

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 | 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 |
| 2 | Thermal Evolution of Hydrogen Following Water Adsorption on Defective UO ₂ (100). Journal of Physical Chemistry B, 2004, 108, 2362-2364. | 2.6 | 33 |
| 3 | 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 |
| 4 | Structure of ultrathin MgO films on Mo(001). Thin Solid Films, 2003, 445, 90-95. | 1.8 | 33 |
| 5 | A critical examination of the thermodynamics of water adsorption on actinide oxide surfaces. Journal of Nuclear Materials, 2003, 322, 45-56. | 2.7 | 44 |
| 6 | 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 |
| 7 | CCl ₄ chemistry on the reduced seldedge 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 |
| 8 | CCl ₄ chemistry on the magnetite seldedge of single-crystal hematite: competitive surface reactions. Surface Science, 2002, 497, 127-138. | 1.9 | 30 |
| 9 | Surface termination dependence of the reactivity of single crystal hematite with CCl ₄ . Surface Science, 2002, 511, 267-282. | 1.9 | 30 |
| 10 | Physisorption of CO on the MgO(100) Surface. Journal of Physical Chemistry B, 2001, 105, 3747-3751. | 2.6 | 118 |
| 11 | 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 |
| 12 | Structural transformations in the Stranski-Krastanov growth of Mg on Mo(001). Physical Review B, 1999, 59, 2346-2351. | 3.2 | 9 |
| 13 | 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 |
| 14 | Surface termination, composition and reconstruction of Fe ₃ O ₄ (001) and $\hat{1}^3$ -Fe ₂ O ₃ (001). Surface Science, 1999, 420, 111-122. | 1.9 | 118 |
| 15 | Interaction of water with the (1 $\bar{1}$ -1) and (2 $\bar{1}$ -1) surfaces of $\hat{1}\pm$ -Fe ₂ O ₃ (012). Surface Science, 1998, 417, 66-81. | 1.9 | 126 |
| 16 | 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 |
| 17 | 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 |
| 18 | Near-field fluorescent imaging of single proteins. Ultramicroscopy, 1995, 57, 113-117. | 1.9 | 40 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Imaging insulating oxides: scanning tunneling microscopy of ultrathin MgO films on Mo(001). Surface Science, 1995, 339, L909-L913. | 1.9 | 70 |
| 20 | 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 |
| 21 | Differentiation of topographical and chemical structures using an interfacial force microscope. Applied Physics Letters, 1992, 60, 1175-1177. | 3.3 | 19 |
| 22 | Mechanical relaxation of organic monolayer films measured by force microscopy. Physical Review Letters, 1992, 68, 2790-2793. | 7.8 | 137 |
| 23 | Radiation damage in an adsorbed monolayer: PF ₃ on Ru(0001). Surface Science, 1991, 254, 144-152. | 1.9 | 19 |
| 24 | A new force sensor incorporating force feedback control for interfacial force microscopy. Review of Scientific Instruments, 1991, 62, 710-715. | 1.3 | 213 |
| 25 | Electron attenuation lengths at SiO ₂ /Si interfaces. Journal of Electron Spectroscopy and Related Phenomena, 1990, 52, 221-227. | 1.7 | 2 |
| 26 | Low-energy-electron escape lengths in SiO ₂ . Physical Review B, 1990, 42, 5191-5200. | 3.2 | 29 |
| 27 | The chemisorption of chlorosilanes and chlorine on Si(111) 7 Å ⁻¹ . Surface Science, 1990, 232, 297-306. | 1.9 | 142 |
| 28 | Photon-stimulated desorption of fluorine from silicon via substrate core excitations. Physical Review B, 1989, 40, 3143-3150. | 3.2 | 37 |
| 29 | 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 |
| 30 | 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 |
| 31 | Reactions of laser-generated CF ₂ on silicon and silicon oxide surfaces. Surface Science, 1989, 207, 344-353. | 1.9 | 24 |
| 32 | British vacuum council annual address 1988. Vacuum, 1988, 38, 579-583. | 3.5 | 7 |
| 33 | Electron-Stimulated-Desorption Ion Angular Distributions of Negative Ions. Physical Review Letters, 1988, 61, 2578-2581. | 7.8 | 42 |
| 34 | 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 |
| 35 | Reactions of Fluorine-Containing Compounds on Thermal SiO ₂ . Materials Research Society Symposia Proceedings, 1986, 75, 477. | 0.1 | 2 |
| 36 | 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 |

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|----|------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Reactions of XeF ₂ chemisorbed on Si(111) 7Å—7. Applied Physics Letters, 1985, 46, 1187-1189. | 3.3 | 32 |
| 38 | Chemisorption of laser-generated fluorocarbon free radicals on single crystal silicon. Journal of Chemical Physics, 1985, 83, 6012-6016. | 3.0 | 15 |
| 39 | Infrared photochemistry of alkyl- and arylsilanes. The Journal of Physical Chemistry, 1984, 88, 3098-3103. | 2.9 | 35 |