:mi></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review Research, 2020, 2, .	1.3	10
7	Quantum spin liquid at finite temperature: Proximate dynamics and persistent typicality. Physical Review B, 2019, 100, .	1.1	44
8	Collective spin dynamics of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="double-struck">Z</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> vortex crystals in triangular Kitaev-Heisenberg antiferromagnets. Physical Review Research, 2019, 1, .	1.3	15
9	Microscopic theory of the nearest-neighbor valence bond sector of the spin- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mfrac><mml:mn>1</mml:mn><mml:mn>2</mml:mn> kagome antiferromagnet. Physical Review B, 2018, 97, .	1.1	19
10	Magnetic structure and excitation spectrum of the hyperhoneycomb Kitaev magnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î²</mml:mi><mml:mtext>â^’</mml:mtext> Physical Review B, 2018, 97, .	1.1	40
11	Magnetic field induced evolution of intertwined orders in the Kitaev magnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î²</mml:mi><mml:mtext>â^’</mml:mtext> Physical Review B, 2018, 97, .	1.1	30
12	Quantum spin liquid in the semiclassical regime. Nature Communications, 2018, 9, 1575.	5.8	28
13	Frustrated spin chain physics near the Majumdar-Ghosh point in szenicsite<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">Cu</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mo>(</mml:mo><mml:msub><mml:mi /><mml:mn>4</mml:mn></mml:msub> Physical Review B, 2017, 95, .	1.1	10
14	Spin-reorientation transitions in the Cairo pentagonal magnet Bi4Fe5O13F. Physical Review B, 2017, 96, .	1.1	15
15	Classical Spin Liquid Instability Driven By Off-Diagonal Exchange in Strong Spin-Orbit Magnets. Physical Review Letters, 2017, 118, 147204.	2.9	55
16	Strongly frustrated triangular spin lattice emerging from triplet dimer formation in honeycomb Li2IrO3. Nature Communications, 2016, 7, 10273.	5.8	66
17	Kitaev anisotropy induces mesoscopic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="double-struck">Z</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>vortex crystals in frustrated hexagonal antiferromagnets. Physical Review B, 2016, 93, .	1.1	63
18	Resonating-Valence-Bond Physics Is Not Always Governed by the Shortest Tunneling Loops. Physical Review Letters, 2015, 115, 167202.	2.9	19

#	Article	IF	Citations
19	Strong magnetic frustration and anti-site disorder causing spin-glass behavior in honeycomb Li2RhO3. Scientific Reports, 2015, 5, 14718.	1.6	25
20	Phase Diagram and Quantum Order by Disorder in the Kitaev<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>K</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:mrow> Magnet. Physical Review X, 2015, 5, .	2.8	70
21	Magnetic anisotropy in the kagome francisites<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">Cu</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mi mathvariant="normal">Bi</mml:mi><mml:mo>(</mml:mo><mml:mrow><mml:msub><mml:mi) Tj ETQq1 1 0.784314 rgBT /Overlock 10 mathvariant="normal">O</mml:mi><mml:mn. Physical Review B, 2015, 91, .	1.1	46
22	Quantum Spin-Ice and Dimer Models with Rydberg Atoms. Physical Review X, 2014, 4, .	2.8	106
23	Hindered magnetic order from mixed dimensionalities in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mtext>CuP</mml:mtext></mml:mrow><mml: Physical Review B, 2014, 89, .	1.1	28
24	Mechanism of Basal-Plane Antiferromagnetism in the Spin-Orbit Driven Iridate<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Ba</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml Physical Review X, 2014, 4, .	2.8	27
25	Quantum dimer model for the spin-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mfrac><mml:mn>1</mml:mn><mml:mn>2</mml:mn></mml:mfrac></ml xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>Z</mml:mi><mml:mn>2</mml:mn></mml:msub></mml liquid. Physical Review B, 2014, 90, .	1.1	23
26	Entangled tetrahedron ground state and excitations of the magnetoelectric skyrmion material<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cu</mml:mi><mml:mn>2</mml:mn></mml: Physical Review B, 2014, 90, .	1.1	28
27	Establishing the Fundamental Magnetic Interactions in the Chiral Skyrmionic Mott Insulator<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Cu</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></ Terahertz Electron Spin Resonance. Physical Review Letters, 2014, 113, 157205.	2.9	36
28	The quantum nature of skyrmions and half-skyrmions in Cu2OSeO3. Nature Communications, 2014, 5, 5376.	5.8	108
29	Kitaev interactions betweenj= 1/2 moments in honeycomb Na₂IrO₃are large and ferromagnetic: insights fromab initioquantum chemistry calculations. New Journal of Physics, 2014, 16, 013056.	1.2	204
30	Frustrated magnetism and resonating valence bond physics in two-dimensional kagome-like magnets. Physical Review B, 2013, 88, .	1.1	37
31	Magnetic State of PyrochloreCd2Os2O7Emerging from Strong Competition of Ligand Distortions and Longer-Range Crystalline Anisotropy. Physical Review Letters, 2013, 110, 127206.	2.9	59
32	Magnetization and spin dynamics of the spin<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>S</mml:mi><mml:mo>=</mml:mo><mml:mfrac><mml:mn>1</mml:mn><mml:mn>2</mml:mn> nanomagnet Cu<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /> <mml:mrow xmlns:mml="http://www.w3.org/1998/Math/MathML">(OH)<mml:math display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mfrac><mml:mn>1</mml:mn><mml:mn>2</mml:mn></mml:mfrac></mml:mrow></mml:msub></mml:math>	1.1	20
33	magnet CdCu<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow />		

#	Article	IF	Citations
37	Emergence of one-dimensional physics from the distorted Shastry-Sutherland lattice. Physical Review B, 2011, 83, .	1.1	10
38	Destruction of valence-bond order in a<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>S</mml:mi><mml:mo>=</mml:mo><mml:mfrac><mml:mn>1</mml:mn><mml:mn>2</mml:mn> chain with a Dzyaloshinskii-Moriya term. Physical Review B, 2011, 84, .	1.1	12
39	Bridging frustrated-spin-chain and spin-ladder physics: Quasi-one-dimensional magnetism ofBiCu2PO6. Physical Review B, 2010, 82, .	1.1	54
40	Ferrimagnetism of the magnetoelectric compound<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Cu</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msu by<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mtext>S</mml:mtext><mml:mprescripts /><mml:none /><mml:mrow><mml:mi>z</mml:mi></mml:mrow>	1.1	71
41	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>s</mml:mi><mml:mo>=</mml:mo><mml:mstyle scriptlevel="1"><mml:mfrac bevelled="false"><mml:mn>1</mml:mn><mml:mn>2</mml:mn></mml:mfrac></mml:mstyle></mml:mrow></mml:math> kagome	1.1	57
42	Theory of severe slowdown in the relaxation of rings and clusters with antiferromagnetic interactions. Physical Review B, 2009, 79, .	1.1	11
43	Spin-Peierls instabilities of antiferromagnetic rings in a magnetic field. Physical Review B, 2009, 79, .	1.1	11
44	Highly frustrated magnetic clusters: The kagomÃ© on a sphere. Physical Review B, 2008, 77, .	1.1	71
45	Microscopic theory for the Markovian decay of magnetization fluctuations in nanomagnets. Physical Review B, 2007, 76, .	1.1	4
46	Hysteresis Loops and Adiabatic Landau-Zener-StÃ¼ckelberg Transitions in the Magnetic Molecule{V6}. Physical Review Letters, 2005, 94, 147204.	2.9	39
47	Master equations for pulsed magnetic fields: Application to magnetic molecules. Physical Review B, 2005, 72, .	1.1	18
48	Magnetic susceptibility and spin dynamics of a polyoxovanadate cluster:â€ƒA proton NMR study of a model spin tetramer. Physical Review B, 2004, 69, .	1.1	21
49	Transmission losses in left-handed materials. Physical Review E, 2002, 66, 045601.	0.8	31