

Stephen A Joyce

List of Publications by Year in descending order

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39
papers

1,894
citations

257450

24
h-index

315739

38
g-index

39
all docs

39
docs citations

39
times ranked

1444
citing authors

#	ARTICLE	IF	CITATIONS
1	A new force sensor incorporating force feedback control for interfacial force microscopy. Review of Scientific Instruments, 1991, 62, 710-715.	1.3	213
2	The adsorption and desorption of water on single crystal MgO(100): The role of surface defects. Journal of Chemical Physics, 1996, 105, 1295-1298.	3.0	151
3	The chemisorption of chlorosilanes and chlorine on Si(111)7 \times 7. Surface Science, 1990, 232, 297-306.	1.9	142
4	Mechanical relaxation of organic monolayer films measured by force microscopy. Physical Review Letters, 1992, 68, 2790-2793.	7.8	137
5	Interaction of water with the (1 $\bar{1}$ -1) and (2 $\bar{1}$ -1) surfaces of $\hat{\Gamma}$ -Fe ₂ O ₃ (012). Surface Science, 1998, 417, 66-81.	1.9	126
6	Surface termination, composition and reconstruction of Fe ₃ O ₄ (001) and $\hat{\Gamma}$ -Fe ₂ O ₃ (001). Surface Science, 1999, 420, 111-122.	1.9	118
7	Physisorption of CO on the MgO(100) Surface. Journal of Physical Chemistry B, 2001, 105, 3747-3751.	2.6	118
8	Surface structure of MBE-grown Fe ₃ O ₄ (001) by X-ray photoelectron diffraction and scanning tunneling microscopy. Surface Science, 2000, 450, L273-L279.	1.9	93
9	Imaging insulating oxides: scanning tunneling microscopy of ultrathin MgO films on Mo(001). Surface Science, 1995, 339, L909-L913.	1.9	70
10	Ionic Liquid Pretreatment of Poplar Wood at Room Temperature: Swelling and Incorporation of Nanoparticles. ACS Applied Materials & Interfaces, 2010, 2, 2198-2205.	8.0	49
11	A critical examination of the thermodynamics of water adsorption on actinide oxide surfaces. Journal of Nuclear Materials, 2003, 322, 45-56.	2.7	44
12	Electron-Stimulated-Desorption Ion Angular Distributions of Negative Ions. Physical Review Letters, 1988, 61, 2578-2581.	7.8	42
13	Near-field fluorescent imaging of single proteins. Ultramicroscopy, 1995, 57, 113-117.	1.9	40
14	Photon-stimulated desorption of fluorine from silicon via substrate core excitations. Physical Review B, 1989, 40, 3143-3150.	3.2	37
15	Infrared photochemistry of alkyl- and arylsilanes. The Journal of Physical Chemistry, 1984, 88, 3098-3103.	2.9	35
16	Structure of ultrathin MgO films on Mo(001). Thin Solid Films, 2003, 445, 90-95.	1.8	33
17	Thermal Evolution of Hydrogen Following Water Adsorption on Defective UO ₂ (100). Journal of Physical Chemistry B, 2004, 108, 2362-2364.	2.6	33
18	Reactions of XeF ₂ chemisorbed on Si(111) 7 \times 7. Applied Physics Letters, 1985, 46, 1187-1189.	3.3	32

#	ARTICLE	IF	CITATIONS
19	Methodology for electron stimulated desorption ion angular distributions of negative ions. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1989, 7, 2221-2226.	2.1	31
20	CCl ₄ chemistry on the magnetite selvage of single-crystal hematite: competitive surface reactions. Surface Science, 2002, 497, 127-138.	1.9	30
21	Surface termination dependence of the reactivity of single crystal hematite with CCl ₄ . Surface Science, 2002, 511, 267-282.	1.9	30
22	Low-energy-electron escape lengths in SiO ₂ . Physical Review B, 1990, 42, 5191-5200.	3.2	29
23	Comparison of Si(100) and Si(111) surfaces after moderate to high exposures of XeF ₂ . Surface Science, 1986, 173, 455-464.	1.9	26
24	CCl ₄ chemistry on the reduced selvage of a $\hat{1}\pm$ -Fe ₂ O ₃ (0001) surface: a scanning tunneling microscopy study. Surface Science, 2003, 541, 59-75.	1.9	26
25	Reactions of laser-generated CF ₂ on silicon and silicon oxide surfaces. Surface Science, 1989, 207, 344-353.	1.9	24
26	Interaction of D ₂ O with the Fe ₃ O ₄ (111) and the biphasic ordered structures on $\hat{1}\pm$ -Fe ₂ O ₃ (0001). Journal of Electron Spectroscopy and Related Phenomena, 1999, 101-103, 433-438.	1.7	24
27	Scanning Tunneling Microscopy and Theoretical Study of Competitive Reactions in the Dissociative Chemisorption of CCl ₄ on Iron Oxide Surfaces. Journal of Physical Chemistry B, 2004, 108, 16753-16760.	2.6	21
28	Radiation damage in an adsorbed monolayer: PF ₃ on Ru(0001). Surface Science, 1991, 254, 144-152.	1.9	19
29	Influence of coadsorbed potassium on the electron-stimulated desorption of F ⁺ , F ⁺ , and F [*] from PF ₃ on Ru(0001). Physical Review B, 1992, 45, 14264-14272.	3.2	19
30	Differentiation of topographical and chemical structures using an interfacial force microscope. Applied Physics Letters, 1992, 60, 1175-1177.	3.3	19
31	Structure of epitaxial thin TiO _x films on W(110) as studied by low energy electron diffraction and scanning tunneling microscopy. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1996, 14, 1126.	1.6	18
32	Chemistry of CCl ₄ on Fe ₃ O ₄ (111)-(2 \times 2) surfaces in the presence of adsorbed D ₂ O studied by temperature programmed desorption. Surface Science, 2003, 537, 191-204.	1.9	18
33	Chemisorption of laser-generated fluorocarbon free radicals on single crystal silicon. Journal of Chemical Physics, 1985, 83, 6012-6016.	3.0	15
34	Photon-stimulated desorption as a measure of surface electronic structure. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1989, 7, 2445-2448.	2.1	12
35	Structural transformations in the Stranski-Krastanov growth of Mg on Mo(001). Physical Review B, 1999, 59, 2346-2351.	3.2	9
36	British vacuum council annual address 1988. Vacuum, 1988, 38, 579-583.	3.5	7

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37	Reactions of Fluorine-Containing Compounds on Thermal SiO ₂ . Materials Research Society Symposia Proceedings, 1986, 75, 477.	0.1	2
38	Electron attenuation lengths at SiO ₂ /Si interfaces. Journal of Electron Spectroscopy and Related Phenomena, 1990, 52, 221-227.	1.7	2
39	Summary Abstract: Chemisorption of fluorocarbon free radicals on Si(111). Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1986, 4, 1476-1477.	2.1	0