Adam Kiejna

List of Publications by Year in Descending Order

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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	Gold nanostructures on iron oxide surfaces and their interaction with CO. *Journal of Physics Condensed Matter*, **2020**, 32, 433001	1.8	1
96	Incipient adsorption of water and hydroxyl on hematite (0001) surface. *Journal of Physics Communications*, **2019**, 3, 035023	1.2	1
95	Effect of substrate relaxation on adsorption energies: The example of □Fe2O3(0001) and Fe3O4(111). *Surface Science*, **2019**, 679, 225-229	1.8	10
94	Comparison of the Performance of van der Waals Dispersion Functionals in the Description of Water and Ethanol on Transition Metal Surfaces. *Journal of Physical Chemistry C*, **2018**, 122, 1577-1588	3.8	25
93	Water adsorption on the stoichiometric and defected Fe(110) surfaces. *Surface Science*, **2018**, 668, 144-149	1.8	11
92	Water Adsorption on bcc Iron Surfaces **2018**, 298-303		
91	On the Structure of Ultrathin FeO Films on Ag(111). *Nanomaterials*, **2018**, 8,	5.4	6
90	DFT study of stepped 4H-SiC{0001} surfaces. *Applied Surface Science*, **2017**, 420, 129-135	6.7	6
89	Towards understanding MgO/Fe interface formation: Adsorption of O and Mg atoms on an Fe(001) surface. *Physical Review B*, **2017**, 96,	3.3	3
88	Adsorption of gold subnano-structures on a magnetite(111) surface and their interaction with CO. *Physical Chemistry Chemical Physics*, **2016**, 18, 18169-79	3.6	12
87	CO adsorption on small Aun (n = 1-4) structures supported on hematite. II. Adsorption on the O-rich termination of □Fe2O3(0001) surface. *Journal of Chemical Physics*, **2016**, 144, 044705	3.9	9
86	CO adsorption on small Aun (n = 1-4) structures supported on hematite. I. Adsorption on iron terminated □Fe2O3 (0001) surface. *Journal of Chemical Physics*, **2016**, 144, 044704	3.9	10
85	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. *Journal of Chemical Physics*, **2016**, 145, 124709	3.9	9
84	Oxygen Adsorption on the Fe(110) Surface: The Old System □New Structures. *Journal of Physical Chemistry C*, **2016**, 120, 3807-3813	3.8	4
83	Adsorption of water and ethanol on noble and transition-metal substrates: a density functional investigation within van der Waals corrections. *Physical Chemistry Chemical Physics*, **2016**, 18, 29526-29536	3.6	25
82	Nanoscale Patterns on Polar Oxide Surfaces. *Chemistry of Materials*, **2016**, 28, 7433-7443	9.6	18
81	Oxygen adsorption on Fe(110) surface revisited. *Surface Science*, **2015**, 637-638, 35-41	1.8	32

80	The role of charge transfer in the oxidation state change of Ce atoms in the TM13-CeO2(111) systems (TM = Pd, Ag, Pt, Au): a DFT + U investigation. *Physical Chemistry Chemical Physics*, **2015**, 17, 13520-30	3.6	35
79	First-principles study of the adsorption of MgO molecules on a clean Fe(001) surface. *Physical Review B*, **2015**, 92,	3.3	9
78	Fe adsorption on hematite (Fe2O3) (0001) and magnetite (Fe3O4) (111) surfaces. *Journal of Chemical Physics*, **2014**, 141, 134707	3.9	13
77	Adsorption of Rh, Pd, Ir, and Pt on the Au(111) and Cu(111) Surfaces: A Density Functional Theory Investigation. *Journal of Physical Chemistry C*, **2014**, 118, 19051-19061	3.8	34
76	Mixed Termination of Hematite (Fe2O3)(0001) Surface. *Journal of Physical Chemistry C*, **2013**, 117, 24339-24344	3.8	40
75	Structure and energetics changes during hydrogenation of 4H-SiC{0001} surfaces: a DFT study. *Journal of Physics Condensed Matter*, **2012**, 24, 385801	1.8	8
74	The role of van der Waals interaction in the tilted binding of amine molecules to the Au(111) surface. *Journal of Physics Condensed Matter*, **2012**, 24, 222001	1.8	5
73	Surface properties of the clean and Au/Pd covered Fe3O4(111): DFT andDFT+U study. *Physical Review B*, **2012**, 85,	3.3	58
72	Surface properties of clean and Au or Pd covered hematite (Fe(2)O(3)) (0001). *Journal of Physics Condensed Matter*, **2012**, 24, 095003	1.8	48
71	Grain boundary segregation in low Cr Fe Cr alloys: The effect of radiation induced vacancies studied by metropolis Monte Carlo simulations. *Nuclear Instruments & Methods in Physics Research B* , **2011**, 269, 1679-1683	1.2	6
70	Stability of gold nanostructures on rutile TiO2(110) surface. *Surface Science*, **2011**, 605, 668-674	1.8	7
69	Effect of impurities on structural, cohesive and magnetic properties of grain boundaries in Fe. *Modelling and Simulation in Materials Science and Engineering*, **2011**, 19, 025001	2	42
68	Cohesive and magnetic properties of grain boundaries in bcc Fe with Cr additions. *Physical Review B* , **2010**, 81,	3.3	71
67	First-principles study of Au nanostructures on rutile TiO2(110). *Physical Review B*, **2009**, 79,	3.3	30
66	Effect of iron additions on intergranular cohesion in chromium. *Journal of Physics Condensed Matter* , **2009**, 21, 485002	1.8	11
65	Effect of impurities on grain boundary cohesion in bcc iron. *Computational Materials Science*, **2008**, 43, 736-743	3.2	57
64	Dissociative adsorption of O2 molecules on O-precovered Fe(110) and Fe(100): Density-functional calculations. *Physical Review B*, **2008**, 77,	3.3	29
63	Segregation of Cr impurities at bcc iron surfaces: First-principles calculations. *Physical Review B*, **2008**, 78,	3.3	38

62	Monte Carlo study of oxidation of the 3C-SiC(001) surface. *Applied Surface Science*, **2008**, 254, 4352-4356	6.7	2
61	Density functional study of surface properties of chromium. *Surface Science*, **2008**, 602, 517-524	1.8	25
60	Energetics of oxygen vacancies at rutile TiO2(110) surface. *Solid State Communications*, **2007**, 144, 324-328	1.8	25
59	Structural, electronic, and magnetic properties of bcc iron surfaces. *Surface Science*, **2007**, 601, 123-133	1.8	157
58	Oxygen adsorption on the clean and O-precovered Fe (110) and (100) surfaces. *Journal of Physics Condensed Matter*, **2007**, 19, 096011	1.8	18
57	Surface modification of oxides by electron-stimulated desorption for growth-mode control of metal films: Experiment and density-functional calculations. *Physical Review B*, **2007**, 76,	3.3	19
56	One-dimensional Au on TiO2. *Journal of Physics Condensed Matter*, **2007**, 19, 082202	1.8	20
55	Comparison of the full-potential and frozen-core approximation approaches to density-functional calculations of surfaces. *Physical Review B*, **2006**, 73,	3.3	75
54	Comparative study of Ag, Au, Pd, and Pt adsorption on Mo and Ta(112) surfaces. *Physical Review B*, **2006**, 74,	3.3	9
53	The energetics and structure of rutile TiO(2)(110). *Journal of Physics Condensed Matter*, **2006**, 18, 4207-17	1.8	67
52	Theoretical study of oxygen adsorption at the Fe(110) and (100) surfaces. *Surface Science*, **2005**, 590, 88-100	1.8	123
51	Ab initio simulation of copper and silver adsorption on the MgO(111) surface. *Surface Science*, **2005**, 589, 114-119	1.8	6
50	Surface atomic structure and energetics of tantalum. *Surface Science*, **2005**, 598, 276-284	1.8	21
49	Density-functional study of oxygen adsorption on Mo(112). *Journal of Chemical Physics*, **2005**, 122, 44712	3.9	24
48	Energetics of Sr adatom interactions on the Mo(112) surface. *Physical Review B*, **2004**, 69,	3.3	22
47	O adsorption and incipient oxidation of the Mg(0001) surface. *Physical Review B*, **2004**, 69,	3.3	32
46	Mg(0001) surface oxidation: A two-dimensional oxide phase. *Physical Review B*, **2004**, 69,	3.3	17
45	Calculation of surface properties of bcc iron. *Vacuum*, **2004**, 74, 179-183	3.7	64

44	Alkali metals adsorption on the Mg() surface. *Surface Science*, **2004**, 548, 22-28	1.8	16
43	Low-coverage K adsorption on Mg(0 0 0 1) surface. *Surface Science*, **2004**, 566-568, 983-988	1.8	5
42	Density functional study of alkali metals adsorption on the MgO(111) surface. *Surface Science*, **2003**, 538, 240-248	1.8	8
41	Vacancy formation and O adsorption at the Al(111) surface. *Physical Review B*, **2003**, 68,	3.3	21
40	First-principles calculation of Li adatom structures on the Mo(112) surface. *Physical Review B*, **2002**, 66,	3.3	29
39	Stability of oxygen adsorption sites and ultrathin aluminum oxide films on Al(111). *Surface Science*, **2002**, 504, 1-10	1.8	33
38	Sum-rule approach in the theory of charged self-compressed dielectric droplets. *Physica A: Statistical Mechanics and Its Applications*, **2001**, 293, 59-70	3.3	1
37	First-principles study of surface and subsurface O structures at Al(111). *Physical Review B*, **2001**, 63,	3.3	79
36	Energetics of finite metallic nanowires. *Surface Science*, **2001**, 472, 172-178	1.8	8
35	Bulk and surface properties of hexagonal-close-packed Be and Mg. *Journal of Physics Condensed Matter*, **2001**, 13, 10767-10776	1.8	81
34	Multilayer relaxations at the (0001) surface of Be and Mg. *Solid State Communications*, **2000**, 116, 17-20	1.6	12
33	Simple theory of elastically deformed metals: Surface energy, stress, and work function. *Physical Review B*, **2000**, 62, 10445-10450	3.3	37
32	FACE-DEPENDENT WORK FUNCTION DERIVED FROM THE LOCAL POLARIZATION OF PLASMA AND THE IMAGE FORCE ACTION NEAR A METAL SURFACE. *Modern Physics Letters B*, **1999**, 13, 1081-1085	1.6	6
31	Stabilized jellium: Simple model for simple-metal surfaces. *Progress in Surface Science*, **1999**, 61, 85-125	6.6	22
30	Quantum-size effect in thin Al(110) slabs. *Surface Science*, **1999**, 432, 54-60	1.8	50
29	Adhesion between simple metal surfaces. *Journal of Physics Condensed Matter*, **1998**, 10, 6621-6628	1.8	2
28	Polarization of a metal surface by an external proton. *Physical Review B*, **1998**, 58, 1633-1642	3.3	1
27	Stress sum rules for the flat surface of stabilized jellium. *Physical Review B*, **1997**, 56, 1095-1098	3.3	4

26	Trends in atom/molecule-surface van der Waals interactions. *Surface Science*, **1997**, 383, 88-94	1.8	16
25	On the temperature dependence of the ionization potential of self-compressed solid- and liquid-metallic clusters. *Journal of Physics Condensed Matter*, **1996**, 8, 4245-4257	1.8	21
24	Response of a stabilized-jellium surface to a static electric field. *Surface Science*, **1995**, 331-333, 1167-1171	1.8	11
23	Surface plasmon dispersion in simple metals: a sum rule approach. *Surface Science*, **1994**, 320, 355-360	1.8	5
22	Image plane position at a charged surface of stabilized jellium. *Surface Science*, **1993**, 287-288, 618-621	1.8	5
21	Sum rules for the planar surface of stabilized jellium. *Physical Review B*, **1993**, 48, 4811-4815	3.3	10
20	Electron-positron annihilation characteristics at a metal surface: simple metals. *Journal of Physics Condensed Matter*, **1993**, 5, 8195-8210	1.8	4
19	Surface properties of simple metals in a structureless pseudopotential model. *Physical Review B*, **1993**, 47, 7361-7364	3.3	65
18	Surface stress of stabilized jellium. *Solid State Communications*, **1993**, 88, 143-147	1.6	11
17	Effect of the ionic potential on the potential barrier for the metal□vacuum□metal tunneling electrons. *Physica Status Solidi A*, **1992**, 131, 117-121		1
16	Potential barrier for the metal-vacuum-metal tunneling electrons. *Ultramicroscopy*, **1992**, 42-44, 231-235	3.1	0
15	Image potential matched self-consistently to an effective potential for simple-metal surfaces. *Physical Review B*, **1991**, 43, 14695-14698	3.3	22
14	Field emission from a metal covered with a semiconducting layer: A model calculation. *Applied Physics A: Solids and Surfaces*, **1990**, 50, 331-338		1
13	Work function of K and Rb submonolayers adsorbed on Al(111) and Mg(0001). *Vacuum*, **1990**, 41, 580-582	3.7	3
12	Comment on the surface segregation in alkali-metal alloys. *Journal of Physics Condensed Matter*, **1990**, 2, 6331-6333	1.8	10
11	Adhesive Energies at Potassium Alloys Interfaces. *Physica Scripta*, **1987**, 35, 738-741	2.6	2
10	On the temperature dependence of the work function. *Surface Science*, **1986**, 178, 349-358	1.8	33
9	On adhesive energies at bimetallic interfaces. *Surface Science*, **1985**, 159, L411-L415	1.8	3

8	The effect of strong electric field on lattice relaxation at metal surface. *Solid State Communications*, **1984**, 50, 349-352	1.6	4
7	Surface properties of alkali-metal alloys. *Journal of Physics C: Solid State Physics*, **1983**, 16, 6883-6896		15
6	A note on face-dependent surface properties of simple metals. *Journal of Physics C: Solid State Physics*, **1982**, 15, 4717-4725		11
5	Simple Non-Local Calculation of Jellium Metal Surface Properties. *Physica Status Solidi (B): Basic Research*, **1981**, 105, 147-153	1.3	7
4	Work function of metals: Relation between theory and experiment. *Progress in Surface Science*, **1981**, 11, 293-338	6.6	54
3	Work function changes on single crystal planes. *Solid State Communications*, **1979**, 31, 857-859	1.6	7
2	The temperature dependence of metal work functions. *Journal of Physics F: Metal Physics*, **1979**, 9, 1361-1366		39
1	Ostwald Ripening in an Oxide-on-Metal System. *Advanced Materials Interfaces*,2200222	4.6	1