

# Robert G Jones

## List of Publications by Year in descending order

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148  
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5,227  
citations

81900

39  
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102487

66  
g-index

148  
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148  
docs citations

148  
times ranked

2920  
citing authors

#	ARTICLE	IF	CITATIONS
1	Vapourisation of ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 982.	2.8	364
2	True Nature of an Archetypal Self-Assembly System: Mobile Au-Thiolate Species on Au(111). <i>Physical Review Letters</i> , 2006, 97, 166102.	7.8	239
3	Surface structure determination using x-ray standing waves. <i>Reports on Progress in Physics</i> , 2005, 68, 743-798.	20.1	178
4	Atop adsorption site of sulphur head groups in gold-thiolate self-assembled monolayers. <i>Chemical Physics Letters</i> , 2004, 389, 87-91.	2.6	175
5	Simple x-ray standing-wave technique and its application to the investigation of the Cu(111) ( $\sqrt{3} \times \sqrt{3}$ ) Tj ETQq1 1,0.784314 rrgBT /Cv	7.8	165
6	Measuring and predicting $\hat{\nu}^{\text{vap}}$ values of ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 8544.	2.8	155
7	A simple X-ray standing wave technique for surface structure determination - theory and an application. <i>Surface Science</i> , 1988, 195, 237-254.	1.9	152
8	Charging of ionic liquid surfaces under X-ray irradiation: the measurement of absolute binding energies by XPS. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 2797-2808.	2.8	144
9	Structural study of alkali/simple metal adsorption: Rb and Na on Al(111). <i>Physical Review Letters</i> , 1992, 68, 3204-3207.	7.8	110
10	High vacuum distillation of ionic liquids and separation of ionic liquid mixtures. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 1772.	2.8	104
11	Halogen adsorption on solid surfaces. <i>Progress in Surface Science</i> , 1988, 27, 25-160.	8.3	103
12	Following Local Adsorption Sites through a Surface Chemical Reaction: CH <sub>3</sub> SH on Cu(111). <i>Physical Review Letters</i> , 2000, 84, 119-122.	7.8	100
13	The chemisorption of mercury on tungsten (100): Adsorption and desorption kinetics, equilibrium properties and surface structure. <i>Surface Science</i> , 1978, 71, 59-74.	1.9	81
14	Vaporisation of an ionic liquid near room temperature. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 8893.	2.8	79
15	Water adsorption on a liquid surface. <i>Chemical Communications</i> , 2007, , 4866.	4.1	76
16	The structure of mercaptide on Cu(111): a case of molecular adsorbate-induced substrate reconstruction. <i>Surface Science</i> , 1989, 215, 566-576.	1.9	71
17	Halogen adsorption on Fe(100). <i>Surface Science</i> , 1979, 84, 449-461.	1.9	69
18	Investigation of the Cu(111) ( $\sqrt{3} \times \sqrt{3}$ ) R30°-Cl structure using sexafs and photoelectron diffraction. <i>Surface Science</i> , 1987, 182, 213-230.	1.9	69

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19	Pyrrrolidinium-Based Ionic Liquids. 1-Butyl-1-methyl Pyrrrolidinium Dicyanoamide: Thermochemical Measurement, Mass Spectrometry, and ab Initio Calculations. <i>Journal of Physical Chemistry B</i> , 2008, 112, 11734-11742.	2.6	69
20	Non-dipole effects in photoelectron-monitored X-ray standing wave experiments: characterisation and calibration. <i>Surface Science</i> , 2001, 494, 166-182.	1.9	68
21	The enthalpies of vaporisation of ionic liquids: new measurements and predictions. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 3181.	2.8	66
22	Mono- and multi-layer adsorption of an ionic liquid on Au(110). <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 6054.	2.8	64
23	Chlorine adsorption and diffusion on Cu(111). <i>Surface Science</i> , 1996, 348, 115-132.	1.9	61
24	Halogen adsorption on Fe(100). <i>Surface Science</i> , 1979, 88, 348-366.	1.9	58
25	A SEXAFS and X-ray standing wave study of the surface: Adsorbate-substrate and adsorbate-adsorbate registry. <i>Surface Science</i> , 1990, 230, 13-26.	1.9	56
26	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. <i>Langmuir</i> , 1999, 15, 8856-8866.	3.5	56
27	Fractional and zero order desorption kinetics of adsorbed monolayers: The role of attractive lateral interactions in the Hg/W(100) system. <i>Surface Science</i> , 1979, 82, 540-548.	1.9	55
28	Surface adsorption structures in 1-octanethiol self-assembled on Cu(111). <i>Surface Science</i> , 1997, 392, 143-152.	1.9	55
29	Thermodynamic measurements for N <sub>2</sub> adsorption on Ni(100). <i>Surface Science</i> , 1984, 141, 455-472.	1.9	54
30	Sampling depths in total yield and reflectivity SEXAFS studies in the soft X-ray region. <i>Surface Science</i> , 1982, 114, 38-46.	1.9	53
31	Non-dipole photoemission effects in x-ray standing wavefield determination of surface structure. <i>Journal of Physics Condensed Matter</i> , 1998, 10, L623-L629.	1.8	52
32	0.1-10 keV soft X-ray beamline for surface EXAFS studies at the Daresbury SRS. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1986, 246, 131-133.	1.6	51
33	Vaporisation of a Dicationic Ionic Liquid. <i>ChemPhysChem</i> , 2009, 10, 337-340.	2.1	50
34	A structural study of the interaction of SO <sub>2</sub> with Cu(111). <i>Surface Science</i> , 2000, 459, 231-244.	1.9	49
35	Halogen adsorption on Fe(100). <i>Surface Science</i> , 1979, 88, 331-347.	1.9	48
36	The structure of sodium adsorption phases on Al(111). <i>Surface Science</i> , 1992, 278, 246-262.	1.9	47

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37	Structural determination of the (111)-( $\sqrt{3} \times \sqrt{3}$ ) $30^\circ$ - surface using the normal incidence X-ray standing wave method. <i>Surface Science</i> , 1995, 324, 122-132.	1.9	43
38	The vapour of imidazolium-based ionic liquids: a mass spectrometry study. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 16841.	2.8	42
39	Vaporisation and thermal decomposition of dialkylimidazolium halide ion ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 1339-1353.	2.8	42
40	Atomic Quadrupolar Photoemission Asymmetry Parameters from a Solid State Measurement. <i>Physical Review Letters</i> , 2000, 84, 2346-2349.	7.8	38
41	The Structure of Atomic Sulfur Phases on Au(111). <i>Journal of Physical Chemistry C</i> , 2007, 111, 10904-10914.	3.1	38
42	Mercury adsorption on Ni{100}. <i>Surface Science</i> , 1987, 188, 87-106.	1.9	37
43	Bromine adsorption on Cu(111). <i>Surface Science</i> , 1997, 370, L219-L225.	1.9	37
44	Mercury adsorption on Ni(111). <i>Surface Science</i> , 1990, 232, 229-242.	1.9	36
45	Halocarbon adsorption on Fe(100). <i>Surface Science</i> , 1979, 88, 367-383.	1.9	34
46	The adsorption of I <sub>2</sub> on Ni{100} studied by AES, LEED and thermal desorption. <i>Vacuum</i> , 1981, 31, 411-415.	3.5	33
47	The chemisorption of mercury on Fe(100): adsorption and desorption kinetics, equilibrium properties and surface structure. <i>Vacuum</i> , 1981, 31, 493-498.	3.5	32
48	The formation of a surface iodide on Ni{100} and adsorption of I <sub>2</sub> at low temperatures. <i>Surface Science</i> , 1983, 127, 424-440.	1.9	32
49	Structure Investigation of Ag(111)( $\sqrt{7} \times \sqrt{7}$ )R19 $^\circ$ -SCH <sub>3</sub> by X-ray Standing Waves: A Case of Thiol-Induced Substrate Reconstruction. <i>Journal of Physical Chemistry B</i> , 2006, 110, 2164-2170.	2.6	31
50	A mercaptide intermediate on Cu(111). <i>Surface Science</i> , 1987, 189-190, 529-534.	1.9	30
51	The structure of sulphur adsorption phases on Ni(111) studied by X-ray standing wavefield absorption. <i>Surface Science</i> , 1996, 366, 260-274.	1.9	30
52	The structure of the Au(111)/methylthiolate interface: New insights from near-edge x-ray absorption spectroscopy and x-ray standing waves. <i>Journal of Chemical Physics</i> , 2009, 130, 124708.	3.0	30
53	1,2-dichloroethane adsorption on Cu(111): molecular adsorption. <i>Surface Science</i> , 1992, 264, 391-405.	1.9	29
54	The structure of the surface phase: a new normal-incidence X-ray standing wave study. <i>Surface Science</i> , 2000, 453, 183-190.	1.9	28



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73	Structural investigation of Rb adsorption on Al(111) using normal incidence standing x-ray wavefield absorption triangulation. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1992, 10, 2148-2153.	2.1	20
74	Structural investigation of Au(111)/butylthiolate adsorption phases. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 3229.	2.8	20
75	A re-interpretation of the LEED structures formed by iodine on W(110). <i>Surface Science</i> , 1981, 105, 334-346.	1.9	19
76	A structural study of the Al(111)( $\sqrt{3} \times \sqrt{3}$ )R30 degrees-Rb phase at different temperatures. <i>Journal of Physics Condensed Matter</i> , 1994, 6, 1869-1880.	1.8	19
77	Line of sight techniques: Providing an inventory of all species arriving at and departing from a surface. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2001, 19, 2007-2012.	2.1	19
78	Methylthiolate on Au(111): adsorption and desorption kinetics. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 1336.	2.8	19
79	The local adsorption site of methylthiolate on Au(111): Bridge or atop?. <i>Surface Science</i> , 2009, 603, 807-813.	1.9	19
80	On the evaporation, bonding, and adsorbate capture of an ionic liquid on Au(111). <i>Chemical Science</i> , 2013, 4, 2519.	7.4	19
81	CF <sub>3</sub> I adsorption on Ni{100}. <i>Vacuum</i> , 1988, 38, 213-218.	3.5	18
82	Chemical-shift X-ray standing wavefield determination of the local structure of methanethiolate phases on Ni(). <i>Surface Science</i> , 2002, 496, 73-86.	1.9	18
83	A structural study of the interaction of methanethiol with Pt using X-ray standing waves. <i>Surface Science</i> , 2002, 516, 1-15.	1.9	18
84	Halocarbon adsorption on Fe(100) The adsorption of CBr <sub>4</sub> studied by AES, LEED, work function change and thermal desorption; comparison of CBr <sub>4</sub> with Br <sub>2</sub> and CCl <sub>4</sub> behaviour. <i>Surface Science</i> , 1979, 89, 114-122.	1.9	17
85	Angular dependence of secondary electron fine structure in Auger electron spectra. <i>Surface Science</i> , 1990, 232, L228-L231.	1.9	17
86	A surface EXAFS study of a surface iodide phase on Ni{100}. <i>Surface Science</i> , 1985, 152-153, 443-452.	1.9	16
87	1-Bromo-2-chloroethane adsorption on Cu(111). <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1993, 11, 2019-2023.	2.1	16
88	Local geometrical structure of a Co-adsorption phase on Al(111): atop bonding due to chemical heterogeneity. <i>Surface Science</i> , 1995, 328, L533-L538.	1.9	16
89	A NIXSW structural investigation of the ( $\sqrt{3} \times \sqrt{3}$ )R30 degrees-Cu <sub>2</sub> Si surface alloy phase formed by SiH <sub>4</sub> reaction with Cu(111). <i>Surface Science</i> , 2001, 491, L645-L650.	1.9	16
90	Structural Investigation of the Interaction of Molecular Sulfur with Ag(111). <i>Journal of Physical Chemistry C</i> , 2007, 111, 3152-3162.	3.1	16

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91	Structural characterisation of molecular conformation and the incorporation of adatoms in an on-surface Ullmann-type reaction. <i>Communications Chemistry</i> , 2020, 3, .	4.5	16
92	The structure of PF <sub>3</sub> adsorbed on Cu(111). <i>Surface Science</i> , 1998, 414, 396-408.	1.9	15
93	Molecular and dissociative adsorption of 1-bromo-2-chloroethane on Cu(111). <i>Surface Science</i> , 1999, 442, 517-530.	1.9	15
94	X-ray standing waves at surfaces. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 4059-4074.	1.8	15
95	The local structure of SO <sub>2</sub> and SO <sub>3</sub> on Ni(111). <i>Surface Science</i> , 2005, 577, 31-41.	1.9	15
96	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. <i>Nanoscale Horizons</i> , 2021, 7, 51-62.	8.0	15
97	Normal-incidence standing X-ray wavefield absorption and SEXAFS studies of adsorption structures on Cu and Ni surfaces. <i>Faraday Discussions of the Chemical Society</i> , 1990, 89, 301.	2.2	14
98	Evidence from scanning tunneling microscopy in support of a structural model for the InSb(001)-c(8Å <sup>2</sup> ) surface. <i>Applied Physics Letters</i> , 1999, 75, 1938-1940.	3.3	14
99	Normal incidence X-ray standing wave analysis of thin gold films. <i>Surface Science</i> , 2006, 600, 4825-4828.	1.9	14
100	Probing liquid behaviour by helium atom scattering: surface structure and phase transitions of an ionic liquid on Au(111). <i>Chemical Science</i> , 2014, 5, 667-676.	7.4	13
101	Electrochemistry: general discussion. <i>Faraday Discussions</i> , 2018, 206, 405-426.	3.2	13
102	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. <i>Surface Science</i> , 1982, 116, L228-L231.	1.9	11
103	Formation of translationally hot ethene by dissociative electron capture of adsorbed 1,2-dichloroethane. <i>Chemical Physics Letters</i> , 1996, 261, 539-544.	2.6	11
104	The surface structure of 1-bromo-2-chloroethane on Cu(111). <i>Surface Science</i> , 1997, 392, 199-211.	1.9	11
105	Stabilising an unstable conformer: 1,2-dichloroethane on clean and chlorinated Cu(111). <i>Surface Science</i> , 1999, 433-435, 234-238.	1.9	11
106	A NIXSW structural investigation of the low temperature silyl phase formed by SiH <sub>4</sub> reaction with Cu(111). <i>Chemical Physics Letters</i> , 2002, 351, 208-212.	2.6	11
107	Direct Observation of Thiolate Displacement Reactions on Au(111): The Role of Physisorbed Disulfides. <i>Langmuir</i> , 2005, 21, 11684-11689.	3.5	11
108	A SEXAFS study of several surface phases of iodine adsorption on Ni{100}. <i>Surface Science</i> , 1987, 179, 442-452.	1.9	10

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109	A solid-state ultrahigh vacuum compatible source of molecular iodine. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1989, 7, 3373-3374.	2.1	10
110	Iodine adsorption on InSb(001) at room temperature and low temperature: surface reaction. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1991, 87, 3259.	1.7	10
111	Comment on "Critical Properties, Normal Boiling Temperatures, and Acentric Factors of Fifty Ionic Liquids". <i>Industrial &amp; Engineering Chemistry Research</i> , 2007, 46, 6061-6062.	3.7	10
112	Structure of the Pentylthiolate Self-Assembled Monolayer on Ag(111). <i>Journal of Physical Chemistry C</i> , 2007, 111, 10040-10048.	3.1	9
113	Structural study of Rb and Cl coadsorption on Cu(111): a case of overlayer compound formation. <i>Journal of Physics Condensed Matter</i> , 1997, 9, 4593-4602.	1.8	8
114	Structure and dynamics of ionic liquids: general discussion. <i>Faraday Discussions</i> , 2018, 206, 291-337.	3.2	8
115	Homo- and hetero-iodide thin film growth on InSb(001): low-temperature iodide formation and epitaxial growth of CdI <sub>2</sub> . <i>Applied Surface Science</i> , 1991, 48-49, 27-38.	6.1	7
116	Surface dynamics using pulsed electron beams. <i>Surface Science</i> , 2000, 451, 232-237.	1.9	7
117	Line-of-sight mass spectrometry: principles and practice. <i>Surface and Interface Analysis</i> , 2015, 47, 587-600.	1.8	7
118	Chemical shielding of H <sub>2</sub> O and HF encapsulated inside a C <sub>60</sub> cage. <i>Communications Chemistry</i> , 2021, 4, .	4.5	7
119	Core level photoemission study of the adsorption of iodine Ni{100}. <i>Vacuum</i> , 1983, 33, 858-859.	3.5	6
120	The structure of the Ni(100)(2Å-2)Hg surface. <i>Journal of Physics Condensed Matter</i> , 1989, 1, SB21-SB25.	1.8	6
121	POSSIBLE "HOT" MOLECULE DESORPTION BY ELECTRON STIMULATED DECOMPOSITION OF DIHALOETHANES ON Cu(111). <i>Surface Review and Letters</i> , 1994, 01, 535-538.	1.1	6
122	Ethene stabilised by halogens on Cu(111). <i>Surface Science</i> , 1997, 377-379, 719-723.	1.9	6
123	Hot ethene desorption from Cu(111). <i>Surface Science</i> , 1997, 377-379, 705-709.	1.9	6
124	1-Chloro-2-fluoroethane Adsorption on Cu(111): Structure and Bonding. <i>Journal of Physical Chemistry B</i> , 2001, 105, 10600-10609.	2.6	6
125	The adsorption of CCl <sub>4</sub> on Ag(111): Carbene and CC bond formation. <i>Surface Science</i> , 2006, 600, 241-248.	1.9	6
126	Structure determination of PF <sub>3</sub> adsorption on Cu(100) using X-ray standing waves. <i>Surface Science</i> , 2008, 602, 650-659.	1.9	6

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127	Quantitative Adsorbate Structure Determination for Quasicrystals Using X-Ray Standing Waves. <i>Physical Review Letters</i> , 2014, 113, 106101.	7.8	6
128	Interactions and stabilisation of acetone, sulfur dioxide and water with 1-octyl-3-methylimidazolium tetrafluoroborate [OMIM][BF <sub>4</sub> ] at low temperatures. <i>Faraday Discussions</i> , 2018, 206, 475-495.	3.2	6
129	Molecular and dissociative adsorption of 2-bromo-1-chloropropane on Cu(111). <i>Surface Science</i> , 2000, 468, 165-175.	1.9	5
130	Adsorption, decomposition, and stabilization of 1,2-dibromoethane on Cu(111). <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2001, 19, 1474-1480.	2.1	5
131	Quantitative structural study of an Na-O coadsorption phase on Al(111) using X-ray standing waves. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1995, 91, 3555-3561.	1.7	4
132	Order, disorder, and metalation of tetraphenylporphyrin (2 <i>H</i> -TPP) on Au(111). <i>Chemical Communications</i> , 2022, 58, 6247-6250.	4.1	4
133	Thin film structural analysis using variable-period x-ray standing waves. <i>Physical Review B</i> , 2018, 98, .	3.2	3
134	Surface EXAFS and magic angle spinning NMR studies of anodically formed oxide films on aluminium. <i>Surface and Interface Analysis</i> , 1986, 9, 383-383.	1.8	2
135	Cyanogen iodide adsorption on Ni(100). <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1993, 11, 2024-2028.	2.1	2
136	Rotational epitaxy of a hexagonal layered material on a square substrate: PbI <sub>2</sub> on InSb(001). <i>Surface Science</i> , 1994, 310, 73-84.	1.9	2
137	CF <sub>3</sub> I adsorption on InSb(001). <i>Journal of the Chemical Society, Faraday Transactions</i> , 1995, 91, 3603.	1.7	2
138	single-crystal growth on Cu(111): adsorption, desorption and formation of a chemisorbed phase. <i>Journal of Physics Condensed Matter</i> , 1996, 8, 3285-3295.	1.8	2
139	Supramolecular effects in self-assembled monolayers: general discussion. <i>Faraday Discussions</i> , 2017, 204, 123-158.	3.2	2
140	Supramolecular systems at liquid-solid interfaces: general discussion. <i>Faraday Discussions</i> , 2017, 204, 271-295.	3.2	2
141	X-ray standing wave study of Si clusters on a decagonal Al-Co-Ni quasicrystal surface. <i>Physical Review B</i> , 2015, 91, .	3.2	1
142	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. <i>Surface Science Letters</i> , 1982, 116, L228-L231.	0.1	0
143	The incorporation of a siliceous impurity during the anodic oxidation of aluminum in a sodium tartrate electrolyte. <i>Applications of Surface Science</i> , 1983, 17, 124-130.	1.0	0
144	Chemical State-specific Surface Structure from Photoemission-monitored X-ray Standing Waves. <i>Synchrotron Radiation News</i> , 2004, 17, 11-16.	0.8	0

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145	Probing properties of molecule-based interface systems: general discussion and Discussion of the Concluding Remarks. Faraday Discussions, 2017, 204, 503-530.	3.2	0
146	Ionic liquids at interfaces: general discussion. Faraday Discussions, 2018, 206, 549-586.	3.2	0
147	A SEXAFS Study of Iodine on Ni{100}: The Surface Iodide Phase. Springer Proceedings in Physics, 1984, , 258-260.	0.2	0
148	THE STRUCTURE OF THE Cu(111) ( $\sqrt{3} \times \sqrt{3}$ ) R30°-Cl SURFACE : A COMBINED SEXAFS AND PHOTOELECTRON DIFFRACTION STUDY. Journal De Physique Colloque, 1986, 47, C8-533-C8-538.	0.2	0