Andriy H Nevidomskyy

List of Publications by Year
in descending order

63	3,246	201674 27	144013 57
papers	citations	h-index	g-index

67	67	67	4452
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electronic nematicity above the structural and superconducting transition in BaFe2(As1âˆ’xP x)2. Nature, 2012, 486, 382-385.	27.8	399
2	Hydrogen stabilization of metallic vanadium dioxide in single-crystal nanobeams. Nature Nanotechnology, 2012, 7, 357-362.	31.5	259
3	The role of the interlayer state in the electronic structure of superconducting graphite intercalated compounds. Nature Physics, 2005, 1, 42-45.	16.7	255
4	Chemically Active Substitutional Nitrogen Impurity in Carbon Nanotubes. Physical Review Letters, 2003, 91, 105502.	7.8	221
5	Quantum Criticality Without Tuning in the Mixed Valence Compound Î²-YbAlB ₄. Science, 2011, 331, 316-319.	12.6	199
6	Nematic spin correlations in the tetragonal state of uniaxial-strained BaFe _{2âˆ’} _x Ni _x As ₂. Science, 2014, 345, 657-660.	12.6	167
7	Frustration and the Kondo Effect in Heavy Fermion Materials. Journal of Low Temperature Physics, 2010, 161, 182-202.	1.4	162
8	Strongly Correlated Materials. Advanced Materials, 2012, 24, 4896-4923.	21.0	129
9	Highâ€Pressure Polymorphism as a Step towards Destabilization of LiBH₄. Angewandte Chemie - International Edition, 2008, 47, 529-532.	13.8	106
10	Experimental signatures of a three-dimensional quantum spin liquid in effective spin-1/2 Ce2Zr2O7 pyrochlore. Nature Physics, 2019, 15, 1052-1057.	16.7	92
11	Kondo Resonance Narrowing in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>d</mml:mi></mml:math>- and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>f</mml:mi></mml:math>-Electron Systems. Physical Review Letters, 2009, 103, Bulk Magnetic Order in a Two-Dimensional<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"	7.8	77
12			

#	Article	IF	Citations
19	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î²</mml:mi><mml:mtext mathvariant="normal">â^'</mml:mtext><mml:msub><mml:mi>YbAlB</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:math>: A Critical Nodal Metal. Physical Review Letters, 2012, 109, 176404.	7.8	59
20	Topological Weyl superconductor to diffusive thermal Hall metal crossover in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>B</mml:mi></mml:math>phase of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>UPt</mml:mi><mml:mn>3</mml:mn></mml:msub></mm Physical Review B, 2015, 92, .	3.2	55
21	Magnetism andd-wave superconductivity on the half-filled square lattice with frustration. Physical Review B, 2008, 77, .	3.2	52
22	Spin dynamics of a<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>J</mml:mi><mml:mn>1</mml:mn></mml:msub></mml:math>-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>J</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>K</mml:mi></mml:math>model for the paramagnetic phase of iron pnictides.	3.2	43
23	A Mott insulator continuously connected to iron pnictide superconductors. Nature Communications, 2016, 7, 13879.	12.8	36
24	An itinerant antiferromagnetic metal without magnetic constituents. Nature Communications, 2015, 6, 7701.	12.8	33
25	Impact of uniaxial pressure on structural and magnetic phase transitions in electron-doped iron pnictides. Physical Review B, 2016, 93, .	3.2	32
26	Spin Ferroquadrupolar Order in the Nematic Phase of FeSe. Physical Review Letters, 2016, 116, 247203.	7.8	31
27	Tuning magnetic confinement of spin-triplet superconductivity. Npj Quantum Materials, 2020, 5, .	5.2	31
28	Three-Dimensional Crystallization of Vortex Strings in Frustrated Quantum Magnets. Physical Review Letters, 2015, 115, 107201.	7.8	26
29	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
30	Frustration and multicriticality in the antiferromagnetic spin-1 chain. Physical Review B, 2014, 90, .	3.2	24
31	Composite pairing in a mixed-valent two-channel Anderson model. Physical Review B, 2011, 84, .	3.2	23
32	Sleuthing out exotic quantum spin liquidity in the pyrochlore magnet Ce2Zr2O7. Npj Quantum Materials, 2022, 7, .	5.2	22
33	Local orthorhombic lattice distortions in the paramagnetic tetragonal phase of superconducting NaFe1â^'xNixAs. Nature Communications, 2018, 9, 3128.	12.8	20
34	Coexistence of itinerant ferromagnetism and a nonunitary superconducting state with line nodes: Possible application to<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>UGe</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:ms Physical Review B, 2008, 77, .	3.2	18
35	Topological metal behavior in GeBi<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Te<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /> Physical Review B, 2013, 88, .	3.2	16
36	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>NaFe</mml:mi></mml:mrow><mml:mrow><mml:mn>0.56</mml:mn> A Pnictide Insulating Phase Induced by On-Site Coulomb Interaction. Physical Review Letters, 2016, 117, 097001.	7.8	16

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37	Tuning the Magnetic Quantum Criticality of Artificial Kondo Superlattices<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mrow><mml:msub><mml:mrow><mml:mi>CeRhIn</mml:mi></mml:mrow><mml:mrow><mml:m Physical Review Letters, 2016, 116, 206401.	7.8	16
38	Nontrivial interplay of superconductivity and spin-orbit coupling in noncentrosymmetric ferromagnets. Physical Review B, 2008, 78, .	3.2	15
39	Anomalous Metamagnetism in the Low Carrier Density Kondo Lattice <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>YbRh</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn> Physical Review X, 2018, 8, .	8.9	12
40	Ising-nematic order in the bilinear-biquadratic model for the iron pnictides. Physical Review B, 2015, 92, .	3.2	11
41	Orbital nematic order and interplay with magnetism in the two-orbital Hubbard model. Journal of Physics Condensed Matter, 2015, 27, 225602.	1.8	10
42	Kondo hybridization and quantum criticality in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î²</mml:mi><mml:mo>â^'</mml:mo> by laser ARPES. Physical Review B, 2018, 97, .	3.2	10
43	Nonsymmorphic symmetry-protected band crossings in a square-net metal PtPb4. Npj Quantum Materials, 2022, 7, .	5.2	10
44	T/Bscaling of magnetization in the mixed valent compoundÎ²-YbAlB4. Journal of Physics: Conference Series, 2012, 391, 012041.	0.4	9
45	Nematic spin liquid phase in a frustrated spin-1 system on the square lattice. Physical Review B, 2019, 100, .	3.2	9
46	Low-carrier density and fragile magnetism in a Kondo lattice system. Physical Review B, 2019, 99, .	3.2	9
47	Accurate tight-binding model for twisted bilayer graphene describes topological flat bands without geometric relaxation. Physical Review B, 2022, 105, .	3.2	9
48	Convexity of the self-energy functional in the variational cluster approximation. Physical Review B, 2008, 77, .	3.2	8
49	Topological Weyl magnons and thermal Hall effect in layered honeycomb ferromagnets. Physical Review B, 2021, 104, .	3.2	7
50	Charge-neutral fermions and magnetic field-driven instability in insulating YbIr3Si7. Nature Communications, 2022, 13, 394.	12.8	5
51	Possible Mott transition in layered <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Sr</mml:mi><mml:mn>2</mml:mn></mml:msub> mathvariant="normal">O</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> single crystals. Physical Review B, 2019, 99, .	3.2	3
52	From two-dimensional spin vortex crystal to three-dimensional NÃ©el order in the Mott insulator <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Sr</mml:mi><mml:mn>2</mml:mn></mml:msub>		

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55	Competing superconducting channels in iron pnictides from the strong coupling theory with biquadratic spin interactions. Journal of Physics Condensed Matter, 2016, 28, 495702.	1.8	2
56	Noncollinear antiferromagnetic order and effect of spin-orbit coupling in spin-1 honeycomb lattice. Physical Review Materials, 2022, 6, .	2.4	2
57	Unified spin model for magnetic excitations in iron chalcogenides. Physical Review B, 2017, 96, .	3.2	1
58	Efficient Monte Carlo simulation of a dissipative Ising chain. AIP Advances, 2018, 8, 101415.	1.3	1
59	Parameters of the electron spectrum of orthorhombic indium chloride single crystals. Journal of Physical Studies, 2000, 4, 437-447.	0.5	1
60	Anisotropy-driven quantum criticality in an intermediate valence system. Nature Communications, 2022, 13, 2141.	12.8	1
61	Field-induced quantum critical point in the itinerant antiferromagnet Ti3Cu4. Communications Physics, 2022, 5, .	5.3	1
62	Probing strong and weak interactions in Mg(BH4)2and NH3BH3by diffraction under high pressure. Acta Crystallographica Section A: Foundations and Advances, 2009, 65, s125-s126.	0.3	0
63	Long-range order and quantum criticality in a dissipative spin chain. Physical Review B, 2022, 105, .	3.2	0