Robert G Jones

List of Publications by Citations

146	4,788	38	63
papers	citations	h-index	g-index
148	5,024	3	5.13
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
146	Vapourisation of ionic liquids. *Physical Chemistry Chemical Physics*, **2007**, 9, 982-90	3.6	337
145	True nature of an archetypal self-assembly system: mobile Au-thiolate species on Au(111). *Physical Review Letters*, **2006**, 97, 166102	7.4	233
144	Atop adsorption site of sulphur head groups in gold-thiolate self-assembled monolayers. *Chemical Physics Letters*, **2004**, 389, 87-91	2.5	166
143	Surface structure determination using x-ray standing waves. *Reports on Progress in Physics*, **2005**, 68, 743-798	14.4	149
142	Measuring and predicting Delta(vap)H298 values of ionic liquids. *Physical Chemistry Chemical Physics*, **2009**, 11, 8544-55	3.6	143
141	Charging of ionic liquid surfaces under X-ray irradiation: the measurement of absolute binding energies by XPS. *Physical Chemistry Chemical Physics*, **2011**, 13, 2797-808	3.6	128
140	Simple x-ray standing-wave technique and its application to the investigation of the Cu(111) (sqrt 3 sqrt 3)R30 degrees -Cl structure. *Physical Review Letters*, **1987**, 58, 1460-1462	7.4	124
139	A simple X-ray standing wave technique for surface structure determination - theory and an application. *Surface Science*, **1988**, 195, 237-254	1.8	118
138	Structural study of alkali/simple metal adsorption: Rb and Na on Al(111). *Physical Review Letters*, **1992**, 68, 3204-3207	7.4	106
137	Following local adsorption sites through a surface chemical reaction: CH3SH on Cu(111). *Physical Review Letters*, **2000**, 84, 119-22	7.4	98
136	Halogen adsorption on solid surfaces. *Progress in Surface Science*, **1988**, 27, 25-160	6.6	98
135	High vacuum distillation of ionic liquids and separation of ionic liquid mixtures. *Physical Chemistry Chemical Physics*, **2010**, 12, 1772-83	3.6	94
134	The chemisorption of mercury on tungsten (100): Adsorption and desorption kinetics, equilibrium properties and surface structure. *Surface Science*, **1978**, 71, 59-74	1.8	78
133	Vaporisation of an ionic liquid near room temperature. *Physical Chemistry Chemical Physics*, **2010**, 12, 8893-901	3.6	71
132	Water adsorption on a liquid surface. *Chemical Communications*, **2007**, 4866-8	5.8	71
131	The structure of mercaptide on Cu(111): a case of molecular adsorbate-induced substrate reconstruction. *Surface Science*, **1989**, 215, 566-576	1.8	68
130	Halogen adsorption on Fe(100). *Surface Science*, **1979**, 84, 449-461	1.8	67

129	Pyrrolidinium-based ionic liquids. 1-Butyl-1-methyl pyrrolidinium dicyanoamide: thermochemical measurement, mass spectrometry, and ab initio calculations. *Journal of Physical Chemistry B*, **2008**, 112, 11734-42	3.4	66
128	Non-dipole effects in photoelectron-monitored X-ray standing wave experiments: characterisation and calibration. *Surface Science*, **2001**, 494, 166-182	1.8	61
127	The enthalpies of vaporisation of ionic liquids: new measurements and predictions. *Physical Chemistry Chemical Physics*, **2012**, 14, 3181-93	3.6	60
126	Investigation of the Cu(111) (□ □)R30°-Cl structure using sexafs and photoelectron diffraction. *Surface Science*, **1987**, 182, 213-230	1.8	60
125	Mono- and multi-layer adsorption of an ionic liquid on Au(110). *Physical Chemistry Chemical Physics*, **2012**, 14, 6054-66	3.6	57
124	Chlorine adsorption and diffusion on Cu(111). *Surface Science*, **1996**, 348, 115-132	1.8	56
123	Surface adsorption structures in 1-octanethiol self-assembled on Cu(111). *Surface Science*, **1997**, 392, 143-152	1.8	55
122	X-ray Studies of Self-Assembled Monolayers on Coinage Metals. 2. Surface Adsorption Structures in 1-Octanethiol on Cu(111) and Ag(111) and Their Determination by the Normal Incidence X-ray Standing Wave Technique. *Langmuir*, **1999**, 15, 8856-8866	4	55
121	Halogen adsorption on Fe(100). *Surface Science*, **1979**, 88, 348-366	1.8	55
120	A SEXAFS and X-ray standing wave study of the surface: Adsorbate-substrate and adsorbate-adsorbate registry. *Surface Science*, **1990**, 230, 13-26	1.8	54
119	Fractional and zero order desorption kinetics of adsorbed monolayers: The role of attractive lateral interactions in the Hg/W(100) system. *Surface Science*, **1979**, 82, 540-548	1.8	52
118	0.1–10 keV soft X-ray beamline for surface EXAFS studies at the Daresbury SRS. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **1986**, 246, 131-133	1.2	50
117	Thermodynamic measurements for N2 adsorption on Ni(100). *Surface Science*, **1984**, 141, 455-472	1.8	50
116	Non-dipole photoemission effects in x-ray standing wavefield determination of surface structure. *Journal of Physics Condensed Matter*, **1998**, 10, L623-L629	1.8	48
115	Sampling depths in total yield and reflectivity SEXAFS studies in the soft X-ray region. *Surface Science*, **1982**, 114, 38-46	1.8	48
114	The structure of sodium adsorption phases on Al(111). *Surface Science*, **1992**, 278, 246-262	1.8	46
113	Halogen adsorption on Fe(100). *Surface Science*, **1979**, 88, 331-347	1.8	46
112	Vaporisation of a dicationic ionic liquid. *ChemPhysChem*, **2009**, 10, 337-40	3.2	45

111	A structural study of the interaction of SO2 with Cu(111). *Surface Science*, **2000**, 459, 231-244	1.8	45
110	Structural determination of the (111) -(□ □) 30□ surface using the normal incidence X-ray standing wave method. *Surface Science*, **1995**, 324, 122-132	1.8	41
109	Vaporisation and thermal decomposition of dialkylimidazolium halide ion ionic liquids. *Physical Chemistry Chemical Physics*, **2014**, 16, 1339-53	3.6	38
108	The Structure of Atomic Sulfur Phases on Au(111). *Journal of Physical Chemistry C*, **2007**, 111, 10904-10914	3.8	37
107	Atomic quadrupolar photoemission asymmetry parameters from a solid state measurement. *Physical Review Letters*, **2000**, 84, 2346-9	7.4	37
106	Mercury adsorption on Ni{100}. *Surface Science*, **1987**, 188, 87-106	1.8	35
105	Bromine adsorption on Cu(111). *Surface Science*, **1997**, 370, L219-L225	1.8	34
104	Mercury adsorption on Ni(111). *Surface Science*, **1990**, 232, 229-242	1.8	33
103	The adsorption of I2 on Ni{100} studied by AES, LEED and thermal desorption. *Vacuum*, **1981**, 31, 411-415	3.7	33
102	The vapour of imidazolium-based ionic liquids: a mass spectrometry study. *Physical Chemistry Chemical Physics*, **2011**, 13, 16841-50	3.6	31
101	Structure investigation of Ag(111)(radical7x radical7)R19 degrees -SCH3 by X-ray standing waves: a case of thiol-induced substrate reconstruction. *Journal of Physical Chemistry B*, **2006**, 110, 2164-70	3.4	31
100	Halocarbon adsorption on Fe(100). *Surface Science*, **1979**, 88, 367-383	1.8	31
99	The chemisorption of mercury on Fe(100): adsorption and desorption kinetics, equilibrium properties and surface structure. *Vacuum*, **1981**, 31, 493-498	3.7	31
98	The formation of a surface iodide on Ni{100} and adsorption of I2 at low temperatures. *Surface Science*, **1983**, 127, 424-440	1.8	30
97	The structure of sulphur adsorption phases on Ni(111) studied by X-ray standing wavefield absorption. *Surface Science*, **1996**, 366, 260-274	1.8	29
96	A mercaptide intermediate on Cu(111). *Surface Science*, **1987**, 189-190, 529-534	1.8	28
95	The structure of the Au(111)/methylthiolate interface: new insights from near-edge x-ray absorption spectroscopy and x-ray standing waves. *Journal of Chemical Physics*, **2009**, 130, 124708	3.9	27
94	The structure of the surface phase: a new normal-incidence X-ray standing wave study. *Surface Science*, **2000**, 453, 183-190	1.8	27

93	1,2-dichloroethane adsorption on Cu(111): molecular adsorption. *Surface Science*, **1992**, 264, 391-405	1.8	27
92	A structural study of methanethiolate adsorbed on Cu(100). *Journal of Physics Condensed Matter*, **2000**, 12, 2153-2161	1.8	26
91	An unusual adsorption site for methoxy on Al(111) surfaces. *Journal of Physics Condensed Matter*, **1992**, 4, 5043-5052	1.8	26
90	Core level photoemission study of the adsorption of iodine on Ni{100}. *Surface Science*, **1984**, 136, 23-40	1.8	26
89	Chemical-shift X-ray standing wave studies: coadsorption site determination of PFx fragments on Ni(111). *Surface Science*, **1999**, 441, 515-528	1.8	25
88	Adsorption, absorption and desorption of gases at liquid surfaces: water on [C8C1Im][BF4] and [C2C1Iml][Tf2N]. *Faraday Discussions*, **2012**, 154, 265-88; discussion 313-33, 465-71	3.6	24
87	Borane-substituted imidazol-2-ylidenes: syntheses in vacuo. *Dalton Transactions*, **2011**, 40, 1463-70	4.3	23
86	Reaction and sticking probabilities using line of sight techniques: iodine on Al(111). *Surface Science*, **1999**, 424, 127-138	1.8	23
85	Mercury adsorption on Ni(111). *Surface Science*, **1990**, 232, 243-258	1.8	23
84	(2□□)rect. phase of alkylthiolate self-assembled monolayers on Au(111): A symmetry-constrained structural solution. *Physical Review B*, **2009**, 79,	3.3	22
83	A SEXAFS study of several surface phases of iodine adsorption on Ni{100}. *Surface Science*, **1987**, 179, 425-441	1.8	22
82	The local adsorption structure of SO2 on Ni(111): a normal incidence X-ray standing wavefield determination. *Surface Science*, **1997**, 389, 223-233	1.8	21
81	Structural study of 1,2-dichloroethane on Cu(111) using X-ray absorption and standing waves. *Surface Science*, **1992**, 268, 36-44	1.8	21
80	Electroanalysis of Neutral Precursors in Protic Ionic Liquids and Synthesis of High-Ionicity Ionic Liquids. *Langmuir*, **2017**, 33, 8436-8446	4	20
79	Structural investigation of Rb adsorption on Al(111) using normal incidence standing x-ray wavefield absorption triangulation. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **1992**, 10, 2148-2153	2.9	20
78	A surface phase transition driven by the density of states at the Fermi level. *Chemical Physics Letters*, **1989**, 155, 463-469	2.5	20
77	Complete Adsorption Site Information for Cl on Cu(111) Using X-Ray Absorption Fine Structure and Photoelectron Diffraction. *Europhysics Letters*, **1986**, 2, 857-861	1.6	20
76	Structural investigation of Au(111)/butylthiolate adsorption phases. *Physical Chemistry Chemical Physics*, **2010**, 12, 3229-38	3.6	19

75	Surface kinetics using line of sight techniques: the reaction of chloroform with Cu(111). *Physical Chemistry Chemical Physics*, **1999**, 1, 5223-5228	3.6	19
74	A structural study of the Al(111)(square root 3* square root 3)R30 degrees -Rb phase at different temperatures. *Journal of Physics Condensed Matter*, **1994**, 6, 1869-1880	1.8	19
73	The reaction of 1,2-dichloroethane with copper. *Catalysis Letters*, **1994**, 24, 333-342	2.8	19
72	Adsorption, Desorption, and Reaction of 1-Octyl-3-methylimidazolium Tetrafluoroborate, [C□□m][BF□] Ionic Liquid Multilayers on Cu(111). *Langmuir*, **2015**, 31, 9799-808	4	18
71	On the evaporation, bonding, and adsorbate capture of an ionic liquid on Au(111). *Chemical Science*, **2013**, 4, 2519	9.4	18
70	The local adsorption site of methylthiolate on Au(111): Bridge or atop?. *Surface Science*, **2009**, 603, 807-813	1.8	18
69	A structural study of the interaction of methanethiol with Pt(111) using X-ray standing waves. *Surface Science*, **2002**, 516, 1-15	1.8	18
68	Line of sight techniques: Providing an inventory of all species arriving at and departing from a surface. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2001**, 19, 2007-2012	2.9	18
67	A re-interpretation of the LEED structures formed by iodine on W(l10). *Surface Science*, **1981**, 105, 334-346	1.8	17
66	Methylthiolate on Au(111): adsorption and desorption kinetics. *Physical Chemistry Chemical Physics*, **2008**, 10, 1336-46	3.6	16
65	Chemical-shift X-ray standing wavefield determination of the local structure of methanethiolate phases on Ni(111). *Surface Science*, **2002**, 496, 73-86	1.8	16
64	Local geometrical structure of a Co-adsorption phase on Al(111): atop bonding due to chemical heterogeneity. *Surface Science*, **1995**, 328, L533-L538	1.8	16
63	Angular dependence of secondary electron fine structure in Auger electron spectra. *Surface Science*, **1990**, 232, L228-L231	1.8	16
62	CF3I adsorption on Ni{100}. *Vacuum*, **1988**, 38, 213-218	3.7	16
61	A surface EXAFS study of a surface iodide phase on Ni{100}. *Surface Science*, **1985**, 152-153, 443-452	1.8	16
60	The structure of PF3 adsorbed on Cu(111). *Surface Science*, **1998**, 414, 396-408	1.8	15
59	Structural Investigation of the Interaction of Molecular Sulfur with Ag(111). *Journal of Physical Chemistry C*, **2007**, 111, 3152-3162	3.8	15
58	Halocarbon adsorption on Fe(100) The adsorption of CBr4 studied by AES, LEED, work function change and thermal desorption; comparison of CBr4 with Br2 and CCl4 behaviour. *Surface Science*, **1979**, 89, 114-122	1.8	15

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56	X-ray standing waves at surfaces. *Journal of Physics Condensed Matter*, **2002**, 14, 4059-4074	1.8	14
55	A NIXSW structural investigation of the (□□)R30°-Cu2Si surface alloy phase formed by SiH4 reaction with Cu(111). *Surface Science*, **2001**, 491, L645-L650	1.8	14
54	Molecular and dissociative adsorption of 1-bromo-2-chloroethane on Cu(111). *Surface Science*, **1999**, 442, 517-530	1.8	14
53	1-Bromo-2-chloroethane adsorption on Cu(111). *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **1993**, 11, 2019-2023	2.9	14
52	Normal-incidence standing X-ray wavefield absorption and SEXAFS studies of adsorption structures on Cu and Ni surfaces. *Faraday Discussions of the Chemical Society*, **1990**, 89, 301		13
51	The local structure of SO2 and SO3 on Ni(1 1 1). *Surface Science*, **2005**, 577, 31-41	1.8	12
50	Evidence from scanning tunneling microscopy in support of a structural model for the InSb(001)-c(8□) surface. *Applied Physics Letters*, **1999**, 75, 1938-1940	3.4	12
49	Probing liquid behaviour by helium atom scattering: surface structure and phase transitions of an ionic liquid on Au(111). *Chemical Science*, **2014**, 5, 667-676	9.4	11
48	Stabilising an unstable conformer: 1,2-dichloroethane on clean and chlorinated Cu(111). *Surface Science*, **1999**, 433-435, 234-238	1.8	11
47	Reply to comments on □ re-interpretation of the leed structures formed by iodine on w(110)□by P.A. Dowben and R.G. Jones. *Surface Science*, **1982**, 116, L228-L231	1.8	11
46	A NIXSW structural investigation of the low temperature silyl phase formed by SiH4 reaction with Cu(111). *Chemical Physics Letters*, **2002**, 351, 208-212	2.5	10
45	Formation of translationally hot ethene by dissociative electron capture of adsorbed 1,2-dichloroethane. *Chemical Physics Letters*, **1996**, 261, 539-544	2.5	10
44	A solid-state ultrahigh vacuum compatible source of molecular iodine. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **1989**, 7, 3373-3374	2.9	10
43	A SEXAFS study of several surface phases of iodine adsorption on Ni{100}. *Surface Science*, **1987**, 179, 442-452	1.8	10
42	The surface structure of 1-bromo-2-chloroethane on Cu(111). *Surface Science*, **1997**, 392, 199-211	1.8	9
41	Comment on □ritical Properties, Normal Boiling Temperatures, and Acentric Factors of Fifty Ionic Liquids□*Industrial & Engineering Chemistry Research*, **2007**, 46, 6061-6062	3.9	9
40	Iodine adsorption on InSb(001) at room temperature and low temperature: surface reaction. *Journal of the Chemical Society, Faraday Transactions*, **1991**, 87, 3259		9

39	Structural study of Rb and Cl coadsorption on Cu(111): a case of overlayer compound formation. *Journal of Physics Condensed Matter*, **1997**, 9, 4593-4602	1.8	8
38	Structure of the Pentylthiolate Self-Assembled Monolayer on Ag(111). *Journal of Physical Chemistry C*, **2007**, 111, 10040-10048	3.8	8
37	Structural characterisation of molecular conformation and the incorporation of adatoms in an on-surface Ullmann-type reaction. *Communications Chemistry*, **2020**, 3,	6.3	8
36	Electrochemistry: general discussion. *Faraday Discussions*, **2018**, 206, 405-426	3.6	8
35	Line-of-sight mass spectrometry: principles and practice. *Surface and Interface Analysis*, **2015**, 47, 587-600	2.5	7
34	Direct observation of thiolate displacement reactions on Au(111): the role of physisorbed disulfides. *Langmuir*, **2005**, 21, 11684-9	4	7
33	Homo- and hetero-iodide thin film growth on InSb(001): low-temperature iodide formation and epitaxial growth of CdI2. *Applied Surface Science*, **1991**, 48-49, 27-38	6.7	7
32	Interactions and stabilisation of acetone, sulfur dioxide and water with 1-octyl-3-methylimidazolium tetrafluoroborate [OMIM][BF] at low temperatures. *Faraday Discussions*, **2018**, 206, 475-495	3.6	6
31	Quantitative adsorbate structure determination for quasicrystals using x-ray standing waves. *Physical Review Letters*, **2014**, 113, 106101	7.4	6
30	Ethene stabilised by halogens on Cu(111). *Surface Science*, **1997**, 377-379, 719-723	1.8	6
29	Structure determination of PF3 adsorption on Cu(100) using X-ray standing waves. *Surface Science*, **2008**, 602, 650-659	1.8	6
28	Surface dynamics using pulsed electron beams. *Surface Science*, **2000**, 451, 232-237	1.8	6
27	1-Chloro-2-fluoroethane Adsorption on Cu(111): Structure and Bonding. *Journal of Physical Chemistry B*, **2001**, 105, 10600-10609	3.4	6
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25	The structure of the Ni(100)c(2√2)Hg surface. *Journal of Physics Condensed Matter*, **1989**, 1, SB21-SB25	1.8	6
24	Core level photoemission study of the adsorption of iodine Ni{100}. *Vacuum*, **1983**, 33, 858-859	3.7	6
23	Structure and dynamics of ionic liquids: general discussion. *Faraday Discussions*, **2018**, 206, 291-337	3.6	6
22	Hot ethene desorption from Cu(111). *Surface Science*, **1997**, 377-379, 705-709	1.8	5

21	The adsorption of CCl4 on Ag(111): Carbene and CC bond formation. *Surface Science*, **2006**, 600, 241-248	1.8	5
20	Adsorption, decomposition, and stabilization of 1,2-dibromoethane on Cu(111). *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2001**, 19, 1474-1480	2.9	5
19	Molecular and dissociative adsorption of 2-bromo-1-chloropropane on Cu(111). *Surface Science*, **2000**, 468, 165-175	1.8	5
18	Quantitative structural study of an NaD coadsorption phase on Al(111) using X-ray standing waves. *Journal of the Chemical Society, Faraday Transactions*, **1995**, 91, 3555-3561		4
17	Evolution of adsorption heights in the on-surface synthesis and decoupling of covalent organic networks on Ag(111) by normal-incidence X-ray standing wave. *Nanoscale Horizons*, **2021**,	10.8	3
16	Supramolecular effects in self-assembled monolayers: general discussion. *Faraday Discussions*, **2017**, 204, 123-158	3.6	2
15	Supramolecular systems at liquid-solid interfaces: general discussion. *Faraday Discussions*, **2017**, 204, 271-295	3.6	2
14	single-crystal growth on Cu(111): adsorption, desorption and formation of a chemisorbed phase. *Journal of Physics Condensed Matter*, **1996**, 8, 3285-3295	1.8	2
13	CF3I adsorption on InSb(001). *Journal of the Chemical Society, Faraday Transactions*, **1995**, 91, 3603		2
12	Cyanogen iodide adsorption on Ni(100). *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **1993**, 11, 2024-2028	2.9	2
11	Surface EXAFS and magic angle spinning NMR studies of anodically formed oxide films on aluminium. *Surface and Interface Analysis*, **1986**, 9, 383-383	1.5	2
10	X-ray standing wave study of Si clusters on a decagonal Al-Co-Ni quasicrystal surface. *Physical Review B*, **2015**, 91,	3.3	1
9	Rotational epitaxy of a hexagonal layered material on a square substrate: PbI2 on InSb(001). *Surface Science*, **1994**, 310, 73-84	1.8	1
8	Thin film structural analysis using variable-period x-ray standing waves. *Physical Review B*, **2018**, 98,	3.3	1
7	Chemical shielding of H2O and HF encapsulated inside a C60 cage. *Communications Chemistry*, **2021**, 4,	6.3	1
6	Probing properties of molecule-based interface systems: general discussion and Discussion of the Concluding Remarks. *Faraday Discussions*, **2017**, 204, 503-530	3.6	
5	Chemical State-specific Surface Structure from Photoemission-monitored X-ray Standing Waves. *Synchrotron Radiation News*, **2004**, 17, 11-16	0.6	
4	The incorporation of a siliceous impurity during the anodic oxidation of aluminum in a sodium tartrate electrolyte. *Applications of Surface Science*, **1983**, 17, 124-130		

3	Reply to comments on a re-interpretation of the LEED structures formed by iodine on W(110) by P.A. Dowben and R.G. Jones. *Surface Science Letters*, **1982**, 116, L228-L231	
2	A SEXAFS Study of Iodine on Ni{100}: The Surface Iodide Phase. *Springer Proceedings in Physics*, **1984**, 258-260	0.2
1	Ionic liquids at interfaces: general discussion. *Faraday Discussions*, **2018**, 206, 549-586	3.6