

Ivan N Yakovkin

List of Publications by Year in descending order

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73
papers

918
citations

516710

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73
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837
citing authors

#	ARTICLE	IF	CITATIONS
1	Adsorption on a polar oxide surface: O ₂ , C ₂ H ₄ and Na on Cr ₂ O ₃ (0001)/Cr(110). Faraday Discussions, 1996, 105, 295-315.	3.2	78
2	Monte Carlo simulation of CO and O coadsorption and reaction on Pt(111). Surface Science, 2005, 578, 162-173.	1.9	45
3	Driving force for the WO ₃ (001) surface relaxation. Surface Science, 2007, 601, 1481-1488.	1.9	40
4	Dirac Cones in Graphene, Interlayer Interaction in Layered Materials, and the Band Gap in MoS ₂ . Crystals, 2016, 6, 143.	2.2	38
5	Lateral interaction and CO adlayer structures on the Pt() surface. Surface Science, 2002, 519, 90-100.	1.9	35
6	Interrelation between atomic and electronic structures of alkaline-earth adlayers on Mo(112) and Re(100). Journal of Electron Spectroscopy and Related Phenomena, 1994, 68, 369-375.	1.7	30
7	Oxidation of CO on Li-precovered Pt. Surface Science, 1999, 442, 81-89.	1.9	30
8	Monte Carlo simulation of order-disorder transitions in linear structures of alkali and alkaline earth adsorbates. Surface Science, 1993, 282, 195-201.	1.9	29
9	Alkaline-earth overlayers on furrowed transition metal surfaces: An example of tailoring the surface properties. Progress in Surface Science, 1998, 59, 355-365.	8.3	27
10	Self-consistent electronic structure of the Mo(112) surface. Surface Science, 1997, 389, 48-54.	1.9	23
11	The surface sensitivity of the unoccupied bands of Mo(). Surface Science, 2001, 494, L773-L780.	1.9	20
12	Hydrogen-induced metallicity and strengthening of MoS ₂ . Chemical Physics, 2014, 434, 20-24.	1.9	19
13	Monte-Carlo simulation of kinetics of H ₂ molecular adsorption. Surface Science, 2002, 497, 349-355.	1.9	18
14	Crystalline Ice Grown on the Surface of the Ferroelectric Polymer Poly(vinylidene fluoride) (70%) and Trifluoroethylene (30%). Journal of the American Chemical Society, 2005, 127, 17261-17265.	13.7	18
15	DFT study of oxygen adsorption on W(112) surface. Surface Science, 2005, 577, 229-235.	1.9	17
16	Honeycomb BeO monolayer on the Mo(112) surface: LEED and DFT study. Applied Surface Science, 2018, 428, 815-818.	6.1	17
17	Adsorption and reaction of magnesium on. Surface Science, 1996, 365, 394-402.	1.9	16
18	Zigzag chain structures of Gd on the Mo(110) surface. Surface Science, 2008, 602, 2610-2616.	1.9	16

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19	Relaxation of the Mo(112) and W(112) surfaces. European Physical Journal B, 2005, 44, 551-555.	1.5	15
20	Metallicity of atomic wires. Applied Surface Science, 2006, 252, 6127-6134.	6.1	15
21	Density of states and the problem of Sm valence. Surface Science, 2007, 601, 1001-1007.	1.9	15
22	Formation of linear structures of Sr and Gd films on the Mo(112) and W(112) surfaces. Surface Science, 2004, 559, 29-39.	1.9	14
23	STM study of the Mo(112) and Mo(111) surfaces. Surface Science, 2006, 600, 240-244.	1.9	14
24	Hydrogen associative desorption from Ru(1010). European Physical Journal B, 2008, 63, 17-24.	1.5	14
25	Evidence of possible band symmetry effects in STM studies of Gd overlayers. Surface Science, 2002, 520, 43-52.	1.9	13
26	Microscopic model of CO oxidation on Pt(111). Surface Science, 2006, 600, 2600-2607.	1.9	13
27	Fermi surface of Mo(112) and indirect interaction between adsorbed atoms. Physical Review B, 2012, 86, .	3.2	13
28	INTERLAYER INTERACTION AND SCREENING IN MoS_2 . Surface Review and Letters, 2014, 21, 1450039.	1.1	13
29	Spin-orbit band gaps and destruction of Dirac cones. Surface Science, 2017, 662, 1-5.	1.9	13
30	Metallization of the monolayer Mg film with a linear atomic structure. Surface Science, 1998, 406, 57-62.	1.9	12
31	Non-metal-to-metal transition in alkaline earth monolayers. Surface Science, 1999, 442, 431-441.	1.9	12
32	Mechanism of associative oxygen desorption from Pt(111) surface. European Physical Journal B, 2007, 58, 257-262.	1.5	12
33	Band structure of Au layers on the Ru(0001) and graphene/Ru(0001) surfaces. European Physical Journal B, 2012, 85, 1.	1.5	12
34	Metallization and stiffness of the Li-intercalated MoS_2 bilayer. Applied Surface Science, 2015, 353, 333-337.	6.1	12
35	Monte Carlo simulations of hydrogen adsorption on the W(110) and Mo(110) surfaces. European Physical Journal B, 2004, 38, 525-531.	1.5	10
36	Absence of CO dissociation on Mo(112). Journal of Chemical Physics, 2009, 130, 174714.	3.0	10

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37	Influence of the thickness and surface composition on the electronic structure of FeS ₂ layers. Applied Surface Science, 2016, 377, 184-190.	6.1	10
38	New view of the occupied band structure of Mo(112). Physical Review B, 2012, 85, .	3.2	9
39	A DFT and Monte Carlo study of lateral interactions in Be layers on W(112). Surface Science, 2011, 605, 306-313.	1.9	8
40	Lateral interaction in Be and Mg layers on the Mo(112) surface. European Physical Journal B, 2012, 85, 1.	1.5	8
41	Indirect interaction in Ag and Pd adsorbed layers on the Mo(112) surface. Applied Surface Science, 2013, 265, 615-620.	6.1	8
42	DFT study of Sb and Pb layers on the Bi(111) surface. Applied Surface Science, 2018, 445, 154-160.	6.1	8
43	Dependence of the band structure of Bi(111) bilayers on lattice constant and spin-orbit splitting induced by a H monolayer. Journal of Physics and Chemistry of Solids, 2019, 129, 277-283.	4.0	8
44	Band inversion and absence of surface states in IV-VI semiconductors. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 403, 127398.	2.1	8
45	The gold and oxygen (3x1) structures on W(112). Applied Surface Science, 2008, 254, 4326-4331.	6.1	7
46	A density functional theory study of the electron-phonon coupling at the Mo(112) surface. Journal of Physics Condensed Matter, 2011, 23, 225503.	1.8	7
47	Nonmetal-to-metal transition in Mg films on the Mo(112) surface. Surface Science, 2001, 488, 7-14.	1.9	6
48	Variations of the wave vector dependent band gaps with structural transformations of Gd thin films. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 304, 43-48.	2.1	6
49	Lateral interaction and structures in Cl adlayers on the Ag(111) surface. Chemical Physics, 2011, 383, 35-40.	1.9	6
50	Coverage-dependent changes in the electron-phonon coupling in Au/Mo(112). Journal of Electron Spectroscopy and Related Phenomena, 2011, 184, 318-322.	1.7	6
51	Enhanced electron-phonon coupling at the Au/Mo(112) surface. Physical Review B, 2012, 86, .	3.2	6
52	Band structure of the MoS ₂ bilayer with adsorbed and intercalated Na. Physica Status Solidi (B): Basic Research, 2015, 252, 2693-2697.	1.5	6
53	4f hybridization and band dispersion in gadolinium thin films and compounds. Physica Status Solidi (B): Basic Research, 2009, 246, 975-980.	1.5	5
54	Adsorption of Nd on the Mo(110) surface. Applied Surface Science, 2010, 256, 4834-4838.	6.1	5

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55	Valence of δ -divalent rare earth metals. <i>Applied Surface Science</i> , 2010, 256, 4845-4849.	6.1	5
56	DFT calculations of the electronic structure of SnOx layers on Pd(110). <i>European Physical Journal B</i> , 2013, 86, 1.	1.5	5
57	Lateral interactions and zigzag chains of Ho on the Mo(110) surface. <i>Surface Science</i> , 2012, 606, 21-27.	1.9	4
58	The development of the gadolinium surface state. <i>Vacuum</i> , 2004, 74, 191-194.	3.5	3
59	Efficient channel of the associative oxygen desorption from Pt(111). <i>Applied Surface Science</i> , 2008, 254, 4258-4262.	6.1	3
60	Model of the CO oxidation reaction on Au-covered Mo(112). <i>European Physical Journal B</i> , 2012, 85, 1.	1.5	3
61	DFT calculations of phonons in GaAs with zinc blende and wurtzite structures. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 2141-2144.	1.5	3
62	Band structure of free Sb layers and spin-orbit splitting of surface bands. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2022, 430, 127987.	2.1	3
63	DFT study of Sb layers on the Mo(112) surface. <i>Physica B: Condensed Matter</i> , 2022, 636, 413894.	2.7	3
64	Hydrogen-induced mitigation of O on Ru(101̄,0): a density-functional study. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 5695.	2.8	2
65	Electronic structure of SnO and SnO2 layers on Rh(111). <i>Surface Science</i> , 2013, 613, 48-53.	1.9	2
66	DFT and Monte Carlo study of the W(001) surface reconstruction. <i>European Physical Journal B</i> , 2017, 90, 1.	1.5	2
67	Scattering of conduction electrons on the W(001) surface covered with the ordered deuterium monolayer. <i>Surface Science</i> , 2019, 685, 13-18.	1.9	1
68	Splitting of Shockley surface states in thin films of noble metals. <i>Computational Materials Science</i> , 2019, 156, 84-88.	3.0	1
69	Fermi surface of the H/Mo(110) adsorption system and related peculiarities in magnetoresistance. <i>Surface Science</i> , 2020, 695, 121572.	1.9	1
70	ADSORPTION-INDUCED INCREASING SPECULARITY OF CONDUCTION ELECTRONS'S SURFACE SCATTERING. <i>Surface Review and Letters</i> , 2021, 28, 2130001.	1.1	1
71	Band ordering and surface states of SnTe and PbTe. <i>Physica B: Condensed Matter</i> , 2021, 616, 413120.	2.7	1
72	Absence of the Rashba Splitting of Au(111) Surface Bands. <i>Advances in Condensed Matter Physics</i> , 2018, 2018, 1-5.	1.1	0

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73	Quantum confinement in free Cu(111), Ag(111), and Au(111) layers and apparent splitting of surface bands. Surface Science, 2020, 691, 121501.	1.9	0