Maria Daghofer

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2124108/publications.pdf

Version: 2024-02-01

84 papers	3,492 citations	136740 32 h-index	138251 58 g-index
86 all docs	86 docs citations	86 times ranked	2945 citing authors

#	Article	IF	Citations
1	Comparing the influence of Floquet dynamics in various Kitaev-Heisenberg materials. Physical Review B, 2022, 105, .	1.1	9
2	Experimentally Accessible Scheme for a Fractional Chern Insulator in Rydberg Atoms. PRX Quantum, 2022, 3, .	3.5	11
3	Interplay between Zhang-Rice singlets and high-spin states in a model for doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">NiO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> planes. Physical Review B, 2021, 103, .	1.1	16
4	Proximate ferromagnetic state in the Kitaev model material Î±-RuCl3. Nature Communications, 2021, 12, 4512.	5.8	47
5	Suppression of effective spin-orbit coupling by thermal fluctuations in spin-orbit coupled antiferromagnets. Physical Review B, 2021, 104, .	1.1	5
6	Character of Doped Holes in Nd1âˆ’xSrxNiO2. Condensed Matter, 2021, 6, 33.	0.8	5
7	Magnetic phases for strongly correlated <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msubsup><mml:mi>t</mml:mi><mml:mrow><mml:mn>2</mml:mn><m electrons on the square lattice: Impact of spin-orbit coupling and crystal field. Physical Review B, 2021, 104, .	1.1	4
8	Mobile orbitons in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ca</mml:mi><mml:mn>2</mml:mn></mml:msub></mml: : Crucial role of Hund's exchange. Physical Review B, 2020, 101, .	1.1	10
9	Blockâ€“spiral magnetism: An exotic type of frustrated order. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 16226-16233.	3.3	25
10	Excitonic magnetism at the intersection of spin-orbit coupling and crystal-field splitting. Physical Review Research, 2020, 2, .	1.3	17
11	Novel Magnetic Block States in Low-Dimensional Iron-Based Superconductors. Physical Review Letters, 2019, 123, 027203.	2.9	31
12	Unique Crystal Structure of Ca2RuO4 in the Current Stabilized Semimetallic State. Physical Review Letters, 2019, 123, 137204.	2.9	31
13	Nontrivial Triplon Topology and Triplon Liquid in Kitaev-Heisenberg-type Excitonic Magnets. Physical Review Letters, 2019, 122, 177201.	2.9	17
14	Phenomenological three-orbital spin-fermion model for cuprates. Physical Review B, 2018, 98, .	1.1	5
15	Spinon-orbiton repulsion and attraction mediated by Hund's rule. Physical Review B, 2018, 98, .	1.1	5
16	From frustrated to unfrustrated: Coupling two triangular-lattice itinerant quantum magnets. Physical Review B, 2017, 96, .	1.1	3
17	Models and materials for generalized Kitaev magnetism. Journal of Physics Condensed Matter, 2017, 29, 493002.	0.7	384
18	Dynamics of a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>j</mml:mi><mml:mo>=</mml:mo><mml:mfrac quantum spin liquid. Physical Review B, 2017, 96, .	1.1	18

#	Article	IF	Citations
19	Green's function variational approach to orbital polarons inKCuF3. Physical Review B, 2016, 94, .	1.1	7
20	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
21	Jahn-Teller Effect in Systems with Strong On-Site Spin-Orbit Coupling. Physical Review Letters, 2016, 116, 106401.	2.9	28
22	Hole Propagation in the Orbital Compass Models. Acta Physica Polonica A, 2015, 127, 263-265.	0.2	4
23	Combined Topological and Landau Order from Strong Correlations in Chern Bands. Physical Review Letters, 2014, 113, 216404.	2.9	28
24	Mechanism of hole propagation in the orbital compass models. Physical Review B, 2014, 89, .	1.1	10
25	Phases of correlated spinless fermions on the honeycomb lattice. Physical Review B, 2014, 89, .	1.1	74
26	Femtosecond Dynamics of Momentum-Dependent Magnetic Excitations from Resonant Inelastic X-Ray Scattering in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>CaCu</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>. Physical Review Letters, 2014, 112, 147401.	2.9	24
27	Excitonic quasiparticles in a spinâ€“orbit Mott insulator. Nature Communications, 2014, 5, 4453.	5.8	118
28	Toward Fractional Quantum Hall Physics with Cold Atoms. Physics Magazine, 2013, 6, .	0.1	2
29	Exact diagonalization results for resonant inelastic x-ray scattering spectra of one-dimensional Mott insulators. Physical Review B, 2012, 85, .	1.1	37
30	Fractional Chern insulator on a triangular lattice of strongly correlated<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>t</mml:mi><mml:mrow><mml:mn>2</mml:mn><mml:mi>g</mml:mi></mml:mrow></mml:msu Physical Review B, 2012, 86, .	1.1	41
31	Magnetic Excitation Spectra of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Sr</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>IrO</mml:mi><mml:mn by Resonant Inelastic X-Ray Scattering: Establishing Links to Cuprate Superconductors. Physical Review Letters, 2012, 108, 177003.	2.9	408
32	Pairing symmetries of a hole-doped extended two-orbital model for the pnictides. Physical Review B, 2012, 85, .	1.1	16
33	Switchable Quantum Anomalous Hall State in a Strongly Frustrated Lattice Magnet. Physical Review Letters, 2012, 109, 166405.	2.9	37
34	Breaking of fourfold lattice symmetry in a model for pnictide superconductors. Superconductor Science and Technology, 2012, 25, 084003.	1.8	4
35	Dispersion of orbital excitations in 2D quantum antiferromagnets. Journal of Physics: Conference Series, 2012, 391, 012168.	0.3	4
36	Large Spin-Wave Energy Gap in the Bilayer Iridate<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Sr</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi>Ir</mml:mi><mml:mn mathvariant="normal">O</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:math>: Evidence for Enhanced Dipolar Interactions Near the Mott Metal-Insulator Transition. Physical Review Letters, 2012, 109, 157402.	2.9	121

#	Article	IF	Citations
37	Spectral density in a nematic state of iron pnictides. Physical Review B, 2012, 85, .	1.1	17
38	Fractional Quantum-Hall Liquid Spontaneously Generated by Strongly Correlated<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>t</mml:mi><mml:mrow><mml:mn>2</mml:mn><mml:mi>g</mml:mi></mml:mrow></mml:msu Physical Review Letters, 2012, 108, 126405.	2.9	71
39	Dimensionality Driven Spin-Flop Transition in Layered Iridates. Physical Review Letters, 2012, 109, 037204.	2.9	117
40	Probing the Unconventional Superconducting State of LiFeAs by Quasiparticle Interference. Physical Review Letters, 2012, 108, 127001.	2.9	62
41	Interaction-range effects for fermions in one dimension. Physical Review B, 2012, 85, .	1.1	22
42	Intrinsic Coupling of Orbital Excitations to Spin Fluctuations in Mott Insulators. Physical Review Letters, 2011, 107, 147201.	2.9	58
43	Magnetic order in orbital models of the iron pnictides. Journal of Physics Condensed Matter, 2011, 23, 246001.	0.7	26
44	Emergent dimensional reduction of the spin sector in a model for narrow-band manganites. Physical Review B, 2011, 84, .	1.1	16
45	Competing Pairing Symmetries in a Generalized Two-Orbital Model for the Pnictide Superconductors. Physical Review Letters, 2011, 106, 217002.	2.9	46
46	Theory of magnetism and triplet superconductivity in LiFeAs. Physical Review B, 2011, 83, .	1.1	59
47	Narrowing of Topological Bands due to Electronic Orbital Degrees of Freedom. Physical Review Letters, 2011, 107, 116401.	2.9	36
48	Macroscopic Degeneracy and Emergent Frustration in a Honeycomb Lattice Magnet. Physical Review Letters, 2011, 107, 076405.	2.9	21
49	Role of degeneracy, hybridization, and nesting in the properties of multiorbital systems. Physical Review B, 2011, 84, .	1.1	15
50	Spin-orbital physics for p orbitals in alkali RO ₂ hyperoxidesâ€”Generalization of the Goodenough-Kanamori rules. Europhysics Letters, 2011, 96, 27001.	0.7	28
51	Orbital-weight redistribution triggered by spin order in the pnictides. Physical Review B, 2010, 81, .	1.1	55
52	Constraints imposed by symmetry on pairing operators for the iron pnictides. Physical Review B, 2010, 81, .	1.1	5
53	Spin-polarized semiconductor induced by magnetic impurities in graphene. Physical Review B, 2010, 82, .	1.1	14
54	Comment on â€œNonmagnetic Impurity Resonances as a Signature of Sign-Reversal Pairing in FeAs-Based Superconductorsâ€• Physical Review Letters, 2010, 104, 089701; author reply 089702.	2.9	5

#	Article	IF	Citations
55	Neutron and ARPES constraints on the couplings of the multiorbital Hubbard model for the iron pnictides. Physical Review B, 2010, 82, .	1.1	65
56	Three orbital model for the iron-based superconductors. Physical Review B, 2010, 81, .	1.1	177
57	Interband pairing in multiorbital systems. Physical Review B, 2009, 80, .	1.1	39
58	Phase diagram and single-particle spectrum of CuO₂high-T_clayers: variational cluster approach to the three-band Hubbard model. New Journal of Physics, 2009, 11, 055066.	1.2	44
59	Magnetic and metallic state at intermediate Hubbard<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>U</mml:mi></mml:math>coupling in multiorbital models for undoped iron pnictides. Physical Review B, 2009, 79, .	1.1	62
60	Properties of a two-orbital model for oxypnictide superconductors: Magnetic order,B2gspin-singlet pairing channel, and its nodal structure. Physical Review B, 2009, 79, .	1.1	111
61	Reiter's Polaron Wave Function Applied to a t_{2g}Orbital t-J Model. Acta Physica Polonica A, 2009, 115, 110-113.	0.2	2
62	Model for the Magnetic Order and Pairing Channels in Fe Pnictide Superconductors. Physical Review Letters, 2008, 101, 237004.	2.9	127
63	Magnetism of one-dimensional Wigner lattices and its impact on charge order. Physical Review B, 2008, 78, .	1.1	4
64	Spectral properties of orbital polarons in Mott insulators. Physical Review B, 2008, 78, .	1.1	40
65	Absence of Hole Confinement in Transition-Metal Oxides with Orbital Degeneracy. Physical Review Letters, 2008, 100, 066403.	2.9	57
66	Spin Structure and Dynamical Magnetic Response of Spin-Orbital Polarons in Lightly Doped Cobaltates. NATO Science for Peace and Security Series B: Physics and Biophysics, 2008, , 49-55.	0.2	0
67	Fractional charges and spin-charge separation in one-dimensional Wigner lattices. Physical Review B, 2007, 75, .	1.1	9
68	Half-metallic ferromagnetism and spin polarization inCrO2. Physical Review B, 2007, 75, .	1.1	67
69	Variational cluster treatment of the three-band Hubbard model: Electron vs. hole doping. Physica C: Superconductivity and Its Applications, 2007, 460-462, 981-982.	0.6	1
70	Orbital Correlations in Monolayer Manganites - From Spin t-J Model to Orbital t-J Model. Acta Physica Polonica A, 2007, 111, 497-512.	0.2	9
71	Two-band ferromagnetic Kondo lattice model on a ladder with quantum S = 3/2 core spins. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 32-35.	0.8	4
72	Temperature effects in a spin-orbital model for manganites. Physica Status Solidi (B): Basic Research, 2006, 243, 277-280.	0.7	8

#	Article	IF	Citations
73	Ferromagnetic polarons in the one-dimensional ferromagnetic Kondo model with quantum mechanicalS=3â^•2core spins. Physical Review B, 2006, 73, .	1.1	16
74	Doping dependence of spin and orbital correlations in layered manganites. Physical Review B, 2006, 73, .	1.1	34
75	Magnetic Properties of Spin-Orbital Polarons in Lightly Doped Cobaltates. Physical Review Letters, 2006, 96, 216404.	2.9	31
76	Single-particle spectrum of the flux phase in the FM Kondo model. Physica B: Condensed Matter, 2005, 359-361, 804-806.	1.3	2
77	Onset of metallic ferromagnetism in a doped spin-orbital chain. Physica Status Solidi (B): Basic Research, 2005, 242, 311-316.	0.7	7
78	Breakdown of the mirror image symmetry in the optical absorption/emission spectra of oligo(para-phenylene)s. Journal of Chemical Physics, 2005, 122, 054501.	1.2	117
79	Polaronic aspects of the two-dimensional ferromagnetic Kondo model. Journal of Physics Condensed Matter, 2004, 16, 5469-5482.	0.7	9
80	Modeling Energy Confinement in Plasma Devices by Neural Networks. AIP Conference Proceedings, 2004, , .	0.3	0
81	Orbital polarons versus itinerantegelectrons in doped manganites. Physical Review B, 2004, 70, .	1.1	47
82	Perfect Tempering. AIP Conference Proceedings, 2004, , .	0.3	2
83	Low-temperature Lanczos method for strongly correlated systems. Physical Review B, 2003, 67, .	1.1	58
84	Aspects of the FM Kondo Model: From Unbiased MC Simulations to Back-of-an-Envelope Explanations. , 0, , 31-45.		0