

Anne Borg

List of Publications by Year in descending order

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100
papers

2,475
citations

201385

27
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223531

46
g-index

100
all docs

100
docs citations

100
times ranked

2757
citing authors

#	ARTICLE	IF	CITATIONS
1	Photoemission study of CoO. Physical Review B, 1990, 42, 1817-1828.	1.1	191
2	STM studies of clean, CO- and O ₂ -exposed Pt(100)-hex-R0.7Å°. Surface Science, 1994, 306, 10-20.	0.8	127
3	Ordered structures of CO on Pd(111) studied by STM. Surface Science, 2002, 512, 48-60.	0.8	115
4	<i>In Situ</i> X-Ray Photoelectron Spectroscopy of Model Catalysts: At the Edge of the Gap. Physical Review Letters, 2013, 110, 117601.	2.9	107
5	Experimental evidence for mixed dissociative and molecular adsorption of water on a rutile TiO_2 without oxygen vacancies. Physical Review B, 2009, 80, .	1.1	106
6	Mixed Dissociative and Molecular Water Adsorption on Anatase TiO_2 (101). Journal of Physical Chemistry C, 2011, 115, 9545-9550.	1.5	104
7	Thin Pd-23%Ag/stainless steel composite membranes: Long-term stability, life-time estimation and post-process characterisation. Journal of Membrane Science, 2009, 326, 572-581.	4.1	96
8	Hydrogen permeation of thin, free-standing Pd/Ag23% membranes before and after heat treatment in air. Journal of Membrane Science, 2008, 307, 96-104.	4.1	92
9	Water Dissociation on Single Crystalline Anatase TiO_2 (001) Studied by Photoelectron Spectroscopy. Journal of Physical Chemistry C, 2008, 112, 16616-16621.	1.5	80
10	Subsurface impurities in Pd(111) studied by scanning tunneling microscopy. Journal of Chemical Physics, 2001, 115, 10927-10934.	1.2	77
11	Pt(100) quasihexagonal reconstruction: A comparison between scanning tunneling microscopy data and effective medium theory simulation calculations. Physical Review B, 1997, 56, 10518-10525.	1.1	56
12	Photoemission study of monoclinic BaBiO ₃ . Physical Review B, 1989, 40, 6912-6918.	1.1	55
13	Chemisorption of atomic oxygen on Pd(111) studied by STM. Surface Science, 2004, 561, 69-78.	0.8	55
14	Toward Controlled Modification of Nanoporous Gold. A Detailed Surface Science Study on Cleaning and Oxidation. Journal of Physical Chemistry C, 2012, 116, 4564-4571.	1.5	51
15	Observation of a low-binding-energy peak in the 2p-core-level photoemission from oxidized Al(111). Physical Review B, 1993, 47, 13063-13066.	1.1	45
16	Nucleation and growth of Au overlayers on Pt(100)-hex-R0.7Å° studied by STM and photoelectron spectroscopy. Surface Science, 1998, 409, 1-15.	0.8	42
17	CO and O ₂ adsorption on the Re/Pt(111) surface studied by photoemission and thermal desorption.. Surface Science, 1999, 440, 290-300.	0.8	38
18	Capping and decapping of MBE grown GaAs(001), Al _{0.5} Ga _{0.5} As(001), and AlAs(001) investigated with ASP, PES, LEED, and RHEED. Applied Surface Science, 1992, 56-58, 74-80.	3.1	37

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19	Thickness dependent effects of solubility and surface phenomena on the hydrogen transport properties of sputtered Pd77%Ag23% thin film membranes. Journal of Membrane Science, 2015, 476, 602-608.	4.1	36
20	Surface composition of clean and oxidized Pd75Ag25(100) from photoelectron spectroscopy and density functional theory calculations. Surface Science, 2012, 606, 1777-1782.	0.8	34
21	Core level photoelectron microscopy. Journal of Electron Spectroscopy and Related Phenomena, 1990, 52, 797-810.	0.8	33
22	Surface characterization of Pd/Ag23wt% membranes after different thermal treatments. Applied Surface Science, 2010, 256, 6121-6132.	3.1	32
23	Polarized resonance photoemission for Nd2CuO4. Physical Review B, 1990, 41, 4811-4814.	1.1	31
24	Reversed Hysteresis during CO Oxidation over Pd75Ag25(100). ACS Catalysis, 2016, 6, 4154-4161.	5.5	31
25	Mechanism and Dynamics of the CO-Induced Lifting of the Pt(100) Surface Reconstruction. Physical Review Letters, 2003, 90, 066106.	2.9	30
26	Comparing Surface Binding of the Maleic Anhydride Anchor Group on Single Crystalline Anatase TiO ₂ (101), (100), and (001) Surfaces. Journal of Physical Chemistry C, 2010, 114, 15015-15020.	1.5	29
27	Probing the influence from residual Ti interstitials on water adsorption on TiO ₂ (110). Physical Review B, 2012, 86, .	1.1	28
28	CO adsorption on the Rh(100) surface studied by high resolution photoelectron spectroscopy. Surface Science, 1998, 415, L1020-L1026.	0.8	27
29	Growth and alloy formation studied by photoelectron spectroscopy and STM. Surface Science, 1999, 425, 57-67.	0.8	26
30	Competing water dissociation channels on rutile TiO ₂ (110). Surface Science, 2014, 621, 77-81.	0.8	25
31	Formation of the CO-induced (3 Å ⁻¹) surface structure on Co(112̄,0) studied by STM. Surface Science, 1998, 397, 322-332.	0.8	24
32	Microstructural studies of self-supported (1.5 × 10 ⁻⁴ m) Pd/23wt%Ag hydrogen separation membranes subjected to different heat treatments. Journal of Materials Science, 2009, 44, 4429-4442.	1.7	23
33	A Molecular Mechanism for the Water-Hydroxyl Balance during Wetting of TiO ₂ . Journal of Physical Chemistry C, 2013, 117, 17078-17083.	1.5	22
34	Chemisorption and dissociation of O ₂ on Pd studied by STM. Surface Science, 2003, 547, 162-170.	0.8	21
35	Reduction behavior of oxidized Pd(100) and Pd75Ag25(100) surfaces using CO. Surface Science, 2014, 621, 31-39.	0.8	19
36	Small area photoemission and photoabsorption measurements using a photoelectron microscope. Physica Scripta, 1990, 41, 413-417.	1.2	17

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37	Photoelectron spectroscopy and scanning tunneling microscopy studies of the initial growth of the Sm-on-Pt(100) interface. <i>Physical Review B</i> , 1996, 53, 16587-16594.	1.1	17
38	CO adsorption on a STM study. <i>Surface Science</i> , 1998, 402-404, 57-61.	0.8	17
39	Probing and modifying the empty-state threshold of anataseTiO ₂ : Experiments and ab initio theory. <i>Physical Review B</i> , 2008, 78, .	1.1	17
40	Adsorption of methanol and methoxy on NiAl(110) and Ni ₃ Al(111): A DFT study. <i>Surface Science</i> , 2009, 603, 2378-2386.	0.8	17
41	Near Ambient Pressure XPS Investigation of CO Oxidation Over Pd ₃ Au(100). <i>Topics in Catalysis</i> , 2017, 60, 1439-1448.	1.3	17
42	First layer water phases on anatase TiO ₂ (101). <i>Surface Science</i> , 2018, 674, 25-31.	0.8	16
43	Scanning tunnelling microscopic studies on the adsorption and decomposition of ethene on the reconstructed Pt(100)-hex-R0.7Å° surface. <i>Surface Science</i> , 2001, 477, 191-197.	0.8	15
44	Chemical vapor deposition of ordered TiO _x nanostructures on Au(111). <i>Surface Science</i> , 2013, 617, 211-217.	0.8	15
45	From small-area to imaging photoabsorption spectroscopy. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1990, 291, 19-25.	0.7	14
46	Ca 3d unoccupied states in Bi ₂ Sr ₂ CaCu ₂ O ₈ investigated by Ca L _{2,3} -x-ray-absorption near-edge structure. <i>Physical Review B</i> , 1992, 46, 8487-8495.	1.1	14
47	The surface core-level shift of the Rh (100) single-crystal surface. <i>Journal of Physics Condensed Matter</i> , 1994, 6, L7-L10.	0.7	14
48	Nanoscale structuring of SrRuO ₃ thin film surfaces by scanning tunneling microscopy. <i>Applied Surface Science</i> , 2007, 253, 4704-4708.	3.1	14
49	High resolution photoemission and x-ray absorption spectroscopy of a lepidocrocite-like TiO ₂ nanosheet on Pt(110) (1 Å– 2). <i>Journal of Chemical Physics</i> , 2011, 135, 054706.	1.2	13
50	Photoemission study of absorption mechanisms in Bi _{2.0} Sr _{1.8} Ca _{0.8} La _{0.3} Cu _{2.1} O _{8+δ} , BaBiO ₃ , and Nd _{1.85} Ce _{0.15} CuO ₄ . <i>Physical Review B</i> , 1989, 40, 8840-8843.	1.1	12
51	Synchrotron-based imaging with a magnetic projection photoelectron microscope. <i>Ultramicroscopy</i> , 1991, 36, 117-129.	0.8	12
52	Adsorption of methanol on Ni ₃ Al(111) and NiAl(110): A high resolution PES study. <i>Surface Science</i> , 2009, 603, 2370-2377.	0.8	12
53	Photoemission studies of water dissociation on rutile TiO ₂ (110): Aspects on experimental procedures and the influence of steps. <i>Applied Surface Science</i> , 2014, 303, 245-249.	3.1	12
54	TiO _x thin films grown on Pd(100) and Pd(111) by chemical vapor deposition. <i>Surface Science</i> , 2016, 649, 80-89.	0.8	12

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55	Molecular vibrations in core-ionised CO adsorbed on Co(0001) and Rh(100). Surface Science, 2001, 492, 152-160.	0.8	11
56	Acetylene chemisorption and decomposition on the Co() single crystal surface. Surface Science, 2002, 499, 183-192.	0.8	11
57	Water Adsorption on TiO ₂ Thin Films Grown on Au(111). Journal of Physical Chemistry C, 2015, 119, 6660-6669.	1.5	11
58	Defect-Induced Water Bilayer Growth on Anatase TiO ₂ (101). Langmuir, 2018, 34, 10856-10864.	1.6	11
59	CO adsorption on the Pt/Rh(100) surface studied by high-resolution photoemission. Surface Science, 2000, 458, 135-146.	0.8	10
60	AFM adhesion force measurements on conversion-coated EN AW-6082-T6 aluminium. International Journal of Adhesion and Adhesives, 2009, 29, 471-477.	1.4	10
61	Generation and oxidation of aerosol deposited PdAg nanoparticles. Surface Science, 2013, 616, 186-191.	0.8	10
62	Oxygen K near-edge-structure for thin Ce oxide films. Solid State Communications, 1991, 77, 731-734.	0.9	9
63	Photoemission study of the Ce/Rh(100) overlayer system: Hybridization of d states. Physical Review B, 1994, 50, 1976-1979.	1.1	9
64	Hybridisation and vibrational excitation of C ₂ H ₂ on Co(0001). Surface Science, 2002, 511, 351-358.	0.8	9
65	A high pressure x-ray photoelectron spectroscopy study of CO oxidation over Rh(100). Journal of Physics Condensed Matter, 2014, 26, 055003.	0.7	9
66	Growth of TiO ₂ (B)(001) on Au(111) by chemical vapor deposition. Surface Science, 2015, 633, 102-108.	0.8	9
67	Effects of K adsorption on the CO-induced restructuring of Co(11-20). Catalysis Today, 2018, 299, 37-46.	2.2	9
68	Electronic structure of Pb ₂ Sr ₂ PrCu ₃ O ₈ as studied by resonant photoemission spectroscopy. Physical Review B, 1989, 40, 6726-6730.	1.1	8
69	The optical anisotropy of Pt(100) studied by reflection anisotropy spectroscopy. Physica Status Solidi A, 1995, 152, 77-84.	1.7	8
70	Probing the conduction band edge of transition metal oxides by X-ray absorption spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2011, 183, 107-113.	0.8	8
71	Controlled modification of nanoporous gold: Chemical vapor deposition of TiO ₂ in ultrahigh vacuum. Applied Surface Science, 2013, 282, 439-443.	3.1	8
72	Core-Level Binding Energy Reveals Hydrogen Bonding Configurations of Water Adsorbed on TiO_2 110 Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 52 Td (stretchy="false")</mml:mo></mml:mrow></mml:math>		

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73	Optical properties of Y-Ba-Cu-O, an ellipsometric study. <i>Solid State Communications</i> , 1988, 67, 525-527.	0.9	6
74	Optical properties of superconducting Y _i -Ba _i -Cu _i -O. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1989, 157, 164-170.	1.2	6
75	Photoemission study of solid state reaction and initial oxidation of the Ce/Al(111) system. <i>Surface Science</i> , 1994, 303, 114-124.	0.8	6
76	IR absorption from CO molecules adsorbed onto superlattices. <i>Superlattices and Microstructures</i> , 1987, 3, 103-105.	1.4	5
77	The electronic structure of Bi _{2.0} Sr _{1.8} La _{0.3} Ca _{0.8} Cu _{2.1} O _{8+δ} superconductors studied using ultraviolet and X-ray photoelectron spectroscopy. <i>Physica C: Superconductivity and Its Applications</i> , 1989, 159, 649-653.	0.6	5
78	The (2 \times 5) carbon overlayer structure on Co(111) studied by STM. <i>Applied Physics A: Materials Science and Processing</i> , 1998, 66, S491-S494.	1.1	5
79	Molecular Spectra As a Tool in Assigning Carbon 1s Photoelectron Spectra of Physisorbed Overlayers. <i>Journal of Physical Chemistry C</i> , 2010, 114, 15383-15393.	1.5	5
80	H ₂ reduction of surface oxides on Pd-based membrane model systems – The case of Pd(100) and Pd ₇₅ Ag ₂₅ (100). <i>Applied Surface Science</i> , 2014, 313, 794-803.	3.1	5
81	The fabrication and characterization of PbTiO ₃ nanomesas realized on nanostructured SrRuO ₃ /SrTiO ₃ templates. <i>Nanotechnology</i> , 2009, 20, 255705.	1.3	4
82	Methanol adsorption on Pd(110) and Ag/Pd(110) studied by high-resolution photoelectron spectroscopy. <i>Surface Science</i> , 2010, 604, 89-97.	0.8	4
83	Photochemistry of Carboxylate on TiO ₂ (110) Studied with Synchrotron Radiation Photoelectron Spectroscopy. <i>Langmuir</i> , 2016, 32, 11456-11464.	1.6	4
84	A Theoretical Study of IR Absorption from Molecules Adsorbed onto Superlattices. <i>Physica Scripta</i> , 1987, 35, 868-873.	1.2	3
85	As capping of MBE-grown compound semiconductors; novel opportunities to interface science and device fabrication. <i>Physica Scripta</i> , 1994, T54, 216-225.	1.2	3
86	Nanoscale Etching of Metallic Perovskites Using STM. <i>Materials Research Society Symposia Proceedings</i> , 2004, 811, 140.	0.1	3
87	Chemisorption of 1,1-dichloroethene on the Si(111)-7 \times 7 surface. <i>Surface Science</i> , 2007, 601, 5510-5514.	0.8	3
88	Adsorption of methylamine on Ni ₃ Al(111) and NiAl(110) – a high resolution photoelectron spectroscopy and density functional theory study. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 395004.	0.7	3
89	Heterogeneous reaction between Li and anatase TiO ₂ nanoparticles under ultra-high vacuum. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 12283.	1.3	3
90	CO-Induced Surface Reconstruction of the Co(111) Surface – A Combined Theoretical and Experimental Investigation. <i>Journal of Physical Chemistry C</i> , 2020, 124, 28488-28499.	1.5	3

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91	Electronic structure of single crystalline $\text{Bi}_2(\text{Sr,Ca,La})_3\text{Cu}_2\text{O}_8$. Physica C: Superconductivity and Its Applications, 1989, 162-164, 1313-1314.	0.6	2
92	Adsorption and photolysis of trimethyl acetate on $\text{TiO}_2(\text{B})(001)$ studied with synchrotron radiation core level photoelectron spectroscopy. Surface Science, 2017, 666, 104-112.	0.8	2
93	Oxidation and Reduction of TiO_x Thin Films on Pd(111) and Pd(100). Journal of Physical Chemistry B, 2018, 122, 688-694.	1.2	2
94	The electronic structure of $\text{Pb}_2\text{Sr}_2\text{PrCu}_3\text{O}_8$ as studied by resonant photoemission spectroscopy. Physica C: Superconductivity and Its Applications, 1989, 162-164, 1373-1374.	0.6	1
95	Investigation of 1,1-dichloroethene interacting with the $\text{Si}(111)\sqrt{7}\times\sqrt{7}$ surface studied by scanning tunneling microscopy. Surface Science, 2009, 603, 84-90.	0.8	1
96	Adsorption of CO on Ni using high-resolution photoemission spectroscopy and density functional theory. Physical Review B, 2010, 81, .	1.1	1
97	Attracting girls to physics. AIP Conference Proceedings, 2013, , .	0.3	1
98	Spectroscopic evidence of two-dimensional character of the 90 K $\text{Bi}_2(\text{Sr,La,Ca})_3\text{Cu}_2\text{O}_8$ superconductors. Applied Physics Letters, 1989, 55, 1141-1143.	1.5	0
99	Homoepitaxial growth of Co on $\text{Co}(112\bar{1},0)$ studied by STM. Applied Surface Science, 1999, 142, 48-51.	3.1	0
100	Nanoscale surface modification of $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ thin films. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2010, 28, 407-410.	0.6	0