

Marek Cinal

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Magnetic anisotropy and orbital magnetic moment in Co films and bilayers (T_j)	0.784314	1
2	Comment on "Depurated inversion method for orbital-specific exchange potentials". International Journal of Quantum Chemistry, 2020, 120, e26101.	2.0	1
3	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
4	Fine-tuning of canted magnetization in stepped Fe films through thickness variation, Au capping, and quantum confinement. Physical Review B, 2019, 99, .	3.2	4
5	Gilbert damping in binary magnetic multilayers. Physical Review B, 2017, 95, .	3.2	15
6	Canted stripe phase evolution due to a spin reorientation transition in Fe films grown on Ag(001) vicinal surface. Physical Review B, 2016, 93, .	3.2	4
7	Quantum mechanism of nonlocal Gilbert damping in magnetic trilayers. Physical Review B, 2015, 91, .	3.2	5
8	Oscillations of the Orbital Magnetic Moment due to d-Band Quantum Well States. Physical Review Letters, 2014, 113, 067203.	7.8	27
9	Gilbert damping in magnetic layered systems. Physical Review B, 2014, 90, .	3.2	108
10	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
11	Calculation of Gilbert damping in ferromagnetic films. EPJ Web of Conferences, 2013, 40, 18003.	0.3	20
12	Oscillatory magnetic anisotropy due to quantum well states in thin ferromagnetic films (invited). Journal of Applied Physics, 2012, 111, 07C102.	2.5	30
13	Exact exchange potential evaluated from occupied Kohn-Sham and Hartree-Fock solutions. Physical Review A, 2011, 83, .	2.5	2
14	Direct mapping between exchange potentials of Hartree-Fock and Kohn-Sham schemes as origin of orbital proximity. Journal of Chemical Physics, 2010, 132, 014101.	3.0	5
15	Comment on "Critique of the foundations of time-dependent density-functional theory". Physical Review A, 2008, 78, .	2.5	9
16	Noniterative accurate algorithm for the exact exchange potential of density-functional theory. Physical Review A, 2007, 76, .	2.5	7
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Origin of magnetocrystalline anisotropy oscillations in (001) face-centred-cubic Co thin films and effect of sp ³ d hybridization. <i>Journal of Physics Condensed Matter</i> , 2003, 15, 29-46.	1.8	37
20	Analysis of magnetocrystalline anisotropy oscillations in Co/Pd thin films. <i>Journal of Physics Condensed Matter</i> , 2001, 13, 901-916.	1.8	19
21	Calculated magnetocrystalline anisotropy of decorated and undecorated steps on fcc Co(001). <i>Surface Science</i> , 2001, 493, 744-747.	1.9	6
22	Quantum-well states and magnetocrystalline anisotropy in Co/Pd structures. <i>Physical Review B</i> , 1998, 57, 100-103.	3.2	19
23	Magnetocrystalline anisotropy in Co/Pd structures. <i>Physical Review B</i> , 1997, 55, 3636-3648.	3.2	29
24	Correlation effects in a few-particle one-dimensional Coulomb-interacting system. <i>Theoretica Chimica Acta</i> , 1997, 95, 165.	0.8	0
25	Correlation effects in a few-particle one-dimensional Coulomb-interacting system. <i>Theoretica Chimica Acta</i> , 1996, 95, 165-200.	0.8	0
26	Magnetocrystalline anisotropy in (110) fcc cobalt films. <i>Journal of Magnetism and Magnetic Materials</i> , 1995, 140-144, 681-682.	2.3	19
27	Magnetocrystalline anisotropy in ferromagnetic films. <i>Physical Review B</i> , 1994, 50, 3754-3760.	3.2	74
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	Energy functionals in momentum space: Exchange energy, quantum corrections, and the Kohn-Sham scheme. <i>Physical Review A</i> , 1993, 48, 1893-1902.	2.5	13
30	Thomas-Fermi-Scott model in momentum space. <i>Physical Review A</i> , 1992, 45, 135-139.	2.5	4
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	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
33	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
34	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