

Andrew Cc Hodgson

List of Publications by Year in descending order

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90
papers

5,470
citations

94433

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73
g-index

95
all docs

95
docs citations

95
times ranked

4156
citing authors

#	ARTICLE	IF	CITATIONS
1	Water Dissociation and Hydroxyl Formation on Ni(110). Journal of Physical Chemistry C, 2020, 124, 23815-23822.	3.1	10
2	Hydration of a 2D Supramolecular Assembly: Bitartrate on Cu(110). Journal of the American Chemical Society, 2020, 142, 13814-13822.	13.7	8
3	Formation of Linear Water Chains on Ni(110). Journal of Physical Chemistry Letters, 2020, 11, 2121-2126.	4.6	7
4	Strain Relief during Ice Growth on a Hexagonal Template. Journal of the American Chemical Society, 2019, 141, 8599-8607.	13.7	24
5	Structural Changes to Supported Water Nanoislands Induced by Kosmotropic Ions. Journal of Physical Chemistry C, 2019, 123, 6861-6868.	3.1	5
6	Two-Dimensional Wetting of a Stepped Copper Surface. Physical Review Letters, 2018, 120, 076101.	7.8	28
7	Detecting Mechanochemical Atropisomerization within an STM Break Junction. Journal of the American Chemical Society, 2018, 140, 710-718.	13.7	38
8	Ice Nucleation on a Corrugated Surface. Journal of the American Chemical Society, 2018, 140, 15804-15811.	13.7	30
9	Bias-Driven Conductance Increase with Length in Porphyrin Tapes. Journal of the American Chemical Society, 2018, 140, 12877-12883.	13.7	84
10	The reactivity of water and OH on Pt–Ni(111) films. Physical Chemistry Chemical Physics, 2018, 20, 16743-16748.	2.8	6
11	Chiral segregation driven by a dynamical response of the adsorption footprint to the local adsorption environment: bitartrate on Cu(110). Physical Chemistry Chemical Physics, 2017, 19, 7617-7623.	2.8	10
12	Water and its partially dissociated fragments at metal surfaces. International Reviews in Physical Chemistry, 2017, 36, 1-38.	2.3	17
13	Water at Interfaces. Chemical Reviews, 2016, 116, 7698-7726.	47.7	536
14	The role of lattice parameter in water adsorption and wetting of a solid surface. Physical Chemistry Chemical Physics, 2014, 16, 24018-24025.	2.8	13
15	The Influence of Water and Hydroxyl on a Bimetallic (111) Sn/Pt Surface Alloy. Journal of Physical Chemistry C, 2013, 117, 4032-4039.	3.1	11
16	Spherical momentum distribution of the protons in hexagonal ice from modeling of inelastic neutron scattering data. Journal of Chemical Physics, 2012, 136, 024504.	3.0	43
17	Strain relief and disorder in commensurate water layers formed on Pd(111). Journal of Physics Condensed Matter, 2012, 24, 124102.	1.8	14
18	Water-hydroxyl phases on an open metal surface: breaking the ice rules. Chemical Science, 2012, 3, 93-102.	7.4	45

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19	A molecular perspective of water at metal interfaces. Nature Materials, 2012, 11, 667-674.	27.5	568
20	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mo stretchy="false"} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle \text{Å} \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle \text{Type Qq0 00gBT /Ov}$ by Bjerrum Defects. Physical Review Letters, 2011, 106, 046103.	7.8	37
21	Tailoring the Structure of Water at a Metal Surface: A Structural Analysis of the Water Bilayer Formed on an Alloy Template. Physical Review Letters, 2011, 106, 226101.	7.8	37
22	A one-dimensional ice structure built from pentagons. Nature Materials, 2009, 8, 427-431.	27.5	212
23	Water adsorption and the wetting of metal surfaces. Surface Science Reports, 2009, 64, 381-451.	7.2	650
24	Order and disorder in the wetting layer on Ru(0001). Faraday Discussions, 2009, 141, 231-249.	3.2	39
25	Wetting of mixed OH ⁺ •H ₂ O layers on Pt(111). Journal of Chemical Physics, 2008, 128, 074701.	3.0	37
26	Comment on "Dissociation of Water Buried under Ice on Pt(111)". Physical Review Letters, 2007, 99, 109601; author reply 109602.	7.8	5
27	Multilayer Growth and Wetting of Ru(0001). Journal of Physical Chemistry C, 2007, 111, 5946-5953.	3.1	49
28	Water monolayer and multilayer adsorption on Ni(111). Surface Science, 2007, 601, 268-273.	1.9	53
29	Mixed water/OH structures on Pd(111). Surface Science, 2007, 601, 562-568.	1.9	38
30	Water desorption from an oxygen covered Pt(111) surface: Multichannel desorption. Journal of Chemical Physics, 2006, 124, 204712.	3.0	21
31	Growth of intact water ice on Ru(0001) between 140 and 160 K: Experiment and density-functional theory calculations. Physical Review B, 2006, 73, .	3.2	125
32	The morphology of thin water films on Pt(111) probed by chloroform adsorption. Chemical Physics Letters, 2006, 417, 1-5.	2.6	40
33	Structure of water adsorbed on the open Cu(110) surface: H-up, H-down, or both?. Chemical Physics Letters, 2006, 429, 415-419.	2.6	82
34	The structure of the mixed OH+H ₂ O overlayer on Pt{111}. Journal of Chemical Physics, 2005, 123, 064711.	3.0	45
35	Water and mixed OH/water adsorption at close packed metal surfaces. Current Opinion in Solid State and Materials Science, 2005, 9, 11-18.	11.5	33
36	The structure and crystallization of thin water films on Pt(111). Journal of Chemical Physics, 2005, 123, 174701.	3.0	110

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37	Hydrogen Bonding in MixedOH+H2OOverlayers on Pt(111). Physical Review Letters, 2004, 92, 046102.	7.8	179
38	Influence of alkali coadsorption on hydrogen recombination at Cu(111). Surface Science, 2004, 566-568, 186-191.	1.9	5
39	Intact and dissociative adsorption of water on Ru(0001). Chemical Physics Letters, 2004, 388, 89-93.	2.6	122
40	Electron induced restructuring of crystalline ice adsorbed on Pt(111). Surface Science, 2003, 528, 15-19.	1.9	57
41	Desorption from thin films of amorphous HCl hydrate. Surface Science, 2003, 532-535, 478-482.	1.9	12
42	State-resolved measurements of surface reaction dynamics. Chemical Physics of Solid Surfaces, 2003, 11, 143-175.	0.3	5
43	Adsorption and Solvation of HCl into Ice Surfaces. Journal of Physical Chemistry B, 2002, 106, 3950-3959.	2.6	36
44	Uptake and Reaction of ClONO ₂ on Water Ice and HCl Trihydrate at Low Temperatures. Journal of Physical Chemistry A, 2002, 106, 9226-9232.	2.5	8
45	Growth of thin crystalline ice films on Pt(). Surface Science, 2002, 505, 171-182.	1.9	193
46	Dynamics of D resurfacing on Ni(111) and reaction with chemisorbed D. Chemical Physics Letters, 2002, 364, 522-527.	2.6	10
47	Product State Measurements of Nitrogen Formation at Surfaces. , 2001, , 887-900.		2
48	State resolved desorption measurements as a probe of surface reactions. Progress in Surface Science, 2000, 63, 1-61.	8.3	141
49	N ₂ O adsorption and reaction at Pd(110). Surface Science, 2000, 463, 1-10.	1.9	59
50	Energy disposal during desorption of D ₂ from the surface and subsurface region of Ni(111). Faraday Discussions, 2000, 117, 133-146.	3.2	21
51	Inverted vibrational distributions from N ₂ recombination at Ru(001): Evidence for a metastable molecular chemisorption well. Journal of Chemical Physics, 1999, 110, 6954-6962.	3.0	73
52	Dissociation dynamics on ordered surface alloys. Journal of Physics Condensed Matter, 1999, 11, 8397-8415.	1.8	12
53	Nitrogen induced restructuring of Cu(111) and explosive desorption of N ₂ . Surface Science, 1998, 415, 48-61.	1.9	37
54	Deuterium dissociation on ordered Sn/Pt(111) surface alloys. Journal of Chemical Physics, 1998, 109, 3255-3264.	3.0	64

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55	Adsorption and desorption dynamics of H ₂ and D ₂ on Cu(111): The role of surface temperature and evidence for corrugation of the dissociation barrier. <i>Journal of Chemical Physics</i> , 1998, 108, 4199-4211.	3.0	114
56	Nitrogen recombination dynamics at Cu(111): Rotational energy release and product angular distributions. <i>Journal of Chemical Physics</i> , 1998, 109, 3619-3628.	3.0	32
57	Role of Surface Thermal Motion in the Dissociative Chemisorption and Recombinative Desorption of D ₂ on Ag(111). <i>Physical Review Letters</i> , 1997, 78, 4458-4461.	7.8	36
58	Rotational Excitation and Vibrational Relaxation of H ₂ ($\bar{l}...=1, j=0$) Scattered from Cu(111). <i>Physical Review Letters</i> , 1997, 78, 963-966.	7.8	77
59	Vibrational state dependence of D ₂ dissociation on Ag(111). <i>Journal of Chemical Physics</i> , 1997, 106, 4714-4722.	3.0	23
60	On the recombinative desorption of N ₂ from Ag(111). <i>Surface Science</i> , 1997, 387, 102-111.	1.9	39
61	Translational energy release in the recombinative desorption of H ₂ from Ag(111). <i>Surface Science</i> , 1997, 390, 29-34.	1.9	28
62	Translational and vibrational energy release in nitrogen recombinative desorption from Cu(111). <i>Chemical Physics Letters</i> , 1997, 279, 112-118.	2.6	22
63	Internal state distributions for D ₂ recombinative desorption from Ag(111). <i>Surface Science</i> , 1996, 368, 55-60.	1.9	17
64	Endothermic dissociative chemisorption of molecular D ₂ on Ag(111). <i>Chemical Physics Letters</i> , 1995, 243, 133-139.	2.6	33
65	The influence of electronic structure on D ₂ activated dissociative chemisorption at Cu ₈₅ Pd ₁₅ {110}. <i>Surface Science</i> , 1995, 325, 57-67.	1.9	13
66	The recombinative desorption of D ₂ from Ag(111): temperature-programmed desorption and low energy electron diffraction. <i>Surface Science</i> , 1995, 328, 67-79.	1.9	25
67	Initial stages of Fe(110) oxidation at 300 K: kinetics and structure. <i>Surface Science</i> , 1995, 331-333, 133-137.	1.9	39
68	DISSOCIATIVE CHEMISORPTION OF H ₂ (D ₂) AT Fe(110). <i>Surface Review and Letters</i> , 1994, 01, 693-696.	1.1	6
69	DISSOCIATION OF O ₂ ON Fe(110). <i>Surface Review and Letters</i> , 1994, 01, 501-503.	1.1	2
70	The kinetics of O ₂ dissociative chemisorption on Fe(110). <i>Surface Science</i> , 1994, 319, 119-130.	1.9	27
71	Dissociative chemisorption of O ₂ on Cu(110). <i>Surface Science</i> , 1993, 293, 211-226.	1.9	62
72	Scattering and dissociation of H ₂ /D ₂ at Fe(110). <i>Faraday Discussions</i> , 1993, 96, 161.	3.2	20

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73	Energy transfer and vibrational effects in the dissociation and scattering of D ₂ from Cu (111). <i>Nature</i> , 1992, 356, 501-504.	27.8	107
74	Scattering of vibrationally excited H ₂ from Cu(111). <i>Chemical Physics Letters</i> , 1991, 182, 152-158.	2.6	46
75	Two-photon resonance ionisation spectroscopy of OH/OD D 2 ¹ Σ ⁺ . <i>Chemical Physics Letters</i> , 1991, 179, 422-428.	2.6	18
76	Adsorption of oxygen on Cu(110). <i>Journal of Physics Condensed Matter</i> , 1991, 3, S71-S76.	1.8	11
77	Scattering of vibrationally excited H ₂ (D ₂) from Cu(111). <i>Journal of Physics Condensed Matter</i> , 1991, 3, S217-S222.	1.8	0
78	Vibrationally assisted sticking at metal surfaces. <i>Chemical Physics Letters</i> , 1988, 147, 425-429.	2.6	33
79	Vector Correlations in Molecular Photodissociation: H ₂ O ₂ , HONO ₂ and (CH ₃) ₃ COOH. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1988, 92, 264-273.	0.9	39
80	Comment on "Sensitive quantum state selective detection of H ₂ O and D ₂ O by (2+1) resonance enhanced multiphoton ionization". <i>Journal of Chemical Physics</i> , 1987, 86, 7246-7247.	3.0	2
81	A tunnelling model for activated adsorption at metal surfaces. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1987, 45, 207-213.	1.7	27
82	Molecular emission from H ₂ O/D ₂ O [C ₁]B ₁ and photodissociation dynamics on the [C ₁]A ₁ surface. <i>Molecular Physics</i> , 1986, 57, 129-147.	1.7	45
83	Photodissociation dynamics of H ₂ O ₂ at 248 nm. Photofragment quantum-state distributions and vector correlations. <i>Faraday Discussions of the Chemical Society</i> , 1986, 82, 25.	2.2	69
84	Photodissociation of H ₂ O ₂ at 248 nm: translational anisotropy and OH product state distributions. <i>Chemical Physics Letters</i> , 1986, 128, 264-269.	2.6	76
85	Rotational State Dependence of the Predissociation Dynamics in H ₂ O, D ₂ O (C ₁ ⁺ B ₁ and I ₂ ⁺ A ₁). <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1985, 89, 251-254.	0.9	3
86	Quantum state-selected photodissociation dynamics in H ₂ O and D ₂ O. <i>Molecular Physics</i> , 1985, 54, 351-368.	1.7	90
87	Absolute rate constants for the reaction of fluorine atoms with H ₂ , CH ₂ Cl ₂ , CH ₂ ClF, CH ₂ F ₂ and CHCl ₃ . <i>Journal of the Chemical Society, Faraday Transactions 2</i> , 1985, 81, 443.	1.1	18
88	The A ² Σ ⁺ state of BO ₂ . Radiative lifetime, electronic quenching and coupling with X ² Σ ⁺ g. <i>Journal of the Chemical Society, Faraday Transactions 2</i> , 1985, 81, 1445.	1.1	6
89	Quantum-state-selected photodissociation of H ₂ O(C ₁ ⁺ B ₁). <i>Chemical Physics Letters</i> , 1984, 107, 1-5.	2.6	47
90	Kinetics and detection of F(2P) atoms in a discharge flow system. <i>Chemical Physics</i> , 1983, 79, 351-360.	1.9	21