Niedermayer Ch

List of Publications by Year
in descending order

220 papers	8,609 citations	53939 47 h-index	54771 88 g-index

223 all docs	223 docs citations	223 times ranked	6742 citing authors

#	Article	IF	Citations
1	Crystal symmetry of stripe-ordered <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>La</mml:mi><mml:mrow><mml:mn>1.88</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> Physical Review B, 2022, 105, .	1.1	7
2	Classical Spin Liquid or Extended Critical Range in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>h</mml:mi></mml:math> - <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>YMnO</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> ?. Physical Review Letters, 2021, 126, 107203.	2.9	5
3	SINQâ€”Performance of the New Neutron Delivery System. Neutron News, 2021, 32, 37-43.	0.1	3
4	Revealing three-dimensional quantum criticality by Sr substitution in Han purple. Physical Review Research, 2021, 3, .	1.3	10
5	Metastable antiphase boundary ordering in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Ca</mml:mi><mml:msub><mml:mi>Fe</mml:mi><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2021, 104, .	1.1	8
6	The instrument suite of the European Spallation Source. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 957, 163402.	0.7	90
7	Metastable and localized Ising magnetism in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î±</mml:mi><mml:mo>â^’</mml:mo><mml:msub><mml:mi mathvariant="normal">CoV</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:math> magnetization plateaus. Physical Review B, 2020, 102, .	1.1	5
8	Multiple scattering camouflaged as magnetic stripes in single crystals of superconducting (La,Sr)2CuO4. Journal of Neutron Research, 2020, 22, 49-56.	0.4	1
9	Field-induced magnetic incommensurability in multiferroic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ni</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review B, 2020, 101, .	1.1	9
10	Magnetoelectric coupling without long-range magnetic order 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></mml:mfrac></mml:math> multiferroic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Rb</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn. Physical Review B, 2019, 99, .	1.1	9
11	Spin-wave directional anisotropies in antiferromagnetic Ba3NbFe3Si2O14. Physical Review B, 2019, 100, .	1.1	5
12	Dzyaloshinskii-Moriya interaction and the magnetic ground state in magnetoelectric<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>LiCoPO</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:math> Physical Review B, 2019, 99, .	1.1	12
13	Unique coexistence of incommensurate and commensurate magnetic order in TbMnO3 strained films. Physical Review Materials, 2019, 3, .	0.9	2
14	Magnetic ground state and magnon-phonon interaction in multiferroic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>h</mml:mi><mml:mtext>â^’</mml:mtext><mml:msub><mml:mi mathvariant="normal">YMnO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review B, 2018, 97, .	1.1	22
15	Prototype of the novel CAMEA conceptâ€”A backend for neutron spectrometers. Review of Scientific Instruments, 2018, 89, 015105.	0.6	6
16	Multiferroic phase diagram of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>E</mml:mi></mml:math> -type <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>R</mml:mi><mml:msub><mml:mi>MnO</mml:mi></mml:msub></mml:mrow></mml:math> films studied by neutron and x-ray diffraction. Physical Review B, 2018, 98, .	1.1	10
17	Doping effects of Cr on the physical properties of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>BaFe</mml:mi><mml:mrow><mml:mn>1.9</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> Physical Review B, 2018, 98, .	1.1	7
18	Field-induced magnetic instability within a superconducting condensate. Science Advances, 2017, 3, e1602055.	4.7	11

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19	Evaluation of HOPG mounting possibilities for multiplexing spectrometers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 858, 30-35.	0.7	4
20	Opening a nodal gap by fluctuating spin-density wave in lightly dopedLa2âˆ'xSrxCuO4. Physical Review B, 2017, 95, .	1.1	3
21	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>E</mml:mi></mml:math> -type noncollinear magnetic ordering in multiferroic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>o</mml:mi><mml:mo>â^'</mml:mo><mml:msub><mml:mi Physical Review B, 2017, 95, .	1.1	17
22	Tuning the multiferroic mechanisms of TbMnO3 by epitaxial strain. Scientific Reports, 2017, 7, 44753.	1.6	26
23	Absence of long-range order in the frustrated magnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>SrDy</mml:mi><mml:mn>2</mml:mn></ mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math> due to trapped defects from a dimensionality crossover. Physical Review B, 2017, 95, .	1.1	15
24	Magnetic order, hysteresis, and phase coexistence in magnetoelectric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>LiCoPO</mml:mi><mml:mn>4</mml:mn></mml:msub></ Physical Review B, 2017, 96, .	1.1	16
25	Single-axis-dependent structural and multiferroic properties of orthorhombic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>R</mml:mi><mml:mi>Mn</mml:mi><mml:msub><mml mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mrow><mml:mo>(</mml:mo><mml:mi>R</mml:mi>< Physical Review B, 2017, 95, .	1.1	25
26	Interplay of Fe and Tm moments through the spin-reorientation transition in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>TmFe</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2017, 96, .	1.1	17
27	Staging superstructures in high- Tc Sr/O codoped La2âˆ'xSrxCuO4+y. Physical Review B, 2017, 96, .	1.1	3
28	Orphan Spins in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>S</mml:mi><mml:mo>=</mml:mo><mml:mfrac><mml:mn>5</mml:mn><mml:mn>2</mml:mn></mml:mfrac Antiferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>CaFe</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mr mathvariant="normal">O</mml:mi></mml:mrow><mml:mrow><mml:mn>4</mml:mn></mml:mr. Physical Review Letters, 2017, 119, 257204.	2.9	11
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30	Coexisting multiple order parameters in single-layer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>LuMn</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>films. Physical Review B, 2016, 94, .	1.1	6
31	Distinct magnetic phases in structurally uniformSrCoO3âˆ'y. Physical Review B, 2016, 93, .	1.1	6
32	Solitary Magnons in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>S</mml:mi><mml:mo>=</mml:mo><mml:mfrac><mml:mn>5</mml:mn><mml:mn>2</mml:mn></mml:mfrac xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>CaFe</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mr mathvariant="normal">O</mml:mi></mml:mrow><mml:mrow><mml:mn>4</mml:mn></mml:mr. Physical Review Letters, 2016, 117, 017201.	2.9	25
33	Experimental characterization of a prototype secondary spectrometer for vertically scattering multiple energy analysis at cold-neutron triple axis spectrometers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 830, 338-344.	0.7	9
34	Stress-induced magnetic domain selection reveals a conical ground state for the multiferroic phase ofMn2GeO4. Physical Review B, 2016, 94, .	1.1	3
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38	Competing superconducting and magnetic order parameters and field-induced magnetism in electron-dopedBa(Fe1â^'xCox)2As2. Physical Review B, 2015, 91, .	1.1	9
39	Structural and Magnetic Phase Transitions near Optimal Superconductivity in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:msub><mml:mrow><mml:mi>BaFe</mml:mi></mml:mrow><mml:mrow>		

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55	Field-induced criticality in a gapped quantum magnet with bond disorder. Physical Review B, 2012, 85, .	1.1	44
56	New Perspectives for Cuprate Research: (Ca x La1â^'x)(Ba1.75â^'x La0.25+x)Cu3O y Single Crystals. Journal of Superconductivity and Novel Magnetism, 2012, 25, 2331-2335.	0.8	9
57	Depth-dependent Spin Dynamics in TbMnO3 Thin Films Measured by Low Energy Muon Spin Relaxation. Physics Procedia, 2012, 30, 137-141.	1.2	5
58	Neutron diffraction study of spin and charge ordering in SrFeO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn><mml:mo>â^'</mml:mo><mml:mi>Î´</mml:mi></mml:mrow></mml:msub></mml:math>. Physical Review B, 2012, 85, .	1.1	76
59	Strain and lattice distortion in (110)-epitaxial orthorhombic TbMnO3 multiferroic thin films grown by pulsed laser deposition. Applied Surface Science, 2012, 258, 9323-9325.	3.1	7
60	Magnetic phase diagram of magnetoelectric LiMnPO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>4</mml:mn></mml:msub></mml:math>. Physical Review B, 2012, 85, .	1.1	47
61	Coupling of Magnetic and Ferroelectric Hysteresis by a Multicomponent Magnetic Structure in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Mn</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>GeO</mml:mi><mml:mi>m</mml:mi></mml:msub></mml:math>. Physical Review Letters, 2012, 108, 077204.	2.9	42
62	Magnetic Field-Induced Closure of the Spin Excitation Gap near Optimal Doping in La2-xSrxCuO4. Journal of the Physical Society of Japan, 2011, 80, SB030.	0.7	1
63	Analysing neutron scattering data using McStas virtual experiments. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 634, S138-S143.	0.7	22
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65	Low-energy quasi-one-dimensional spin dynamics in charge-ordered La2â^'xSrxNiO4. Physical Review B, 2011, 83, .	1.1	6
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68	Coexistence and Competition of Magnetism and Superconductivity on the Nanometer Scale in Underdoped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>BaFe</mml:mi><mml:mn>1.89</mml:mn></mml:msub><mml:msub><mml:mi>Co</mml:mi><mml:mi>m</mml:mi></mml:msub></mml:math>. Physical Review Letters, 2010, 105, 057001.	2.9	68
69	Publisherâ€™s Note: Exploring the Fragile Antiferromagnetic Superconducting Phase in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>CeCoIn</mml:mi><mml:mn>5</mml:mn></mml:msub></mml:math> [Phys. Rev. Lett.105, 187001 (2010)]. Physical Review Letters, 2010, 105, .	2.9	0
70	Exploring the Fragile Antiferromagnetic Superconducting Phase in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>CeCoIn</mml:mi><mml:mn>5</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2010, 105, 187001.	2.9	30
71	Magnetic ordering in electronically phase-separatedLa2â^'xSrxCuO4+y: Neutron diffraction experiments. Physical Review B, 2009, 80, .	1.1	8
72	Magnetic-Field-Induced Soft-Mode Quantum Phase Transition in the High-Temperature Superconductor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>La</mml:mi><mml:mn>1.855</mml:mn></mml:msub><mml:msub><mml:mi>Sr</mml:mi><mml:mm</mml:math>. An Inelastic Neutron-Scattering Study. Physical Review Letters, 2009, 102, 177006.	2.9	49

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73	Anomalous spin waves and the commensurate-incommensurate magnetic phase transition in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>LiNiPO</mml:mtext></mml:mrow><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2009, 79, .	3.7	30
74	Field-induced magnetic phases and electric polarization in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>LiNiPO</mml:mtext></mml:mrow><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2009, 79, .	3.7	51
75	Two-Gap Superconductivity in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Ba</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="bold">K</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:msub><mml:mi>Fe</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>As</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>: A Complementary Study of the Magnetic Penetration Depth by Muon-Spin Rotation and Angle-Re. Physical Review Letters, 2009, 102, 117005.	7.6	105
76	Muon spin rotation study of magnetism and superconductivity in BaFe<sub>2â^'_xCo_xAs₂and Pr<sub>1â^'_xSr_xFeAsO. New Journal of Physics, 2009, 11, 055050.	1.2	42
77	Momentum-resolved superconducting gap in the bulk of Ba_{1â^'x}K_xFe₂As₂from combined ARPES and Î¼SR measurements. New Journal of Physics, 2009, 11, 055069.	1.2	124
78	Giant superconductivity-induced modulation ofÂtheÂferromagnetic magnetization in a cuprateâ€“manganite superlattice. Nature Materials, 2009, 8, 315-319.	13.3	95
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81	Suppression of the structural phase transition and lattice softening in slightly underdopedBa1â^'xKxFe2As2with electronic phase separation. Physical Review B, 2009, 79, .	3.7	37
82	PNR Studies of Proximity and Coupling Effects in YBa2Cu3O7/La2/3Ca1/3MnO3Superlattices. Neutron News, 2009, 20, 13-16.	0.1	0
83	Magnetic-Field-Enhanced Incommensurate Magnetic Order in the Underdoped High-Temperature Superconductor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>YBa</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Cu</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="bold">O</mml:mi><mml:mn>6.45</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2008, 101, 017001.	7.6	98
84	Coupled Superconducting and Magnetic Order in CeCoIn ₅. Science, 2008, 321, 1652-1654.	6.0	299
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86	Tuning competing orders in<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> superconductors by the application of an external magnetic. Physical Review B, 2008, 78, .	3.7	208
87	Publisher's Note: Flux pinning and phase separation in oxygen-rich<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>. Physical Review B, 2008, 78, .	3.7	0
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