

Adam Kiejna

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

97
papers

2,236
citations

28
h-index

43
g-index

102
ext. papers

2,388
ext. citations

2.8
avg, IF

5.21
L-index

#	Paper	IF	Citations
97	Structural, electronic, and magnetic properties of bcc iron surfaces. <i>Surface Science</i> , 2007 , 601, 123-133	1.8	157
96	Theoretical study of oxygen adsorption at the Fe(110) and (100) surfaces. <i>Surface Science</i> , 2005 , 590, 88-100	1.8	123
95	Bulk and surface properties of hexagonal-close-packed Be and Mg. <i>Journal of Physics Condensed Matter</i> , 2001 , 13, 10767-10776	1.8	81
94	First-principles study of surface and subsurface O structures at Al(111). <i>Physical Review B</i> , 2001 , 63,	3.3	79
93	Comparison of the full-potential and frozen-core approximation approaches to density-functional calculations of surfaces. <i>Physical Review B</i> , 2006 , 73,	3.3	75
92	Cohesive and magnetic properties of grain boundaries in bcc Fe with Cr additions. <i>Physical Review B</i> , 2010 , 81,	3.3	71
91	The energetics and structure of rutile TiO ₂ (110). <i>Journal of Physics Condensed Matter</i> , 2006 , 18, 4207-17.8	17.8	67
90	Surface properties of simple metals in a structureless pseudopotential model. <i>Physical Review B</i> , 1993 , 47, 7361-7364	3.3	65
89	Calculation of surface properties of bcc iron. <i>Vacuum</i> , 2004 , 74, 179-183	3.7	64
88	Surface properties of the clean and Au/Pd covered Fe ₃ O ₄ (111): DFT and DFT+U study. <i>Physical Review B</i> , 2012 , 85,	3.3	58
87	Effect of impurities on grain boundary cohesion in bcc iron. <i>Computational Materials Science</i> , 2008 , 43, 736-743	3.2	57
86	Work function of metals: Relation between theory and experiment. <i>Progress in Surface Science</i> , 1981 , 11, 293-338	6.6	54
85	Quantum-size effect in thin Al(110) slabs. <i>Surface Science</i> , 1999 , 432, 54-60	1.8	50
84	Surface properties of clean and Au or Pd covered hematite (Fe ₂ O ₃)(0001). <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 095003	1.8	48
83	Effect of impurities on structural, cohesive and magnetic properties of grain boundaries in Fe. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2011 , 19, 025001	2	42
82	Mixed Termination of Hematite (Fe ₂ O ₃)(0001) Surface. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 24339-24344	9.2	40
81	The temperature dependence of metal work functions. <i>Journal of Physics F: Metal Physics</i> , 1979 , 9, 1361-1366	39	

80	Segregation of Cr impurities at bcc iron surfaces: First-principles calculations. <i>Physical Review B</i> , 2008 , 78,	3.3	38
79	Simple theory of elastically deformed metals: Surface energy, stress, and work function. <i>Physical Review B</i> , 2000 , 62, 10445-10450	3.3	37
78	The role of charge transfer in the oxidation state change of Ce atoms in the TM13-CeO ₂ (111) systems (TM = Pd, Ag, Pt, Au): a DFT + U investigation. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 13520-30	3.6	35
77	Adsorption of Rh, Pd, Ir, and Pt on the Au(111) and Cu(111) Surfaces: A Density Functional Theory Investigation. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 19051-19061	3.8	34
76	Stability of oxygen adsorption sites and ultrathin aluminum oxide films on Al(111). <i>Surface Science</i> , 2002 , 504, 1-10	1.8	33
75	On the temperature dependence of the work function. <i>Surface Science</i> , 1986 , 178, 349-358	1.8	33
74	Oxygen adsorption on Fe(110) surface revisited. <i>Surface Science</i> , 2015 , 637-638, 35-41	1.8	32
73	O adsorption and incipient oxidation of the Mg(0001) surface. <i>Physical Review B</i> , 2004 , 69,	3.3	32
72	First-principles study of Au nanostructures on rutile TiO ₂ (110). <i>Physical Review B</i> , 2009 , 79,	3.3	30
71	Dissociative adsorption of O ₂ molecules on O-precovered Fe(110) and Fe(100): Density-functional calculations. <i>Physical Review B</i> , 2008 , 77,	3.3	29
70	First-principles calculation of Li adatom structures on the Mo(112) surface. <i>Physical Review B</i> , 2002 , 66,	3.3	29
69	Comparison of the Performance of van der Waals Dispersion Functionals in the Description of Water and Ethanol on Transition Metal Surfaces. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 1577-1588	3.8	25
68	Energetics of oxygen vacancies at rutile TiO ₂ (110) surface. <i>Solid State Communications</i> , 2007 , 144, 324-328	3.8	25
67	Density functional study of surface properties of chromium. <i>Surface Science</i> , 2008 , 602, 517-524	1.8	25
66	Adsorption of water and ethanol on noble and transition-metal substrates: a density functional investigation within van der Waals corrections. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 29526-29536	3.6	25
65	Density-functional study of oxygen adsorption on Mo(112). <i>Journal of Chemical Physics</i> , 2005 , 122, 44712	3.9	24
64	Energetics of Sr adatom interactions on the Mo(112) surface. <i>Physical Review B</i> , 2004 , 69,	3.3	22
63	Stabilized jellium-simple model for simple-metal surfaces. <i>Progress in Surface Science</i> , 1999 , 61, 85-125	6.6	22

62	Image potential matched self-consistently to an effective potential for simple-metal surfaces. <i>Physical Review B</i> , 1991 , 43, 14695-14698	3.3	22
61	On the temperature dependence of the ionization potential of self-compressed solid- and liquid-metallic clusters. <i>Journal of Physics Condensed Matter</i> , 1996 , 8, 4245-4257	1.8	21
60	Vacancy formation and O adsorption at the Al(111) surface. <i>Physical Review B</i> , 2003 , 68,	3.3	21
59	Surface atomic structure and energetics of tantalum. <i>Surface Science</i> , 2005 , 598, 276-284	1.8	21
58	One-dimensional Au on TiO ₂ . <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 082202	1.8	20
57	Surface modification of oxides by electron-stimulated desorption for growth-mode control of metal films: Experiment and density-functional calculations. <i>Physical Review B</i> , 2007 , 76,	3.3	19
56	Oxygen adsorption on the clean and O-precovered Fe (110) and (100) surfaces. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 096011	1.8	18
55	Nanoscale Patterns on Polar Oxide Surfaces. <i>Chemistry of Materials</i> , 2016 , 28, 7433-7443	9.6	18
54	Mg(0001) surface oxidation: A two-dimensional oxide phase. <i>Physical Review B</i> , 2004 , 69,	3.3	17
53	Trends in atom/molecule-surface van der Waals interactions. <i>Surface Science</i> , 1997 , 383, 88-94	1.8	16
52	Alkali metals adsorption on the Mg(0) surface. <i>Surface Science</i> , 2004 , 548, 22-28	1.8	16
51	Surface properties of alkali-metal alloys. <i>Journal of Physics C: Solid State Physics</i> , 1983 , 16, 6883-6896		15
50	Fe adsorption on hematite (Fe ₂ O ₃) (0001) and magnetite (Fe ₃ O ₄) (111) surfaces. <i>Journal of Chemical Physics</i> , 2014 , 141, 134707	3.9	13
49	Adsorption of gold subnano-structures on a magnetite(111) surface and their interaction with CO. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 18169-79	3.6	12
48	Multilayer relaxations at the (0001) surface of Be and Mg. <i>Solid State Communications</i> , 2000 , 116, 17-20	1.6	12
47	Effect of iron additions on intergranular cohesion in chromium. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 485002	1.8	11
46	Response of a stabilized-jellium surface to a static electric field. <i>Surface Science</i> , 1995 , 331-333, 1167-1171	1.8	11
45	Surface stress of stabilized jellium. <i>Solid State Communications</i> , 1993 , 88, 143-147	1.6	11

44	A note on face-dependent surface properties of simple metals. <i>Journal of Physics C: Solid State Physics</i> , 1982 , 15, 4717-4725		11
43	Water adsorption on the stoichiometric and defected Fe(110) surfaces. <i>Surface Science</i> , 2018 , 668, 144-149		11
42	Sum rules for the planar surface of stabilized jellium. <i>Physical Review B</i> , 1993 , 48, 4811-4815	3.3	10
41	Comment on the surface segregation in alkali-metal alloys. <i>Journal of Physics Condensed Matter</i> , 1990 , 2, 6331-6333	1.8	10
40	CO adsorption on small Au _n (n = 1-4) structures supported on hematite. I. Adsorption on iron terminated α -Fe ₂ O ₃ (0001) surface. <i>Journal of Chemical Physics</i> , 2016 , 144, 044704	3.9	10
39	Effect of substrate relaxation on adsorption energies: The example of α -Fe ₂ O ₃ (0001) and Fe ₃ O ₄ (111). <i>Surface Science</i> , 2019 , 679, 225-229	1.8	10
38	First-principles study of the adsorption of MgO molecules on a clean Fe(001) surface. <i>Physical Review B</i> , 2015 , 92,	3.3	9
37	Comparative study of Ag, Au, Pd, and Pt adsorption on Mo and Ta(112) surfaces. <i>Physical Review B</i> , 2006 , 74,	3.3	9
36	CO adsorption on small Au _n (n = 1-4) structures supported on hematite. II. Adsorption on the O-rich termination of α -Fe ₂ O ₃ (0001) surface. <i>Journal of Chemical Physics</i> , 2016 , 144, 044705	3.9	9
35	The role of the cationic Pt sites in the adsorption properties of water and ethanol on the Pt/Pt(111) and Pt/CeO(111) substrates: A density functional theory investigation. <i>Journal of Chemical Physics</i> , 2016 , 145, 124709	3.9	9
34	Structure and energetics changes during hydrogenation of 4H-SiC{0001} surfaces: a DFT study. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 385801	1.8	8
33	Density functional study of alkali metals adsorption on the MgO(111) surface. <i>Surface Science</i> , 2003 , 538, 240-248	1.8	8
32	Energetics of finite metallic nanowires. <i>Surface Science</i> , 2001 , 472, 172-178	1.8	8
31	Stability of gold nanostructures on rutile TiO ₂ (110) surface. <i>Surface Science</i> , 2011 , 605, 668-674	1.8	7
30	Work function changes on single crystal planes. <i>Solid State Communications</i> , 1979 , 31, 857-859	1.6	7
29	Simple Non-Local Calculation of Jellium Metal Surface Properties. <i>Physica Status Solidi (B): Basic Research</i> , 1981 , 105, 147-153	1.3	7
28	DFT study of stepped 4H-SiC{0001} surfaces. <i>Applied Surface Science</i> , 2017 , 420, 129-135	6.7	6
27	Grain boundary segregation in low Cr Fe/Cr alloys: The effect of radiation induced vacancies studied by metropolis Monte Carlo simulations. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2011 , 269, 1679-1683	1.2	6

26	Ab initio simulation of copper and silver adsorption on the MgO(111) surface. <i>Surface Science</i> , 2005 , 589, 114-119	1.8	6
25	FACE-DEPENDENT WORK FUNCTION DERIVED FROM THE LOCAL POLARIZATION OF PLASMA AND THE IMAGE FORCE ACTION NEAR A METAL SURFACE. <i>Modern Physics Letters B</i> , 1999 , 13, 1081-1085	1.6	6
24	On the Structure of Ultrathin FeO Films on Ag(111). <i>Nanomaterials</i> , 2018 , 8,	5.4	6
23	The role of van der Waals interaction in the tilted binding of amine molecules to the Au(111) surface. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 222001	1.8	5
22	Low-coverage K adsorption on Mg(0 0 0 1) surface. <i>Surface Science</i> , 2004 , 566-568, 983-988	1.8	5
21	Image plane position at a charged surface of stabilized jellium. <i>Surface Science</i> , 1993 , 287-288, 618-621	1.8	5
20	Surface plasmon dispersion in simple metals: a sum rule approach. <i>Surface Science</i> , 1994 , 320, 355-360	1.8	5
19	Stress sum rules for the flat surface of stabilized jellium. <i>Physical Review B</i> , 1997 , 56, 1095-1098	3.3	4
18	Electron-positron annihilation characteristics at a metal surface: simple metals. <i>Journal of Physics Condensed Matter</i> , 1993 , 5, 8195-8210	1.8	4
17	The effect of strong electric field on lattice relaxation at metal surface. <i>Solid State Communications</i> , 1984 , 50, 349-352	1.6	4
16	Oxygen Adsorption on the Fe(110) Surface: The Old System [New Structures. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 3807-3813	3.8	4
15	Towards understanding MgO/Fe interface formation: Adsorption of O and Mg atoms on an Fe(001) surface. <i>Physical Review B</i> , 2017 , 96,	3.3	3
14	Work function of K and Rb submonolayers adsorbed on Al(111) and Mg(0001). <i>Vacuum</i> , 1990 , 41, 580-583	3.7	3
13	On adhesive energies at bimetallic interfaces. <i>Surface Science</i> , 1985 , 159, L411-L415	1.8	3
12	Adhesion between simple metal surfaces. <i>Journal of Physics Condensed Matter</i> , 1998 , 10, 6621-6628	1.8	2
11	Monte Carlo study of oxidation of the 3C-BiC(001) surface. <i>Applied Surface Science</i> , 2008 , 254, 4352-4356	6.7	2
10	Adhesive Energies at Potassium Alloys Interfaces. <i>Physica Scripta</i> , 1987 , 35, 738-741	2.6	2
9	Incipient adsorption of water and hydroxyl on hematite (0001) surface. <i>Journal of Physics Communications</i> , 2019 , 3, 035023	1.2	1

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| 8 | Sum-rule approach in the theory of charged self-compressed dielectric droplets. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001 , 293, 59-70 | 3.3 | 1 |
| 7 | Polarization of a metal surface by an external proton. <i>Physical Review B</i> , 1998 , 58, 1633-1642 | 3.3 | 1 |
| 6 | Effect of the ionic potential on the potential barrier for the metal-vacuum-metal tunneling electrons. <i>Physica Status Solidi A</i> , 1992 , 131, 117-121 | | 1 |
| 5 | Field emission from a metal covered with a semiconducting layer: A model calculation. <i>Applied Physics A: Solids and Surfaces</i> , 1990 , 50, 331-338 | | 1 |
| 4 | Gold nanostructures on iron oxide surfaces and their interaction with CO. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 433001 | 1.8 | 1 |
| 3 | Ostwald Ripening in an Oxide-on-Metal System. <i>Advanced Materials Interfaces</i> , 2200222 | 4.6 | 1 |
| 2 | Potential barrier for the metal-vacuum-metal tunneling electrons. <i>Ultramicroscopy</i> , 1992 , 42-44, 231-235 | 3.1 | 0 |
| 1 | Water Adsorption on bcc Iron Surfaces 2018 , 298-303 | | |