

Alan Goldman

List of Publications by Year in descending order

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70
papers

3,846
citations

136885

32
h-index

118793

62
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70
all docs

70
docs citations

70
times ranked

3438
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic ordering and structural distortion in a PrFeAsO single crystal studied by neutron and x-ray scattering. Physical Review B, 2021, 103, .	1.1	1
2	A neutron diffraction demonstration of long-range magnetic order in the quasicrystal approximant DyCd6. AIP Advances, 2019, 9, .	0.6	6
3	Magnetic structure of Nd in NdFeAsO studied by x-ray resonant magnetic scattering. Physical Review B, 2019, 100, .	1.1	3
4	Aperiodic order coming of age: from inorganic materials to dynamic protein superstructures. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, 212-213.	0.0	1
5	Hedgehog spin-vortex crystal stabilized in a hole-doped iron-based superconductor. Npj Quantum Materials, 2018, 3, .	1.8	85
6	Using controlled disorder to probe the interplay between charge order and superconductivity in NbSe2. Nature Communications, 2018, 9, 2796.	5.8	81
7	Pressure-induced half-collapsed-tetragonal phase in CaFe_2As_2 . Physical Review B, 2017, 96, .		
8	Superelasticity and cryogenic linear shape memory effects of CaFe_2As_2 . Nature Communications, 2017, 8, 1083.	5.8	22
9	Itinerant G-type antiferromagnetic order in SrCr_2As_2 . Physical Review B, 2017, 96, .		
10	Collapsed tetragonal phase transition in LaRu_2P_2 . Physical Review B, 2017, 96, .	1.1	10
11	The solidification of AlPdMn studied by high-energy X-ray diffraction from electrostatically levitated samples. Zeitschrift Fur Kristallographie - Crystalline Materials, 2017, 232, 619-627.	0.4	0
12	Electrostatic levitation facility optimized for neutron diffraction studies of high temperature liquids at a spallation neutron source. Review of Scientific Instruments, 2016, 87, 013904.	0.6	22
13	Measurements of structural and chemical order in Zr_3P_2 . Physical Review B, 2016, 93, 014411.	1.1	26
14	Spin dynamics near a putative antiferromagnetic quantum critical point in Cu-substituted BaFe_2As_2 and its relation to high-temperature superconductivity. Physical Review B, 2015, 92, .		
15	Magnetic and transport properties of Ba_2FeAs_2 . Physical Review B, 2015, 92, 014411.	2.9	30
16	Magnetic and transport properties of $\text{R}_2\text{-Cd}$ icosahedral quasicrystals. Physical Review B, 2014, 90, .	1.1	27
17	Charge order and its connection with Fermi-liquid charge transport in a pristine high-Tc cuprate. Nature Communications, 2014, 5, 5875.	5.8	259
18	Magnetism in icosahedral quasicrystals: current status and open questions. Science and Technology of Advanced Materials, 2014, 15, 044801.	2.8	46

#	ARTICLE	IF	CITATIONS
19	Crystallography and physical properties of BaCo_2As_2 , $\text{Ba}_{0.94}\text{K}_{0.06}\text{Co}_2\text{As}_2$, and $\text{Ba}_{0.78}\text{K}_{0.22}\text{Co}_2\text{As}_2$. Physical Review B, 2014, 90, .	1.1	25
20	Complex magnetic ordering in CeGe_2 studied by neutron diffraction. Physical Review B, 2014, 90, . Spin polarization of Ru in superconducting $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$. Physical Review B, 2014, 90, .	1.1	1
21	Crystal and magnetic structure of CaCo_2 .	1.1	7
22	Crystallographic, electronic, thermal, and magnetic properties of single-crystal SrCo_2 . Physical Review B, 2011, 84, .	1.1	47
23	Inelastic Neutron Scattering Study of a Nonmagnetic Collapsed Tetragonal Phase in Nonsuperconducting CaFe_2As_2 .	1.1	67
24	Evidence of the Impact of Spin Fluctuations on Superconductivity in the Iron-Arsenide Compounds. Physical Review Letters, 2013, 111, 227002.	1.1	43
25	Reply to "Comment on 'Rapid chemical and topological ordering in supercooled liquid CuZr '".	1.1	9
26	Competition between stripe and checkerboard magnetic instabilities in CuZr .	1.1	1
27	Control of magnetic, nonmagnetic, and superconducting states in iron-based $\text{Ca}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ superconductors. Physical Review B, 2012, 86, .	1.1	44
28	Antiferromagnetic order in the quasicrystal approximant CdTb .	1.1	50
29	Character of the structural and magnetic phase transitions in the parent and electron-doped BaFe_2As_2 . Physical Review B, 2012, 85, .	1.1	28
30	Fe K-edge X-ray resonant magnetic scattering from $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ superconductors. European Physical Journal: Special Topics, 2012, 208, 157-164.	1.2	1
31	Magnetic order in GdBiPt studied by x-ray resonant magnetic scattering. Physical Review B, 2011, 84, .	1.1	27
32	Short- and medium-range order in ZrPt .	1.1	89
33	Character of the structural and magnetic phase transitions in the parent and electron-doped BaFe_2As_2 .	1.1	75
34	Final phase in CaFe_2As_2 .	1.1	132
35	Antiferromagnetic ordering in the absence of structural distortion in Ba .	1.1	81
36	Physical Review B, 2010, 82, .	1.1	87

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37	Dispersion of the superconducting spin resonance in underdoped and antiferromagnetic $\text{BaFe}_{2-x}\text{Co}_x\text{As}_2$ crystals. Physical Review B, 2010, 81, .	2.1	30
38	Paramagnetic spin correlations in $\text{CaFe}_{2-x}\text{Co}_x\text{As}_2$ crystals. Physical Review B, 2010, 81, .	2.1	34
39	Synthesis, structure, and properties of tetragonal $\text{CaFe}_{2-x}\text{Co}_x\text{As}_2$		

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55	Crystallographic phase transition within the magnetically ordered state of Ce ₂ Fe ₁₇ . Physical Review B, 2007, 76, .	1.1	36
56	X-ray resonant magnetic scattering and x-ray magnetic circular dichroism branching ratios, L ₃ •L ₂ , for heavy rare earths. Journal of Applied Physics, 2005, 97, 10A311.	1.1	8
57	Magnetic structure of Gd ₅ Ge ₄ . Physical Review B, 2005, 71, .	1.1	59
58	X-ray magnetic circular dichroism study of TbNi ₂ B ₂ C. Physical Review B, 2001, 64, .	1.1	9
59	Effects of Band Filling on Magnetic Structures: The Case of RNi ₂ Ge ₂ . Physical Review Letters, 1999, 83, 2817-2820.	2.9	19
60	New high temperature furnace for structure refinement by powder diffraction in controlled atmospheres using synchrotron radiation. Review of Scientific Instruments, 1999, 70, 3554-3561.	0.6	51
61	On the growth of icosahedral Al-Pd-Mn quasicrystals from the ternary melt. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1999, 79, 1673-1684.	0.6	43
62	HORIZONS IN QUASICRYSTAL RESEARCH. Series on Directions in Condensed Matter Physics, 1999, , 561-601.	0.1	0
63	On the growth of icosahedral Al-Pd-Mn quasicrystals from the ternary melt. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1999, 79, 1673-1684.	0.6	2
64	Growth of large-grain R-Mg-Zn quasicrystals from the ternary melt (R = Y, Er, Ho, Dy and Tb). The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1998, 77, 1601-1615.	0.6	100
65	LiV ₂ O ₄ : A Heavy Fermion Transition Metal Oxide. Physical Review Letters, 1997, 78, 3729-3732.	2.9	453
66	Microscopic coexistence of magnetism and superconductivity in ErNi ₂ B ₂ C. Nature, 1996, 382, 236-238.	13.7	137
67	Circular magnetic x-ray dichroism in rare-earth magnets. Journal of Applied Physics, 1994, 75, 6366-6368.	1.1	5
68	Magnetic Structures in RNi ₂ B ₂ C (R = Ho, Er) Superconductors. Materials Research Society Symposia Proceedings, 1994, 376, 559.	0.1	0
69	Crystalline Phases During the Melting of Bi ₂ Sr ₂ CaCu ₂ O _x . Materials Research Society Symposia Proceedings, 1991, 249, 175.	0.1	0
70	In situ x-ray investigation of the melting of Bi-Sr-Ca-Cu-O phases. Applied Physics Letters, 1991, 59, 3640-3642.	0.1	86