

# Anne Borg

## List of Publications by Year in descending order

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201575

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100  
docs citations

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times ranked

2757  
citing authors

#	ARTICLE	IF	CITATIONS
1	Core-Level Binding Energy Reveals Hydrogen Bonding Configurations of Water Adsorbed on $\text{TiO}_2$ Thin Films. <i>Journal of Physical Chemistry C</i> , 2020, 124, 28488-28499.		
2	CO-Induced Surface Reconstruction of the Co(11 $\bar{2}$ 0) Surface—A Combined Theoretical and Experimental Investigation. <i>Journal of Physical Chemistry C</i> , 2020, 124, 28488-28499.	1.5	3
3	First layer water phases on anatase TiO <sub>2</sub> (101). <i>Surface Science</i> , 2018, 674, 25-31.	0.8	16
4	Effects of K adsorption on the CO-induced restructuring of Co(11-20). <i>Catalysis Today</i> , 2018, 299, 37-46.	2.2	9
5	Oxidation and Reduction of TiO <sub>2</sub> Thin Films on Pd(111) and Pd(100). <i>Journal of Physical Chemistry B</i> , 2018, 122, 688-694.	1.2	2
6	Defect-Induced Water Bilayer Growth on Anatase TiO <sub>2</sub> (101). <i>Langmuir</i> , 2018, 34, 10856-10864.	1.6	11
7	Adsorption and photolysis of trimethyl acetate on TiO <sub>2</sub> (B)(001) studied with synchrotron radiation core level photoelectron spectroscopy. <i>Surface Science</i> , 2017, 666, 104-112.	0.8	2
8	Near Ambient Pressure XPS Investigation of CO Oxidation Over Pd <sub>3</sub> Au(100). <i>Topics in Catalysis</i> , 2017, 60, 1439-1448.	1.3	17
9	Reversed Hysteresis during CO Oxidation over Pd <sub>75</sub> Ag <sub>25</sub> (100). <i>ACS Catalysis</i> , 2016, 6, 4154-4161.	5.5	31
10	Photochemistry of Carboxylate on TiO <sub>2</sub> (110) Studied with Synchrotron Radiation Photoelectron Spectroscopy. <i>Langmuir</i> , 2016, 32, 11456-11464.	1.6	4
11	TiO <sub>x</sub> thin films grown on Pd(100) and Pd(111) by chemical vapor deposition. <i>Surface Science</i> , 2016, 649, 80-89.	0.8	12
12	Growth of TiO <sub>2</sub> (B)(001) on Au(111) by chemical vapor deposition. <i>Surface Science</i> , 2015, 633, 102-108.	0.8	9
13	Water Adsorption on TiO <sub>2</sub> Thin Films Grown on Au(111). <i>Journal of Physical Chemistry C</i> , 2015, 119, 6660-6669.	1.5	11
14	Thickness dependent effects of solubility and surface phenomena on the hydrogen transport properties of sputtered Pd <sub>77</sub> Ag <sub>23</sub> thin film membranes. <i>Journal of Membrane Science</i> , 2015, 476, 602-608.	4.1	36
15	A high pressure x-ray photoelectron spectroscopy study of CO oxidation over Rh(100). <i>Journal of Physics Condensed Matter</i> , 2014, 26, 055003.	0.7	9
16	Photoemission studies of water dissociation on rutile TiO <sub>2</sub> (110): Aspects on experimental procedures and the influence of steps. <i>Applied Surface Science</i> , 2014, 303, 245-249.	3.1	12
17	Reduction behavior of oxidized Pd(100) and Pd <sub>75</sub> Ag <sub>25</sub> (100) surfaces using CO. <i>Surface Science</i> , 2014, 621, 31-39.	0.8	19
18	H <sub>2</sub> reduction of surface oxides on Pd-based membrane model systems—The case of Pd(100) and Pd <sub>75</sub> Ag <sub>25</sub> (100). <i>Applied Surface Science</i> , 2014, 313, 794-803.	3.1	5

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19	Competing water dissociation channels on rutile TiO <sub>2</sub> (110). Surface Science, 2014, 621, 77-81.	0.8	25
20	A Molecular Mechanism for the Water-Hydroxyl Balance during Wetting of TiO <sub>2</sub> . Journal of Physical Chemistry C, 2013, 117, 17078-17083.	1.5	22
21	<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
22	Heterogeneous reaction between Li and anatase TiO <sub>2</sub> nanoparticles under ultra-high vacuum. Physical Chemistry Chemical Physics, 2013, 15, 12283.	1.3	3
23	Chemical vapor deposition of ordered TiO <sub>x</sub> nanostructures on Au(111). Surface Science, 2013, 617, 211-217.	0.8	15
24	Controlled modification of nanoporous gold: Chemical vapor deposition of TiO <sub>2</sub> in ultrahigh vacuum. Applied Surface Science, 2013, 282, 439-443.	3.1	8
25	Generation and oxidation of aerosol deposited PdAg nanoparticles. Surface Science, 2013, 616, 186-191.	0.8	10
26	Attracting girls to physics. AIP Conference Proceedings, 2013, , .	0.3	1
27	Probing the influence from residual Ti interstitials on water adsorption on TiO <sub>2</sub> (110). Physical Review B, 2012, 86, .	1.1	28
28	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
29	Surface composition of clean and oxidized Pd <sub>75</sub> Ag <sub>25</sub> (100) from photoelectron spectroscopy and density functional theory calculations. Surface Science, 2012, 606, 1777-1782.	0.8	34
30	Mixed Dissociative and Molecular Water Adsorption on Anatase TiO <sub>2</sub> (101). Journal of Physical Chemistry C, 2011, 115, 9545-9550.	1.5	104
31	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
32	High resolution photoemission and x-ray absorption spectroscopy of a lepidocrocite-like TiO <sub>2</sub> nanosheet on Pt(110) (1 Å– 2). Journal of Chemical Physics, 2011, 135, 054706.	1.2	13
33	Methanol adsorption on Pd(110) and Ag/Pd(110) studied by high-resolution photoelectron spectroscopy. Surface Science, 2010, 604, 89-97.	0.8	4
34	Surface characterization of Pd/Ag <sub>23</sub> wt% membranes after different thermal treatments. Applied Surface Science, 2010, 256, 6121-6132.	3.1	32
35	Nanoscale surface modification of La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> thin films. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2010, 28, 407-410.	0.6	0
36	Molecular Spectra As a Tool in Assigning Carbon 1s Photoelectron Spectra of Physisorbed Overlayers. Journal of Physical Chemistry C, 2010, 114, 15383-15393.	1.5	5

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37	Comparing Surface Binding of the Maleic Anhydride Anchor Group on Single Crystalline Anatase TiO <sub>2</sub> (101), (100), and (001) Surfaces. Journal of Physical Chemistry C, 2010, 114, 15015-15020.	1.5	29
38	Adsorption of methylamine on Ni <sub>3</sub> Al(111) and NiAl(110) a high resolution photoelectron spectroscopy and density functional theory study. Journal of Physics Condensed Matter, 2010, 22, 395004.	0.7	3
39	Adsorption of CO on Ni <sub>3</sub> Al(111) and NiAl(110) using high-resolution photoemission spectroscopy and density functional theory. Physical Review B, 2010, 81, .	1.1	1
40	Experimental evidence for mixed dissociative and molecular adsorption of water on a rutile TiO <sub>2</sub> without oxygen vacancies. Physical Review B, 2009, 80, .	1.1	106
41	The fabrication and characterization of PbTiO <sub>3</sub> nanomesas realized on nanostructured SrRuO <sub>3</sub> /SrTiO <sub>3</sub> templates. Nanotechnology, 2009, 20, 255705.	1.3	4
42	Adsorption of methanol and methoxy on NiAl(110) and Ni <sub>3</sub> Al(111): A DFT study. Surface Science, 2009, 603, 2378-2386.	0.8	17
43	Microstructural studies of self-supported (1.5 × 10 <sup>-4</sup> m) Pd/23 wt% Ag hydrogen separation membranes subjected to different heat treatments. Journal of Materials Science, 2009, 44, 4429-4442.	1.7	23
44	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
45	Investigation of 1,1-dichloroethene interacting with the Si(111)-7 × 7 surface studied by scanning tunneling microscopy. Surface Science, 2009, 603, 84-90.	0.8	1
46	Adsorption of methanol on Ni <sub>3</sub> Al(111) and NiAl(110): A high resolution PES study. Surface Science, 2009, 603, 2370-2377.	0.8	12
47	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
48	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
49	Water Dissociation on Single Crystalline Anatase TiO <sub>2</sub> (001) Studied by Photoelectron Spectroscopy. Journal of Physical Chemistry C, 2008, 112, 16616-16621.	1.5	80
50	Probing and modifying the empty-state threshold of anatase TiO <sub>2</sub> : Experiments and ab initio theory. Physical Review B, 2008, 78, .	1.1	17
51	Chemisorption of 1,1-dichloroethene on the Si(111)-7 × 7 surface. Surface Science, 2007, 601, 5510-5514.	0.8	3
52	Nanoscale structuring of SrRuO <sub>3</sub> thin film surfaces by scanning tunneling microscopy. Applied Surface Science, 2007, 253, 4704-4708.	3.1	14
53	Nanoscale Etching of Metallic Perovskites Using STM. Materials Research Society Symposia Proceedings, 2004, 811, 140.	0.1	3
54	Chemisorption of atomic oxygen on Pd(111) studied by STM. Surface Science, 2004, 561, 69-78.	0.8	55

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55	Chemisorption and dissociation of O <sub>2</sub> on Pd studied by STM. Surface Science, 2003, 547, 162-170.	0.8	21
56	Mechanism and Dynamics of the CO-Induced Lifting of the Pt(100) Surface Reconstruction. Physical Review Letters, 2003, 90, 066106.	2.9	30
57	Acetylene chemisorption and decomposition on the Co(100) single crystal surface. Surface Science, 2002, 499, 183-192.	0.8	11
58	Hybridisation and vibrational excitation of C <sub>2</sub> H <sub>2</sub> on Co(100). Surface Science, 2002, 511, 351-358.	0.8	9
59	Ordered structures of CO on Pd(111) studied by STM. Surface Science, 2002, 512, 48-60.	0.8	115
60	Subsurface impurities in Pd(111) studied by scanning tunneling microscopy. Journal of Chemical Physics, 2001, 115, 10927-10934.	1.2	77
61	Scanning tunnelling microscopic studies on the adsorption and decomposition of ethene on the reconstructed Pt(100)-hex- $\sqrt{7}\times\sqrt{7}$ surface. Surface Science, 2001, 477, 191-197.	0.8	15
62	Molecular vibrations in core-ionised CO adsorbed on Co(100) and Rh(100). Surface Science, 2001, 492, 152-160.	0.8	11
63	CO adsorption on the Pt/Rh(100) surface studied by high-resolution photoemission. Surface Science, 2000, 458, 135-146.	0.8	10
64	Homoepitaxial growth of Co on Co(112̄,0) studied by STM. Applied Surface Science, 1999, 142, 48-51.	3.1	0
65	Growth and alloy formation studied by photoelectron spectroscopy and STM. Surface Science, 1999, 425, 57-67.	0.8	26
66	CO and O <sub>2</sub> adsorption on the Re/Pt(111) surface studied by photoemission and thermal desorption.. Surface Science, 1999, 440, 290-300.	0.8	38
67	The ( $\sqrt{5}\times\sqrt{5}$ ) carbon overlayer structure on Co(110) studied by STM. Applied Physics A: Materials Science and Processing, 1998, 66, S491-S494.	1.1	5
68	Formation of the CO-induced ( $\sqrt{3}\times\sqrt{3}$ ) surface structure on Co(112̄,0) studied by STM. Surface Science, 1998, 397, 322-332.	0.8	24
69	CO adsorption on Cu(100) - a STM study. Surface Science, 1998, 402-404, 57-61.	0.8	17
70	Nucleation and growth of Au overlayers on Pt(100)-hex- $\sqrt{7}\times\sqrt{7}$ studied by STM and photoelectron spectroscopy. Surface Science, 1998, 409, 1-15.	0.8	42
71	CO adsorption on the Rh(100) surface studied by high resolution photoelectron spectroscopy. Surface Science, 1998, 415, L1020-L1026.	0.8	27
72	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

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73	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
74	The optical anisotropy of Pt(100) studied by reflection anisotropy spectroscopy. <i>Physica Status Solidi A</i> , 1995, 152, 77-84.	1.7	8
75	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
76	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
77	Photoemission study of the Ce/Rh(100) overlayer system: Hybridization of d states. <i>Physical Review B</i> , 1994, 50, 1976-1979.	1.1	9
78	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
79	STM studies of clean, CO- and O <sub>2</sub> -exposed Pt(100)-hex-R0.7Å°. <i>Surface Science</i> , 1994, 306, 10-20.	0.8	127
80	Observation of a low-binding-energy peak in the 2p core-level photoemission from oxidized Al(111). <i>Physical Review B</i> , 1993, 47, 13063-13066.	1.1	45
81	Ca 3d unoccupied states in Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> investigated by Ca L <sub>2,3</sub> -x-ray-absorption near-edge structure. <i>Physical Review B</i> , 1992, 46, 8487-8495.	1.1	14
82	Capping and decapping of MBE grown GaAs(001), Al <sub>0.5</sub> Ga <sub>0.5</sub> As(001), and AlAs(001) investigated with ASP, PES, LEED, and RHEED. <i>Applied Surface Science</i> , 1992, 56-58, 74-80.	3.1	37
83	Oxygen K near-edge-structure for thin Ce oxide films. <i>Solid State Communications</i> , 1991, 77, 731-734.	0.9	9
84	Synchrotron-based imaging with a magnetic projection photoelectron microscope. <i>Ultramicroscopy</i> , 1991, 36, 117-129.	0.8	12
85	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
86	Core level photoelectron microscopy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1990, 52, 797-810.	0.8	33
87	Small area photoemission and photoabsorption measurements using a photoelectron microscope. <i>Physica Scripta</i> , 1990, 41, 413-417.	1.2	17
88	Polarized resonance photoemission for Nd <sub>2</sub> CuO <sub>4</sub> . <i>Physical Review B</i> , 1990, 41, 4811-4814.	1.1	31
89	Photoemission study of CoO. <i>Physical Review B</i> , 1990, 42, 1817-1828.	1.1	191
90	Photoemission study of absorption mechanisms in Bi <sub>2.0</sub> Sr <sub>1.8</sub> Ca <sub>0.8</sub> La <sub>0.3</sub> Cu <sub>2.1</sub> O <sub>8+δ</sub> , BaBiO <sub>3</sub> , and Nd <sub>1.85</sub> Ce <sub>0.15</sub> CuO <sub>4</sub> . <i>Physical Review B</i> , 1989, 40, 8840-8843.	1.1	12

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91	Spectroscopic evidence of two-dimensional character of the 90 K $\text{Bi}_2(\text{Sr},\text{La},\text{Ca})_3\text{Cu}_2\text{O}_8$ superconductors. Applied Physics Letters, 1989, 55, 1141-1143.	1.5	0
92	Photoemission study of monoclinic $\text{BaBiO}_3$ . Physical Review B, 1989, 40, 6912-6918.	1.1	55
93	Electronic structure of $\text{Pb}_2\text{Sr}_2\text{PrCu}_3\text{O}_8$ as studied by resonant photoemission spectroscopy. Physical Review B, 1989, 40, 6726-6730.	1.1	8
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	Optical properties of superconducting $\text{Y-Ba-Cu-O}$ . Physica A: Statistical Mechanics and Its Applications, 1989, 157, 164-170.	1.2	6
96	Electronic structure of single crystalline $\text{Bi}_2(\text{Sr},\text{Ca},\text{La})_3\text{Cu}_2\text{O}_8$ . Physica C: Superconductivity and Its Applications, 1989, 162-164, 1313-1314.	0.6	2
97	The electronic structure of $\text{Bi}_{2.0}\text{Sr}_{1.8}\text{La}_{0.3}\text{Ca}_{0.8}\text{Cu}_{2.1}\text{O}_8$ superconductors studied using ultraviolet and X-ray photoelectron spectroscopy. Physica C: Superconductivity and Its Applications, 1989, 159, 649-653.	0.6	5
98	Optical properties of $\text{Y-Ba-Cu-O}$ , an ellipsometric study. Solid State Communications, 1988, 67, 525-527.	0.9	6
99	A Theoretical Study of IR Absorption from Molecules Adsorbed onto Superlattices. Physica Scripta, 1987, 35, 868-873.	1.2	3
100	IR absorption from $\text{CO}$ molecules adsorbed onto superlattices. Superlattices and Microstructures, 1987, 3, 103-105.	1.4	5