

Marek Cinal

List of Publications by Year in descending order

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docs citations

35
times ranked

616
citing authors

#	ARTICLE	IF	CITATIONS
1	Gilbert damping in magnetic layered systems. Physical Review B, 2014, 90, .	3.2	108
2	Magnetocrystalline anisotropy in ferromagnetic films. Physical Review B, 1994, 50, 3754-3760.	3.2	74
3	Origin of magnetocrystalline anisotropy oscillations in (001) face-centred-cubic Co thin films and effect of sp ^d hybridization. Journal of Physics Condensed Matter, 2003, 15, 29-46.	1.8	37
4	Oscillatory magnetic anisotropy due to quantum well states in thin ferromagnetic films (invited). Journal of Applied Physics, 2012, 111, 07C102.	2.5	30
5	Magnetocrystalline anisotropy in Co/Pd structures. Physical Review B, 1997, 55, 3636-3648.	3.2	29
6	Oscillations of the Orbital Magnetic Moment due to d -Band Quantum Well States. Physical Review Letters, 2014, 113, 067203.	7.8	27
7	Exact and approximate exchange potentials investigated in terms of their matrix elements with the Kohn-Sham orbitals. Physical Review A, 2005, 72, .	2.5	20
8	Calculation of Gilbert damping in ferromagnetic films. EPJ Web of Conferences, 2013, 40, 18003.	0.3	20
9	Magnetocrystalline anisotropy in (110) fcc cobalt films. Journal of Magnetism and Magnetic Materials, 1995, 140-144, 681-682.	2.3	19
10	Quantum-well states and magnetocrystalline anisotropy in Co/Pd structures. Physical Review B, 1998, 57, 100-103.	3.2	19
11	Analysis of magnetocrystalline anisotropy oscillations in Co/Pd thin films. Journal of Physics Condensed Matter, 2001, 13, 901-916.	1.8	19
12	Gilbert damping in binary magnetic multilayers. Physical Review B, 2017, 95, .	3.2	15
13	Energy functionals in momentum space: Exchange energy, quantum corrections, and the Kohn-Sham scheme. Physical Review A, 1993, 48, 1893-1902.	2.5	13
14	Effect of quantum well states in Cu overlayer on magnetic anisotropy of Fe and Co films revisited. Physical Review B, 2013, 87, .	3.2	13
15	Highly accurate numerical solution of Hartree-Fock equation with pseudospectral method for closed-shell atoms. Journal of Mathematical Chemistry, 2020, 58, 1571-1600.	1.5	13
16	Magnetic anisotropy of vicinal (001) fcc Co films: Role of crystal splitting and structure relaxation in the step-decoration effect. Physical Review B, 2006, 73, .	3.2	12
17	Comment on "Critique of the foundations of time-dependent density-functional theory". Physical Review A, 2008, 78, .	2.5	9
18	Magnetic anisotropy and orbital magnetic moment in Co films and bilayers (T_j ETQq0 0 0 rgBT /Overlock 10 Tf 50 57 Td)		

#	ARTICLE	IF	CITATIONS
19	Noniterative accurate algorithm for the exact exchange potential of density-functional theory. <i>Physical Review A</i> , 2007, 76, .	2.5	7
20	Calculated magnetocrystalline anisotropy of decorated and undecorated steps on fcc Co(001). <i>Surface Science</i> , 2001, 493, 744-747.	1.9	6
21	Direct mapping between exchange potentials of Hartree-Fock and Kohn-Sham schemes as origin of orbital proximity. <i>Journal of Chemical Physics</i> , 2010, 132, 014101.	3.0	5
22	Quantum mechanism of nonlocal Gilbert damping in magnetic trilayers. <i>Physical Review B</i> , 2015, 91, .	3.2	5
23	Dependence of surface screening in semiconductors on the short-range properties of the bulk dielectric function. <i>Solid State Communications</i> , 1987, 62, 633-635.	1.9	4
24	Thomas-Fermi-Scott model in momentum space. <i>Physical Review A</i> , 1992, 45, 135-139.	2.5	4
25	Canted stripe phase evolution due to a spin reorientation transition in Fe films grown on Ag(001) vicinal surface. <i>Physical Review B</i> , 2016, 93, .	3.2	4
26	Fine-tuning of canted magnetization in stepped Fe films through thickness variation, Au capping, and quantum confinement. <i>Physical Review B</i> , 2019, 99, .	3.2	4
27	Magnetic Atoms in Metallic Compounds Approached on the Basis of the Quantum-Statistical ab Initio Theory. <i>Physica Status Solidi (B): Basic Research</i> , 1986, 138, K17.	1.5	2
28	Correlation energy of the free-electron pair in the second-order perturbation theory. <i>Journal of Chemical Physics</i> , 1993, 98, 1262-1270.	3.0	2
29	Exact exchange potential evaluated from occupied Kohn-Sham and Hartree-Fock solutions. <i>Physical Review A</i> , 2011, 83, .	2.5	2
30	Quantum-Statistical Approach to Elastic Constants in Metals Influenced by Magnetization. <i>Physica Status Solidi (B): Basic Research</i> , 1988, 148, 699-707.	1.5	1
31	Electron-spin polarization in the Thomas-Fermi and Thomas-Fermi-Dirac atoms. <i>Physical Review A</i> , 1991, 44, 5434-5447.	2.5	1
32	Comment on "Depurated inversion method for orbital-specific exchange potentials". <i>International Journal of Quantum Chemistry</i> , 2020, 120, e26101.	2.0	1
33	Correlation effects in a few-particle one-dimensional Coulomb-interacting system. <i>Theoretica Chimica Acta</i> , 1996, 95, 165-200.	0.8	0
34	Correlation effects in a few-particle one-dimensional Coulomb-interacting system. <i>Theoretica Chimica Acta</i> , 1997, 95, 165.	0.8	0