

Baer

List of Publications by Year in descending order

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304743

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times ranked

2203
citing authors

#	ARTICLE	IF	CITATIONS
1	The adsorption of liquid and vapor water on TiO ₂ (110) surfaces: the role of defects. <i>Surface Science</i> , 1995, 344, 237-250.	1.9	228
2	XPS analysis of nanostructured materials and biological surfaces. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2010, 178-179, 415-432.	1.7	177
3	Creation of variable concentrations of defects on TiO ₂ (110) using low-density electron beams. <i>Surface Science</i> , 1994, 320, 295-306.	1.9	148
4	The structure of Na ₂ O-Al ₂ O ₃ -SiO ₂ glass: impact on sodium ion exchange in H ₂ O and D ₂ O. <i>Journal of Non-Crystalline Solids</i> , 2001, 296, 10-26.	3.1	142
5	Comparative second harmonic generation and X-ray photoelectron spectroscopy studies of the UV creation and O ₂ healing of Ti ³⁺ defects on (110) rutile TiO ₂ surfaces. <i>Surface Science</i> , 1995, 339, 114-124.	1.9	140
6	Anisotropic dissolution at the CaCO ₃ (101̄,4) water interface. <i>Surface Science</i> , 1997, 373, 275-287.	1.9	133
7	Structure of the cleaved CaCO ₃ (101̄,4) surface in an aqueous environment. <i>Surface Science</i> , 1996, 351, 172-182.	1.9	114
8	Microscopic effects of carbonate, manganese, and strontium ions on calcite dissolution. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 369-379.	3.9	109
9	Interactions of HCOOH with stoichiometric and defective TiO ₂ (110) surfaces. <i>Surface Science</i> , 1997, 380, 352-364.	1.9	90
10	Studies of the calcite cleavage surface for comparison with calculation. <i>Applied Surface Science</i> , 1993, 72, 295-300.	6.1	60
11	Electron beam-induced thickening of the protective oxide layer around Fe nanoparticles. <i>Ultramicroscopy</i> , 2007, 108, 43-51.	1.9	53
12	Effects of titania surface structure on the nucleation and growth of Pt nanoclusters on rutile TiO ₂ (110). <i>Surface Science</i> , 2001, 475, 159-170.	1.9	51
13	The interactions of Co, Mn and water with calcite surfaces. <i>Surface Science</i> , 1992, 276, 27-39.	1.9	48
14	Reaction of soda lime silicate glass in isotopically labelled water. <i>Journal of Non-Crystalline Solids</i> , 1986, 86, 369-380.	3.1	40
15	Heteroepitaxial growth of a manganese carbonate secondary nano-phase on the (104) surface of calcite in solution. <i>Surface Science</i> , 2003, 524, 63-77.	1.9	40
16	Protective and non-protective oxide formation on 304 stainless steel. <i>Applications of Surface Science</i> , 1981, 7, 69-82.	1.0	35
17	Interactions of liquid and vapor water with stoichiometric and defective TiO ₂ (100) surfaces. <i>Surface Science</i> , 1999, 440, 60-68.	1.9	35
18	Fracture mode transition of iron in hydrogen as a function of grain boundary sulfur. <i>Scripta Metallurgica</i> , 1980, 14, 137-141.	1.2	33

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19	Atomic control of TiO ₂ (110) surface by oxygen plasma treatment. <i>Surface Science</i> , 2000, 459, L498-L502.	1.9	32
20	Comparative SHG and XPS studies of interactions between defects and N ₂ O on rutile TiO ₂ (110) surfaces. <i>Surface Science</i> , 1997, 392, 1-7.	1.9	30
21	Effect of irradiation on phosphorus segregation. <i>Journal of Nuclear Materials</i> , 1983, 117, 218-223.	2.7	29
22	Sulfur induced fracture mode transition of nickel at cathodic potentials. <i>Scripta Metallurgica</i> , 1980, 14, 1233-1237.	1.2	23
23	Radiation induced phosphorus segregation in austenitic and ferritic alloys. <i>Journal of Nuclear Materials</i> , 1984, 122, 196-200.	2.7	20
24	Characterization of natural titanomagnetites (Fe ₃ ~xTi _x O ₄) for studying heterogeneous electron transfer to Tc(VII) in the Hanford subsurface. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 128, 114-127.	3.9	20
25	Comparison of segregated phosphorus and sulfur effects on the fracture mode and ductility of iron tested at cathodic potentials. <i>Scripta Metallurgica</i> , 1982, 16, 615-620.	1.2	19
26	Effect of excimer laser melting on the near surface chemistry and corrosion properties of aisi 304 stainless steel. <i>Materials Letters</i> , 1988, 6, 225-228.	2.6	19
27	Formation of epitaxial oxide nanodots on oxide substrate: Cu ₂ O on SrTiO ₃ (100). <i>Surface Science</i> , 2005, 589, 120-128.	1.9	16
28	Characterization of Thin Films and Coatings. , 2010, , 749-864.		15
29	Separation, characterization and initial reaction studies of magnetite particles from Hanford sediments. <i>Physics and Chemistry of the Earth</i> , 2010, 35, 233-241.	2.9	12
30	Radiation induced segregation in candidate fusion reactor alloys. <i>Journal of Nuclear Materials</i> , 1981, 104, 1379-1383.	2.7	10
31	The effects of sulfur on the dissolution of nickel. <i>Corrosion Science</i> , 1989, 29, 1265-1274.	6.6	10
32	Dissolution and growth of calcite in flowing water: estimation of back reaction rates via kinetic Monte Carlo simulations. <i>Journal of Crystal Growth</i> , 2004, 262, 503-518.	1.5	7
33	Sub-critical intergranular crack growth of iron and nickel. <i>Scripta Metallurgica</i> , 1984, 18, 47-52.	1.2	4
34	Solving corrosion problems with surface analysis. <i>Applications of Surface Science</i> , 1985, 20, 382-396.	1.0	4
35	Focused ion beam directed self-assembly (Cu ₂ O on SrTiO ₃): FIB pit and Cu ₂ O nanodot evolution. <i>Superlattices and Microstructures</i> , 2008, 44, 677-685.	3.1	4
36	Electrochemical effects of S accumulation on ion-implanted Alloy 22 in 1M NaCl solutions. <i>Corrosion Science</i> , 2007, 49, 2497-2511.	6.6	2

#	ARTICLE	IF	CITATIONS
37	3.6 Nano-Objects as Biomaterials: Immense Opportunities, Significant Challenges and the Important Use of Surface Analytical Methods. , 2017, , 86-107.		2