Andrei Savici

List of Publications by Year
in descending order

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68 papers	3,631 citations	218677 26 h-index	128289 60 g-index
70 all docs	70 docs citations	70 times ranked	5089 citing authors

#	Article	IF	Citations
1	On-the-fly autonomous control of neutron diffraction via physics-informed Bayesian active learning. Applied Physics Reviews, 2022, 9, 021408.	11.3	25
2	drtsans: The data reduction toolkit for small-angle neutron scattering at Oak Ridge National Laboratory. SoftwareX, 2022, 19, 101101.	2.6	32
3	Dispersity-Driven Stabilization of Coexisting Morphologies in Asymmetric Diblock Copolymer Thin Films. Macromolecules, 2021, 54, 450-459.	4.8	2
4	Electronic properties of the bulk and surface states of Fe1+yTe1âˆ’xSex. Nature Materials, 2021, 20, 1221-1227.	27.5	34
5	Quantification of local Ising magnetism in rare-earth pyrogermanates <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Er</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:mrow></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Yb</mml:mi><mml:mn>2</mml:mn></mml:msub>	3.2	8
6	Physical Review B, 2020, 101, . Signatures of coupling between spin waves and Dirac fermions in YbMnBi2. Physical Review B, 2020, 101, .	3.2	16
7	Spin-liquid-like state in pure and Mn-doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>TbInO</mml:mi><mml:mn>3</mml:mn></mml:msub> with a nearly triangular lattice. Physical Review B, 2019, 100, .	3.2	10
8	Antiferromagnetic ordering and dipolar interactions of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>YbAlO</mml:mi><mml:mn>3</mml:mn></mml:msub> Physical Review B, 2019, 99, .	3.2	24
9	Magnetic Excitations of the Classical Spin Liquid <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>MgCr</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:mn>4</mml:mn></mml:mrow></mml:msub></mml:mrow></mml: Physical Review Letters, 2019, 122, 097201.	7.8	64
10	Tomonagaâ€“Luttinger liquid behavior and spinon confinement in YbAlO3. Nature Communications, 2019, 10, 698.	12.8	56
11	Excitations in the field-induced quantum spin liquid state of Î±-RuCl3. Npj Quantum Materials, 2018, 3, .	5.2	254
12	Manifolds of magnetic ordered states and excitations in the almost Heisenberg pyrochlore antiferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">MgCr</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:math>. Physical Review B, 2018, 97, .	3.2	14
13	A Triplet Resonance in Superconducting Fe 1.03 Se 0.4 Te 0.6. Chinese Physics Letters, 2018, 35, 127401.	3.3	5
14	Advances in utilizing event based data structures for neutron scattering experiments. Review of Scientific Instruments, 2018, 89, 093001.	1.3	9
15	Magnetic ground state of the Ising-like antiferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>DyScO</mml:mi><mml:mn>3</mml:mn></mml:msub> Physical Review B, 2017, 96, .	3.2	27
16	Data processing workflow for time of flight polarized neutrons inelastic measurements. Journal of Physics: Conference Series, 2017, 862, 012023.	0.4	4
17	Polarized neutron scattering on HYSPEC: the HYbrid SPECtrometer at SNS. Journal of Physics: Conference Series, 2017, 862, 012030.	0.4	23
18	Expanding Lorentz and spectrum corrections to large volumes of reciprocal space for single-crystal time-of-flight neutron diffraction. Journal of Applied Crystallography, 2016, 49, 497-506.	4.5	34

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19	Neutron scattering studies of spin-phonon hybridization and superconducting spin gaps in the high-temperature superconductor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mtext>La</mml:mtext><mml:mrow><mml:mi> Physical Review B, 2016, 93, .	3.2	8
20	Quasi-two-dimensional spin and phonon excitations inLa1.965Ba0.035CuO4. Physical Review B, 2015, 91, .	3.2	11
21	Neutron scattering study of spin ordering and stripe pinning in superconducting<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>La</mml:mi><mml:mrow><mml:mn>1.93 Physical Review B, 2015, 92, .	3.2	32
22	Spin-liquid polymorphism in a correlated electron system on the threshold of superconductivity. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10316-10320.	7.1	28
23	High-energy continuum of magnetic excitations in the two-dimensional quantum antiferromagnet<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>Sr</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:m Physical Review B, 2014, 89, .	3.2	22
24	Mantidâ€”Data analysis and visualization package for neutron scattering and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0002.gif" overflow="scroll"><mml:mi mathvariant="normal">Î¼</mml:mi></mml:math> SR experiments. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 764, 156-166.	1.6	1,257
25	xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Mo<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mn>7</mml:mn>	3.2	62
26	Integrating Advanced Materials Simulation Techniques into an Automated Data Analysis Workflow at the Spallation Neutron Source. , 2014, , 297-308.		1
27	Structural and magnetic properties of the quantum<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></mml:m system Ba<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow		

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37	Muon spin rotation measurements of heterogeneous field response in overdoped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>La</mml:mtext></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>CuO4. Physical Review B, 2010, 81, .	3.2	12
38	Study of the Ground State Properties ofLiHoxY1âˆ’xF4Using Muon Spin Relaxation. Physical Review Letters, 2010, 105, 107203.	7.8	11
39	Superconducting state coexisting with a phase-separated static magnetic order in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mrow><mml:mo>(</mml:mo><mml:mrow><mml:mtext>Ba</mml:mtext></mml:mrow><mml:mo>,</mml:mo></mml:mrow></mml:math>K)Fe2As2from Muon Spin Relaxation. Physical Review B, 2009, 80, .	3.2	122
40	Neutron scattering evidence for isolated spin-12ladders in(C5D12N)2CuBr4. Physical Review B, 2009, 80, .	3.2	31
41	Effect of covalent bonding on magnetism and the missing neutron intensity in copper oxide compounds. Nature Physics, 2009, 5, 867-872.	16.7	112
42	Impurity-induced singlet breaking inSrCu2(BO3)2. Physical Review B, 2007, 76, .	3.2	11
43	Muon spin relaxation study of superconductingBi2Sr2âˆ’xLaxCuO6+Î´. Physical Review B, 2007, 75, .	3.2	32
44	Stripeless incommensurate magnetism in strongly correlated oxideLa1.5Sr0.5CoO4. Physical Review B, 2007, 75, .	3.2	21
45	Fincher-Burke spin excitations andï‰âˆ•Tscaling in insulatingLa1.95Sr0.05CuO4. Physical Review B, 2007, 76, .	3.2	5
46	Phase separation and suppression of critical dynamics at quantum phase transitions of MnSi and (Sr1âˆ’xCax)RuO3. Nature Physics, 2007, 3, 29-35.	16.7	150
47	Muon spin rotation study of. Physica B: Condensed Matter, 2006, 374-375, 263-266.	2.7	11
48	study of the â€œanti-glassâ€• Physica B: Condensed Matter, 2006, 374-375, 13-16.	2.7	8
49	Muon spin rotation study of field-induced magnetism in heavily overdoped. Physica B: Condensed Matter, 2006, 374-375, 211-214.	2.7	4
50	Deep muonium state in InSb: Recombination center vs. trapping center. Physica B: Condensed Matter, 2006, 374-375, 387-389.	2.7	0
51	2D KagomÃ© ordering in the 3D frustrated spinel Li2Mn2O4. Journal of Physics Condensed Matter, 2005, 17, 6469-6482.	1.8	17
52	Muon Spin Relaxation Studies of Magnetic-Field-Induced Effects in High-TcSuperconductors. Physical Review Letters, 2005, 95, 157001.	7.8	51
53	Expansion of vortex cores by strong electronic correlation inLa2âˆ’xSrxCuO4at low magnetic induction. Physical Review B, 2004, 69, .	3.2	22
54	Site-dilution in the quasi-one-dimensional antiferromagnetSr2(Cu1âˆ’xPdx)O3: Reduction of NÃ©el temperature and spatial distribution of ordered moment sizes. Physical Review B, 2004, 70, .	3.2	64

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55	Two-dimensional nature of superconductivity in the intercalated layered systemsLixHfNClandLixZrNCl:Muon spin relaxation and magnetization measurements. Physical Review B, 2004, 69, .	3.2	47
56	Unconventional superconductivity in (TMTSF)2ClO4. Physica B: Condensed Matter, 2003, 326, 378-380.	2.7	11
57	Magnetism and superconductivity in CeRh1â^'xIrxIn5 heavy fermion materials. Physica B: Condensed Matter, 2003, 326, 390-393.	2.7	12
58	Spin dynamics in the two-dimensional spin system SrCu2(BO3)2. Physica B: Condensed Matter, 2003, 326, 446-449.	2.7	7
59	$mu;SR studies of two-dimensional antiferromagnets CaV3O7 and SrV3O7. Physica B: Condensed Matter, 2003, 329-333, 717-718.	2.7	2
60	Large vortex core at low magnetic induction in La2â^'xSrxCuO4 probed by muon spin rotation. Physica C: Superconductivity and Its Applications, 2003, 388-389, 631-632.	1.2	0
61	Frustration-driven spin freezing in theS=12fcc perovskiteSr2MgReO6. Physical Review B, 2003, 68, .	3.2	100
62	Field Dependence of the Muon Spin Relaxation Rate in MnSi. Physical Review Letters, 2003, 90, 157201.	7.8	15
63	Muon Spin Relaxation and Susceptibility Studies of the Pure and Diluted Spin12KagomÃ©-Like Lattice System(CuxZn1â^'x)3V2O7(OH2)2H2O. Physical Review Letters, 2003, 91, 207603.	7.8	54
64	Muon spin relaxation studies of incommensurate magnetism and superconductivity in stage-4La2CuO4.11andLa1.88Sr0.12CuO4. Physical Review B, 2002, 66, .	3.2	130
65	Muon spin relaxation in the spin-ring systemCu3WO6:Quasistatic spin freezing at 7.0 K. Physical Review B, 2002, 65, .	3.2	5
66	Muon-spin-relaxation investigation of the spin dynamics of geometrically frustrated chromium spinels. Physical Review B, 2002, 66, .	3.2	51
67	An indirect synchronization of chaotic trajectories. Chaos, Solitons and Fractals, 2001, 12, 845-850.	5.1	3
68	Static magnetism in superconducting stage-4 La2CuO4+y(y=0.12). Physica B: Condensed Matter, 2000, 289-290, 338-342.	2.7	15