

Jens Jensen

List of Publications by Year in descending order

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304743

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36
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85
all docs

85
docs citations

85
times ranked

959
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum Phase Transition of a Magnet in a Spin Bath. <i>Science</i> , 2005, 308, 389-392.	12.6	111
2	Electronic heat capacity of the rare-earth metals. <i>Physical Review B</i> , 1983, 27, 4085-4094.	3.2	101
3	Magnetic excitations in praseodymium. <i>Physical Review B</i> , 1979, 20, 1105-1118.	3.2	96
4	Diffraction studies of rare earth metals and superlattices. <i>Physica B: Condensed Matter</i> , 1989, 159, 93-105.	2.7	74
5	Helifan: A new type of magnetic structure. <i>Physical Review Letters</i> , 1990, 64, 2699-2702.	7.8	72
6	Spin waves in triple-q \uparrow structures. Application to USb. <i>Physical Review B</i> , 1981, 23, 6180-6183.	3.2	52
7	Spin waves in terbium. I. Two-ion magnetic anisotropy. <i>Physical Review B</i> , 1975, 12, 303-319.	3.2	49
8	Magnetic structures and interactions in erbium. <i>Journal of Physics Condensed Matter</i> , 1992, 4, 9673-9696.	1.8	46
9	Interdependence of Magnetism and Superconductivity in the Borocarbide TmNi ₂ B ₂ C. <i>Physical Review Letters</i> , 2000, 84, 4982-4985.	7.8	42
10	Magnetic excitations near the quantum phase transition in the Ising ferromagnet LiHoF ₄ . <i>Physical Review B</i> , 2007, 75, .	3.2	41
11	Molecular field calculation of the magnetic structure in erbium. <i>Journal of Physics F: Metal Physics</i> , 1976, 6, 1145-1159.	1.6	40
12	Magnetic excitations in commensurable periodic structures. <i>Physical Review Letters</i> , 1987, 59, 712-715.	7.8	37
13	Electrical resistivity of the singlet-ground-state system TbcY _{1-x} cSb. <i>Physical Review B</i> , 1980, 21, 189-202.	3.2	36
14	Spin waves in terbium. III. Magnetic anisotropy at zero wave vector. <i>Physical Review B</i> , 1975, 12, 332-344.	3.2	33
15	Theory of commensurable magnetic structures in holmium. <i>Physical Review B</i> , 1996, 54, 4021-4032.	3.2	31
16	Spin waves in terbium. II. Magnon-phonon interaction. <i>Physical Review B</i> , 1975, 12, 320-331.	3.2	30
17	Magnetoresistance and magnetization study of thulium. <i>Physical Review B</i> , 1998, 57, 8416-8423.	3.2	27
18	Magnetic Raman scattering of the ordered tetrahedral spin- $\frac{1}{2}$ clusters in Cu ₂ Te ₂ O ₅ (Br _{1-x} Cl _x) ₂ compounds. <i>Europhysics Letters</i> , 2003, 64, 689-695.	2.0	27

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19	High-field magnetic phase transitions and spin excitations in magnetoelectric LiNiPO. Physical Review B, 2011, 84, .	3.2	27
20	Spin waves, phonons, and crystal-field excitations in thulium. Physical Review B, 1991, 43, 3298-3310.	3.2	26
21	Neutron spectroscopic study of crystal field excitations and the effect of the crystal field on dipolar magnetism in LiNiPO . Physical Review B, 2017, 95, .	3.2	26
22	Magnetic properties of the HoY1-cSb system. Journal of Physics C: Solid State Physics, 1980, 13, 213-231.	1.5	24
23	Dipolar broadening of $1/2$ NMR spectra of solids. Physical Review B, 1995, 52, 9611-9619.	3.2	24
24	Novel magnetic phases in holmium. Journal of Magnetism and Magnetic Materials, 1992, 104-107, 1481-1484.	2.3	23
25	Anisotropic exchange interaction in the conical magnetic phase of erbium. Journal of Physics F: Metal Physics, 1974, 4, 1065-1072.	1.6	22
26	Magnetic excitations in the longitudinally polarized antiferromagnetic phase of praseodymium. Physical Review B, 1987, 35, 3327-3340.	3.2	22
27	Title is missing!. Journal of Physics C: Solid State Physics, 1975, 8, 2769-2780.	1.5	21
28	Mean-field model of the ferromagnetic ordering in the superconducting phase of $\text{ErNi}_2\text{B}_2\text{C}$. Physical Review B, 2002, 65, .	3.2	21
29	Field-induced reentrant magnetoelectric phase in LiNiPO . Physical Review B, 2017, 95, .	3.2	19
30	Coupling between the magnetic excitations and the phonons in praseodymium. Journal of Physics C: Solid State Physics, 1976, 9, 111-127.	1.5	17
31	Field-induced magnetic phases in the normal and superconducting states of $\text{ErNi}_2\text{B}_2\text{C}$. Physical Review B, 2004, 69, .	3.2	17
32	Chiral spin-wave excitations of the spin- $5/2$ trimers in the langasite compound $\text{Ba}_3\text{NbFe}_3\text{O}_{13}$. Physical Review B, 2017, 95, .	3.2	17
33	Non-Planar Magnetic Structures and Trigonal Interactions in Erbium. Europhysics Letters, 1993, 21, 705-710.	2.0	16
34	Magnetic excitations in the dipole-coupled singlet-singlet system HoF_3 . Journal of Physics Condensed Matter, 1994, 6, 505-522.	1.8	16
35	Magnetic excitations in rare earth systems. Journal of Magnetism and Magnetic Materials, 1982, 29, 47-58.	2.3	14
36	Magnetic double- q ordering of tetragonal $\text{Gd}_2\text{Ni}_2\text{B}_2$. Physical Review B, 2017, 95, .	3.2	14

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37	Spin fluctuations in a spin-1 paramagnet with easy-planar anisotropy: Application to praseodymium. Journal of Physics C: Solid State Physics, 1982, 15, 2403-2415.	1.5	13
38	Static and dynamic Jahn-Teller effects and antiferromagnetic order in PrO_2 . https://arxiv.org/abs/1908.02077	3.2	13
39	Mean-field analysis of the magnetic phase diagram of Ni_2B . https://arxiv.org/abs/1908.02077	3.2	12
40	1/z renormalization of the mean-field behavior of the dipole-coupled singlet-singlet system HoF_3 . Physical Review B, 1994, 49, 11833-11841.	3.2	11
41	Phonon-induced quadrupolar ordering of the magnetic superconductor $\text{TmNi}_2\text{B}_2\text{C}$. Physical Review B, 2006, 73, .	3.2	11
42	Anomalous Magnetic Excitations of Cooperative Tetrahedral Spin Clusters. Physical Review Letters, 2009, 102, 177202.	7.8	11
43	Interacting spin-1 tetrahedral system Cu_2O . Physical Review B, 2009, 79, .	3.2	11
44	PHYSICS OF RARE-EARTHS. The magnetism of praseodymium. Journal De Physique Colloque, 1979, 40, C5-1-C5-7.	0.2	10
45	Pressure-dependent resistivity and magnetoresistivity of erbium. Physical Review B, 2000, 61, 6790-6797.	3.2	10
46	Lineshape of the singlet-triplet excitations in the dimer system $\text{Sr}_3\text{Cr}_2\text{O}_8$ to first order in the high-density $1/z$ expansion. Physical Review B, 2014, 89, .	3.2	10
47	Comment on the Two-Ion Anisotropy in the Heavy-Rare-Earth Metals. Physical Review Letters, 1976, 37, 951-954.	7.8	9
48	Magnetic effects on the elastic constants of praseodymium. Journal of Physics C: Solid State Physics, 1978, 11, 2465-2473.	1.5	9
49	CPA ϵ Calculation of the paramagnetic excitations in $\text{Pr} + 5\% \text{Nd}$. Journal of Magnetism and Magnetic Materials, 1979, 14, 224-226.	2.3	9
50	The coherent potential approximation and the diagrammatic $1/Z$ expansion for an anisotropic spin-1 paramagnet. Journal of Physics C: Solid State Physics, 1984, 17, 5367-5384.	1.5	9
51	New mode of magnetic excitation in praseodymium. Physical Review Letters, 1994, 72, 3104-3107.	7.8	9
52	Field dependence of the elastic constant c_{66} in the basal-plane ferromagnet terbium. Journal of Physics C: Solid State Physics, 1979, 12, 4573-4584.	1.5	7
53	The nuclear heat capacity of HoF_3 . Journal of Physics Condensed Matter, 1994, 6, L215-L219.	1.8	7
54	Spin excitations and quantum criticality in the quasi-one-dimensional Ising-like ferromagnet CoCl_2 . Physical Review B, 2017, 96, .	3.2	7

#	ARTICLE	IF	CITATIONS
55	Two- and single-ion magnetic anisotropy in the rare-earth metals. Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics, 1977, 86-88, 32-37.	0.9	6
56	Magnetic structures and excitations in rare earth metals: old problems and new solutions. Physica B: Condensed Matter, 1992, 180-181, 1-6. Self-consistent theory for the paramagnetic properties of $TiCuCl_3$	2.7	6
57	$\frac{1}{z} \sum_{\langle ij \rangle} \langle S_i^z S_j^z \rangle$ to first order in the high-density expansion	3.2	6
58	SPIN WAVES IN THE MAGNETIC STRUCTURES OF HOLMIUM. Journal De Physique Colloque, 1988, 49, C8-351-C8-352.	0.2	6
59	Magnetic Bloch oscillations and domain wall dynamics in a near-Ising ferromagnetic chain. Nature Communications, 2022, 13, 2547.	12.8	6
60	Rotational invariance and dipolar magnetoelastic effects: Application to TmSb. Physical Review B, 1988, 37, 9495-9503.	3.2	5
61	Spin waves in the ferromagnetic phase of thulium. Journal of Magnetism and Magnetic Materials, 1995, 140-144, 767-768.	2.3	5
62	Phasons, amplitude modes, and spin waves in the amplitude-modulated magnetic phase of PrNi ₂ Si ₂ . Physical Review B, 2013, 87, .	3.2	5
63	Impurity mode dynamics of dilute erbium in praseodymium. Journal of Magnetism and Magnetic Materials, 1988, 76-77, 399-400.	2.3	4
64	Spin waves in the ferrimagnetic and ferromagnetic phases of thulium. Physica B: Condensed Matter, 1992, 180-181, 158-160. Magnetic ordering in $CdNi_2$	2.7	4
65	$B^2 C$ revisited by resonant x-ray scattering: Evidence for the double- q model. Physical Review B, 2013, 88, .	3.2	4
66	Magnetic properties of the dipole-coupled singlet-singlet system HoF ₃ . Journal of Magnetism and Magnetic Materials, 1995, 140-144, 1191-1192.	2.3	3
67	Multiple magnetic singlet-singlet excitations in intermetallic PrNiSn. Physical Review B, 2006, 73, .	3.2	3
68	Bose-Einstein condensation and the magnetically ordered state of $TiCuCl_3$. Physical Review B, 2009, 80, .	3.2	3
69	Magnetoelastic phase diagram of $TbNi_2$. Physical Review B, 2018, 97, .	3.2	3
70	Crystalline electric field effects in dilute alloys of rare earth metals. Journal of Magnetism and Magnetic Materials, 1988, 71, 279-284.	2.3	2
71	Magnetic phase diagram of ErNi ₂ B ₂ C. Physica C: Superconductivity and Its Applications, 2004, 408-410, 97-99.	1.2	2
72	Dispersive crystal field excitations and quadrupolar interactions in UPd ₃ . Journal of Physics Condensed Matter, 2012, 24, 036002.	1.8	2

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73	Phase diagram of diluted Ising ferromagnet $\text{LiHo}_x\text{Y}_{1-x}\text{F}_4$. Physical Review B, 2016, 94, .	3.2	2
74	Comprehensive cluster-theory analysis of the magnetic structures and excitations in $\text{CoCl}_2\text{H}_2\text{O}$. Physical Review B, 2018, 97, .	3.2	2
75	Threefold Symmetric Magnetic Two-Ion Coupling in hcp Rare-Earth Metals. Acta Physica Polonica A, 1997, 91, 89-103.	0.5	2
76	Magnetic excitations in praseodymium alloys. Physica B: Condensed Matter, 1995, 213-214, 324-326.	2.7	1
77	Crystal fields and conduction electrons in praseodymium. Journal of Magnetism and Magnetic Materials, 1995, 140-144, 735-738.	2.3	1
78	Magnetic phase diagram of $\text{Ho}_x\text{Tm}_{1-x}$ alloys. Physical Review B, 2000, 62, 14943-14949.	3.2	1
79	Free energy analysis of the magnetic and superconducting phases in thulium borocarbide. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E177-E178.	2.3	1
80	AC Losses in $\text{Bi}_2\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10+x}$ Tapes and a 3.15-m-Long Single-Phase Cable. IEEE Transactions on Applied Superconductivity, 2011, 21, 3599-3603.	1.7	1
81	Excitations of neodymium ions in praseodymium. Journal of Magnetism and Magnetic Materials, 1983, 31-34, 601-602.	2.3	0
82	The magnetic structures of $\text{Ho}_x\text{Tm}_{1-x}$ thin film alloys. Journal of Magnetism and Magnetic Materials, 2001, 226-230, 1174-1176.	2.3	0
83	Magnetic and quadrupolar ordering in $\text{TmNi}_2\text{B}_2\text{C}$. Physica B: Condensed Matter, 2006, 385-386, 63-65.	2.7	0
84	Low-energy spin-wave excitations in amplitude-modulated magnetic structure of PrNi_2Si_2 . Journal of Physics: Conference Series, 2015, 663, 012010.	0.4	0
85	SPIN DYNAMICS OF THULIUM IONS IN TERBIUM. Journal De Physique Colloque, 1988, 49, C8-331-C8-332.	0.2	0