

Andriy H Nevidomskyy

List of Publications by Year in descending order

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63
papers

3,246
citations

201674

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144013

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docs citations

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times ranked

4452
citing authors

#	ARTICLE	IF	CITATIONS
1	Noncollinear antiferromagnetic order and effect of spin-orbit coupling in spin-1 honeycomb lattice. <i>Physical Review Materials</i> , 2022, 6, .	2.4	2
2	Charge-neutral fermions and magnetic field-driven instability in insulating Yb ₁₋₃ Si ₇ . <i>Nature Communications</i> , 2022, 13, 394.	12.8	5
3	Nonsymmorphic symmetry-protected band crossings in a square-net metal PtPb ₄ . <i>Npj Quantum Materials</i> , 2022, 7, .	5.2	10
4	Accurate tight-binding model for twisted bilayer graphene describes topological flat bands without geometric relaxation. <i>Physical Review B</i> , 2022, 105, .	3.2	9
5	Inherited topological superconductivity in two-dimensional Dirac semimetals. <i>Physical Review B</i> , 2022, 105, .	3.2	3
6	Anisotropy-driven quantum criticality in an intermediate valence system. <i>Nature Communications</i> , 2022, 13, 2141.	12.8	1
7	Sleuthing out exotic quantum spin liquidity in the pyrochlore magnet Ce ₂ Zr ₂ O ₇ . <i>Npj Quantum Materials</i> , 2022, 7, .	5.2	22
8	Long-range order and quantum criticality in a dissipative spin chain. <i>Physical Review B</i> , 2022, 105, .	3.2	0
9	Field-induced quantum critical point in the itinerant antiferromagnet Ti ₃ Cu ₄ . <i>Communications Physics</i> , 2022, 5, .	5.3	1
10	Topological Weyl magnons and thermal Hall effect in layered honeycomb ferromagnets. <i>Physical Review B</i> , 2021, 104, .	3.2	7
11	Tuning magnetic confinement of spin-triplet superconductivity. <i>Npj Quantum Materials</i> , 2020, 5, .	5.2	31
12	Fractionalized Excitations Revealed by Entanglement Entropy. <i>Physical Review Letters</i> , 2020, 124, 237201.	7.8	3
13	Experimental signatures of a three-dimensional quantum spin liquid in effective spin-1/2 Ce ₂ Zr ₂ O ₇ pyrochlore. <i>Nature Physics</i> , 2019, 15, 1052-1057.	16.7	92
14	Nematic spin liquid phase in a frustrated spin-1 system on the square lattice. <i>Physical Review B</i> , 2019, 100, .	3.2	9
15	Possible Mott transition in layered SrO_2 single crystals. <i>Physical Review B</i> , 2019, 99, .	3.2	3
16	Low-carrier density and fragile magnetism in a Kondo lattice system. <i>Physical Review B</i> , 2019, 99, .	3.2	9
17	Topological superconductivity of spin-3/2 carriers in a three-dimensional doped Luttinger semimetal. <i>Physical Review B</i> , 2019, 99, .	3.2	62
18	From two-dimensional spin vortex crystal to three-dimensional Néel order in the Mott insulator SrO_2 . <i>Physical Review B</i> , 2019, 99, .	3.2	62

#	ARTICLE	IF	CITATIONS
19	Kondo hybridization and quantum criticality in LaFePO_4 by laser ARPES. <i>Physical Review B</i> , 2018, 97, .	3.2	1
20	Anomalous Metamagnetism in the Low Carrier Density Kondo Lattice YbRh_2Si_2 . <i>Physical Review X</i> , 2018, 8, .	8.9	12
21	Efficient Monte Carlo simulation of a dissipative Ising chain. <i>AIP Advances</i> , 2018, 8, 101415.	1.3	1
22	Local orthorhombic lattice distortions in the paramagnetic tetragonal phase of superconducting $\text{NaFe}_1-x\text{Ni}_x\text{As}$. <i>Nature Communications</i> , 2018, 9, 3128.	12.8	20
23	Unified spin model for magnetic excitations in iron chalcogenides. <i>Physical Review B</i> , 2017, 96, .	3.2	1
24	A Mott insulator continuously connected to iron pnictide superconductors. <i>Nature Communications</i> , 2016, 7, 13879.	12.8	36
25	A Pnictide Insulating Phase Induced by On-Site Coulomb Interaction. <i>Physical Review Letters</i> , 2016, 117, 097001.	7.8	16
26	Tuning the Magnetic Quantum Criticality of Artificial Kondo Superlattices CeRhIn_5 . <i>Physical Review Letters</i> , 2016, 116, 206401.	7.8	16
27	Spin Ferroquadrupolar Order in the Nematic Phase of FeSe. <i>Physical Review Letters</i> , 2016, 116, 247203.	7.8	31
28	Impact of uniaxial pressure on structural and magnetic phase transitions in electron-doped iron pnictides. <i>Physical Review B</i> , 2016, 93, .	3.2	32
29	Competing superconducting channels in iron pnictides from the strong coupling theory with biquadratic spin interactions. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 495702.	1.8	2
30	Ising-nematic order in the bilinear-biquadratic model for the iron pnictides. <i>Physical Review B</i> , 2015, 92, .	3.2	11
31	Topological Weyl superconductor to diffusive thermal Hall metal crossover in the B_2UPT phase. <i>Physical Review B</i> , 2015, 92, .	3.2	55
32	Three-Dimensional Crystallization of Vortex Strings in Frustrated Quantum Magnets. <i>Physical Review Letters</i> , 2015, 115, 107201.	7.8	26
33	Orbital nematic order and interplay with magnetism in the two-orbital Hubbard model. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 225602.	1.8	10
34	An itinerant antiferromagnetic metal without magnetic constituents. <i>Nature Communications</i> , 2015, 6, 7701.	12.8	33
35	Frustration and multicriticality in the antiferromagnetic spin-1 chain. <i>Physical Review B</i> , 2014, 90, .	3.2	24
36	Hydrogen Diffusion and Stabilization in Single-Crystal VO_2 Micro/Nanobeams by Direct Atomic Hydrogenation. <i>Nano Letters</i> , 2014, 14, 5445-5451.	9.1	65

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37	Nematic spin correlations in the tetragonal state of uniaxial-strained BaFe ₂ As ₂ . Science, 2014, 345, 657-660.	12.6	167
38	In Situ Diffraction Study of Catalytic Hydrogenation of VO ₂ : Stable Phases and Origins of Metallicity. Journal of the American Chemical Society, 2014, 136, 8100-8109.	13.7	67
39	Avoided Quantum Criticality and Magnetoelastic Coupling in BaFe ₂ As ₂ . Physical Review Letters, 2013, 110, 257001.	7.8	68
40	Topological metal behavior in GeBiTe. Physical Review B, 2013, 88, .	3.2	16
41	Spin dynamics of a single crystal. Physical Review B, 2013, 88, .	7.8	59
42	Composite pairing in a mixed-valent two-channel Anderson model. Physical Review B, 2011, 84, .	3.2	43
43	T/BScaling of magnetization in the mixed valent compound \hat{I}^2 -YbAlB ₄ . Journal of Physics: Conference Series, 2012, 391, 012041.	0.4	9
44	Strongly Correlated Materials. Advanced Materials, 2012, 24, 4896-4923.	21.0	129
45	Electronic nematicity above the structural and superconducting transition in BaFe ₂ (As _{1-x} P _x) ₂ . Nature, 2012, 486, 382-385.	27.8	399
46	Hydrogen stabilization of metallic vanadium dioxide in single-crystal nanobeams. Nature Nanotechnology, 2012, 7, 357-362.	31.5	259
47	Quantum Criticality Without Tuning in the Mixed Valence Compound \hat{I}^2 -YbAlB ₄ . Science, 2011, 331, 316-319.	12.6	199
48	Composite pairing in a mixed-valent two-channel Anderson model. Physical Review B, 2011, 84, .	3.2	23
49	Frustration and the Kondo Effect in Heavy Fermion Materials. Journal of Low Temperature Physics, 2010, 161, 182-202.	1.4	162
50	Bulk Magnetic Order in a Two-Dimensional		

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55	High-Pressure Polymorphism as a Step towards Destabilization of LiBH ₄ . Angewandte Chemie - International Edition, 2008, 47, 529-532.	13.8	106
56	Convexity of the self-energy functional in the variational cluster approximation. Physical Review B, 2008, 77, .	3.2	8
57	Coexistence of itinerant ferromagnetism and a nonunitary superconducting state with line nodes: Possible application to UGe_2 . Physical Review B, 2008, 77, .	3.2	18
58	Magnetism and d-wave superconductivity on the half-filled square lattice with frustration. Physical Review B, 2008, 77, .	3.2	52
59	Nontrivial interplay of superconductivity and spin-orbit coupling in noncentrosymmetric ferromagnets. Physical Review B, 2008, 78, .	3.2	15
60	The role of the interlayer state in the electronic structure of superconducting graphite intercalated compounds. Nature Physics, 2005, 1, 42-45.	16.7	255
61	Coexistence of Ferromagnetism and Superconductivity Close to a Quantum Phase Transition: The Heisenberg- to Ising-type Crossover. Physical Review Letters, 2005, 94, 097003.	7.8	25
62	Chemically Active Substitutional Nitrogen Impurity in Carbon Nanotubes. Physical Review Letters, 2003, 91, 105502.	7.8	221
63	Parameters of the electron spectrum of orthorhombic indium chloride single crystals. Journal of Physical Studies, 2000, 4, 437-447.	0.5	1