

Ian G Shuttleworth

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	A Comparative Study of Oxygen and Hydrogen Adsorption on Strained and Alloy-Supported Pt(111) Monolayers. <i>Magnetochemistry</i> , 2021, 7, 101.	2.4	4
2	The Magnetic Band-Structures of Ordered Pt _x Fe _{1-x} , Pt _x Co _{1-x} , and Pt _x Ni _{1-x} (x = 0.25, 0.50, and 0.75). <i>Magnetochemistry</i> , 2020, 6, 61.	2.4	11
3	Magnetism in the strained ordered phases of Pt _x Fe _{1-x} and Pt _x Co _{1-x} (x = 0.25, 0.5, and 0.75). <i>Journal of Physics and Chemistry of Solids</i> , 2018, 114, 153-162.	4.0	11
4	The quasiparticle band structures of ordered Ni _x Pt _{1-x} . <i>Heliyon</i> , 2018, 4, e01000.	3.2	1
5	Binding Site Transitions Across Strained Oxygenated and Hydroxylated Pt(111). <i>ChemistryOpen</i> , 2018, 7, 356-369.	1.9	6
6	Strain engineering of H/transition metal systems. <i>Surface Science</i> , 2017, 661, 49-59.	1.9	20
7	Development of the ReaxFF Reactive Force-Field Description of Gold Oxides. <i>Journal of Physical Chemistry C</i> , 2017, 121, 25255-25270.	3.1	2
8	The effects of strain on the ordered phases of Ni _x Pt _{1-x} (x = 0.25, 0.5, and 0.75). <i>Chemical Physics Letters</i> , 2017, 689, 41-47.	2.6	5
9	Strain Engineering of the CeNi ₅ System. <i>Magnetochemistry</i> , 2016, 2, 39.	2.4	4
10	Controlled FCC/on-top binding of H/Pt(111) using surface stress. <i>Applied Surface Science</i> , 2016, 378, 286-292.	6.1	15
11	Non-linear modelling of the effects of strain on transition metal surfaces. <i>Chemical Physics Letters</i> , 2016, 666, 51-57.	2.6	9
12	Strategies for reducing basis set superposition error (BSSE) in O/Au and O/Ni. <i>Journal of Physics and Chemistry of Solids</i> , 2015, 86, 19-26.	4.0	12
13	Bond length effects during the dissociation of O ₂ on Ni(111). <i>Applied Surface Science</i> , 2015, 346, 329-334.	6.1	8
14	Identification of the c(10 $\sqrt{6}$)-CN/Cu(001) surface structure. <i>Applied Surface Science</i> , 2014, 321, 358-363.	6.1	5
15	The magnetic properties of Ce/Pd surface alloys investigated using DFT. <i>Chemical Physics Letters</i> , 2014, 605-606, 5-9.	2.6	5
16	Elucidation of the indirect H δ -H interaction in (2 $\sqrt{3}$ -1)-H/Pd(311) and on Pd(111). <i>Chemical Physics Letters</i> , 2014, 592, 14-17.	2.6	0
17	Band structure analysis of (1 $\sqrt{2}$)-H/Pd(110)-pr. <i>Surface Science</i> , 2013, 615, 119-124.	1.9	3
18	Investigation of the H δ -Cu and Cu δ -Cu bonds in hydrogenated Cu. <i>Journal of Physics and Chemistry of Solids</i> , 2013, 74, 128-134.	4.0	11

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19	Investigation of the (1 $\bar{1}$ –2)-H/Pd(110)-pr system using DFT. Chemical Physics Letters, 2013, 568-569, 117-120.	2.6	3
20	THE DIRECT INVERSION OF HELIUM ATOM SCATTERING (HAS) DIFFRACTION SPECTRA. Surface Review and Letters, 2012, 19, 1250008.	1.1	1
21	Comparative investigation of the c(2 $\bar{1}$ –2)-Si/Cu(011) and ($\bar{1}$ $\bar{1}$ – $\bar{1}$)R30 $\bar{1}$ -Cu ₂ Si/Cu(111) surface alloys using DFT. Applied Surface Science, 2012, 258, 3475-3484.	6.1	4
22	Investigation of the bonding of SiH _n and CH _n (n=1,2,3) on Cu(111) using DFT. Applied Surface Science, 2012, 258, 7546-7551.	6.1	6
23	The catalytic properties of sub-surface H layers on Cu(111). Chemical Physics Letters, 2011, 514, 119-123.	2.6	4
24	Investigation of the ($\bar{1}$ $\bar{1}$ – $\bar{1}$)R30 $\bar{1}$ -Cu ₂ Si/Cu(1 1 1) surface alloy using DFT. Applied Surface Science, 2011, 257, 6792-6798.	6.1	7
25	A surface work function measurement technique utilizing constant deflected grazing electron trajectories: Oxygen uptake on Cu(001). Review of Scientific Instruments, 2010, 81, 105109.	1.3	4
26	Deduction of a three-phase model for the ($\bar{1}$ $\bar{1}$ – $\bar{1}$)R30 $\bar{1}$ -Cu ₂ Si/Cu(111) surface alloy. Applied Surface Science, 2009, 256, 636-639.	6.1	7
27	Investigations of the CN/Cu(111) system using density functional theory. Surface Science, 2008, 602, 3308-3315.	1.9	3
28	DEVELOPMENT OF A NOVEL DUAL TIME-OF-FLIGHT IMAGING MASS SPECTROMETER: PRINCIPAL, REALIZATION, AND OPTIMAL PERFORMANCE. Surface Review and Letters, 2008, 15, 369-389.	1.1	2
29	IMPROVEMENTS TO THE RADIUS OF CONVERGENCE OF DIRECT INVERSION TECHNIQUES IN HELIUM ATOM SCATTERING. Surface Review and Letters, 2008, 15, 519-523.	1.1	2
30	BENCHMARKING PATTERSON ANALYSIS IN HELIUM ATOM SCATTERING. Surface Review and Letters, 2007, 14, 1-4.	1.1	12
31	STUDIES OF THE ADSORPTION OF CYANOGEN (C ₂ N ₂) ON Cu(001) USING HELIUM ATOM SCATTERING. Surface Review and Letters, 2007, 14, 863-872.	1.1	3
32	STUDIES OF THE ADSORPTION OF ACETONITRILE (CH ₃ CN) ON Cu(001) USING HELIUM ATOM SCATTERING. Surface Review and Letters, 2007, 14, 387-394.	1.1	6
33	ANALYSIS OF THE (3 $\bar{1}$ –3)-H/Cu(111) SYSTEM USING EIKONAL-LEVEL HELIUM ATOM SCATTERING SIMULATIONS. Surface Review and Letters, 2007, 14, 1089-1093.	1.1	4
34	DEVELOPMENT OF DIRECT METHODS OF DATA INVERSION IN HELIUM ATOM SCATTERING. Surface Review and Letters, 2007, 14, 321-327.	1.1	5
35	THE SATURATED (3 $\bar{1}$ –3)-H/Cu(111) SYSTEM: A STRUCTURAL STUDY USING MEDIUM-ENERGY ION SCATTERING AND HELIUM ATOM SCATTERING. Surface Review and Letters, 2007, 14, 1191-1198.	1.1	3
36	Preferential sub-surface occupation of atomic hydrogen on Cu(111). Chemical Physics Letters, 2003, 381, 654-659.	2.6	22

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37	X-ray standing waves at surfaces. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 4059-4074.	1.8	15
38	A NIXSW structural investigation of the low temperature silyl phase formed by SiH ₄ reaction with Cu(111). <i>Chemical Physics Letters</i> , 2002, 351, 208-212.	2.6	11
39	THE ADSORPTION AND DESORPTION PROCESSES ACCOMPANYING THE CHEMICAL VAPOUR DEPOSITION OF SILANE ON Cu(111) AND Ni(111). <i>Surface Review and Letters</i> , 2001, 08, 613-620.	1.1	6