Ian G Shuttleworth

List of Publications by Year
in descending order

39	262	933447	1058476
papers	citations	10 h-index	14 g-index

39	39	39	188
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Preferential sub-surface occupation of atomic hydrogen on Cu(111). Chemical Physics Letters, 2003, 381, 654-659.	2.6	22
2	Strain engineering of H/transition metal systems. Surface Science, 2017, 661, 49-59.	1.9	20
3	X-ray standing waves at surfaces. Journal of Physics Condensed Matter, 2002, 14, 4059-4074.	1.8	15
4	Controlled FCC/on-top binding of H/Pt(111) using surface stress. Applied Surface Science, 2016, 378, 286-292.	6.1	15
5	BENCHMARKING PATTERSON ANALYSIS IN HELIUM ATOM SCATTERING. Surface Review and Letters, 2007, 14, 1-4.	1.1	12
6	Strategies for reducing basis set superposition error (BSSE) in O/AU and O/Ni. Journal of Physics and Chemistry of Solids, 2015, 86, 19-26.	4.0	12
7	A NIXSW structural investigation of the low temperature silyl phase formed by SiH4 reaction with Cu(111). Chemical Physics Letters, 2002, 351, 208-212.	2.6	11
8	Investigation of the Hâ€“Cu and Cuâ€“Cu bonds in hydrogenated Cu. Journal of Physics and Chemistry of Solids, 2013, 74, 128-134.	4.0	11
9	Magnetism in the strained ordered phases of Pt x Fe 1-x and Pt x Co 1-x (x =0.25,Â0.5, and 0.75). Journal of Physics and Chemistry of Solids, 2018, 114, 153-162.	4.0	11
10	The Magnetic Band-Structures of Ordered PtxFe1â^'x, PtxCo1â^'x, and PtxNi1â^'x (x = 0.25, 0.50, and 0.75). Magnetochemistry, 2020, 6, 61.	2.4	11
11	Non-linear modelling of the effects of strain on transition metal surfaces. Chemical Physics Letters, 2016, 666, 51-57.	2.6	9
12	Bond length effects during the dissociation of O2 on Ni(1 1 1). Applied Surface Science, 2015, 346, 329-334.	6.1	8
13	Deduction of a three-phase model for the (â^š3Ã—â^š3)R30Â°-Cu2Si/Cu(111) surface alloy. Applied Surface Science, 2009, 256, 636-639.	6.1	7
14	Investigation of the (â^š3 Ã— â^š3)R30Â°-Cu2Si/Cu(1 1 1) surface alloy using DFT. Applied Surface Science, 2011, 257, 6792-6798.	6.1	7
15	THE ADSORPTION AND DESORPTION PROCESSES ACCOMPANYING THE CHEMICAL VAPOUR DEPOSITION OF SILANE ON Cu(111) AND Ni(111). Surface Review and Letters, 2001, 08, 613-620.	1.1	6
16	STUDIES OF THE ADSORPTION OF ACETONITRILE (CH3CN) ON Cu(001) USING HELIUM ATOM SCATTERING. Surface Review and Letters, 2007, 14, 387-394.	1.1	6
17	Investigation of the bonding of SiHn and CHn (n=1,â€¦,3) on Cu(111) using DFT. Applied Surface Science, 2012, 258, 7546-7551.	6.1	6
18	Binding Site Transitions Across Strained Oxygenated and Hydroxylated Pt(111). ChemistryOpen, 2018, 7, 356-369.	1.9	6

#	Article	IF	Citations
19	DEVELOPMENT OF DIRECT METHODS OF DATA INVERSION IN HELIUM ATOM SCATTERING. Surface Review and Letters, 2007, 14, 321-327.	1.1	5
20	Identification of the c(10Ã—6)-CN/Cu(001) surface structure. Applied Surface Science, 2014, 321, 358-363.	6.1	5
21	The magnetic properties of Ce/Pd surface alloys investigated using DFT. Chemical Physics Letters, 2014, 605-606, 5-9.	2.6	5
22	The effects of strain on the ordered phases of NixPt1-x (x = 0.25, 0.5, and 0.75). Chemical Physics Letters, 2017, 689, 41-47.	2.6	5
23	ANALYSIS OF THE (3 Ã— 3)-H/Cu(111) SYSTEM USING EIKONAL-LEVEL HELIUM ATOM SCATTERING SIMULATIONS. Surface Review and Letters, 2007, 14, 1089-1093.	1.1	4
24	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
25	The catalytic properties of sub-surface H layers on Cu(111). Chemical Physics Letters, 2011, 514, 119-123.	2.6	4
26	Comparative investigation of the c(2Ã—2)-Si/Cu(011) and (âˆš3Ã—âˆš3)R30Â°-Cu2Si/Cu(111) surface alloys using DFT. Applied Surface Science, 2012, 258, 3475-3484.	6.1	4
27	Strain Engineering of the CeNi5 System. Magnetochemistry, 2016, 2, 39.	2.4	4
28	A Comparative Study of Oxygen and Hydrogen Adsorption on Strained and Alloy-Supported Pt(111) Monolayers. Magnetochemistry, 2021, 7, 101.	2.4	4
29	STUDIES OF THE ADSORPTION OF CYANOGEN (C₂N₂) ON Cu(001) USING HELIUM ATOM SCATTERING. Surface Review and Letters, 2007, 14, 863-872.	1.1	3
30	THE SATURATED (3 Ã— 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
31	Investigations of the CN/Cu(111) system using density functional theory. Surface Science, 2008, 602, 3308-3315.	1.9	3
32	Band structure analysis of (1Ã—2)-H/Pd(110)-pr. Surface Science, 2013, 615, 119-124.	1.9	3
33	Investigation of the (1Ã—2)-H/Pd(110)-pr system using DFT. Chemical Physics Letters, 2013, 568-569, 117-120.	2.6	3
34	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
35	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
36	Development of the ReaxFF Reactive Force-Field Description of Gold Oxides. Journal of Physical Chemistry C, 2017, 121, 25255-25270.	3.1	2

#	Article	IF	Citations
37	THE DIRECT INVERSION OF HELIUM ATOM SCATTERING (HAS) DIFFRACTION SPECTRA. Surface Review and Letters, 2012, 19, 1250008.	1.1	1
38	The quasiparticle band structures of ordered NixPt1-x. Heliyon, 2018, 4, e01000.	3.2	1
39	Elucidation of the indirect Hâ€“H interaction in (2 Ã— 1)-H/Pd(3 1 1) and on Pd(1 1 1). Chemical Physics Letters, 2014, 592, 14-17.	2.6	0