

# Shane Murphy

## List of Publications by Year in descending order

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60  
papers

1,290  
citations

394421

19  
h-index

377865

34  
g-index

60  
all docs

60  
docs citations

60  
times ranked

1703  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen adsorption on palladium and palladium hydride at 1 bar. <i>Surface Science</i> , 2010, 604, 718-729.	1.9	158
2	Charge ordering on the surface of Fe <sub>3</sub> O <sub>4</sub> (001). <i>Physical Review B</i> , 2002, 66, .	3.2	82
3	Scanning tunneling spectroscopy study of the electronic structure of Fe <sub>3</sub> O <sub>4</sub> surfaces. <i>Physical Review B</i> , 2006, 74, .	3.2	68
4	Surface morphology of c-plane sapphire (α-Al <sub>2</sub> O <sub>3</sub> ) produced by high temperature anneal. <i>Surface Science</i> , 2010, 604, 1294-1299.	1.9	61
5	The morphology of mass selected ruthenium nanoparticles from a magnetron-sputter gas-aggregation source. <i>Journal of Nanoparticle Research</i> , 2010, 12, 1249-1262.	1.9	53
6	Long-range charge order on the Fe <sub>3</sub> O <sub>4</sub> (001) surface. <i>Physical Review B</i> , 2004, 70, .	3.2	52
7	Atomically Resolved Spin-Dependent Tunneling on the Oxygen-Terminated Fe <sub>3</sub> O <sub>4</sub> (111). <i>Physical Review Letters</i> , 2004, 93, 057201.	7.8	50
8	Oxide templates for self-assembling arrays of metal nanoclusters. <i>Surface Science</i> , 2006, 600, L287-L290.	1.9	43
9	Fabrication of magnetic STM probes and their application to studies of the Fe <sub>3</sub> O <sub>4</sub> (001) surface. <i>Surface Science</i> , 2003, 523, 131-140.	1.9	38
10	Room temperature study of a strain-induced electronic superstructure on a magnetite (111) surface. <i>Physical Review B</i> , 2004, 70, .	3.2	38
11	An atomic scale STM study of the Fe <sub>3</sub> O <sub>4</sub> (001) surface. <i>Surface Science</i> , 2004, 548, 106-116.	1.9	36
12	Self-limited growth of triangular PtO <sub>2</sub> nanoclusters on the Pt(111) surface. <i>Nanotechnology</i> , 2010, 21, 335301.	2.6	34
13	Morphology and strain-induced defect structure of ultrathin epitaxial Fe films on Mo(110). <i>Physical Review B</i> , 2002, 66, .	3.2	33
14	Cluster Beam Deposition of Ultrafine Cobalt and Ruthenium Clusters for Efficient and Stable Oxygen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2018, 1, 3013-3018.	5.1	29
15	Plasmon Resonance in Silver Nanoparticles Arrays Grown by Atomic Terrace Low-Angle Shadowing. <i>Nano Letters</i> , 2008, 8, 3248-3256.	9.1	26
16	A comparative STM study of Ru nanoparticles deposited on HOPG by mass-selected gas aggregation versus thermal evaporation. <i>Surface Science</i> , 2009, 603, 3420-3430.	1.9	25
17	Probing the active sites for CO dissociation on ruthenium nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 8005.	2.8	25
18	Fabrication of submicron-scale manganese-nickel tips for spin-polarized STM studies. <i>Applied Surface Science</i> , 1999, 144-145, 497-500.	6.1	24

#	ARTICLE	IF	CITATIONS
19	Influence of the antiphase domain distribution on the magnetic structure of magnetite thin films. Applied Physics Letters, 2006, 89, 122517.	3.3	23
20	Planar nanowire arrays formed by atomic-terrace low-angle shadowing. Review of Scientific Instruments, 2008, 79, 053907.	1.3	19
21	Formation of the strain-induced electronic superstructure on the magnetite (111) surface. Europhysics Letters, 2003, 63, 867-873.	2.0	18
22	Concept of a nanowire array magnetoresistance device. Applied Physics Letters, 2008, 92, 023107.	3.3	18
23	Initial nucleation of Au on the R45Å° reconstructed Fe <sub>3</sub> O <sub>4</sub> (001) surface. Surface Science, 2006, 600, 5150-5157.	1.9	17
24	Atomic Row Doubling in the STM Images of Cu(014)-O Obtained with MnNi Tips. Physical Review Letters, 2007, 98, 206101.	7.8	16
25	Layer-dependent reactivity in the Fe/Mo(110) epitaxial ultrathin film system. Physical Review B, 2003, 68, .	3.2	15
26	H <sub>2</sub> splitting on Pt, Ru and Rh nanoparticles supported on sputtered HOPG. Surface Science, 2012, 606, 263-272.	1.9	15
27	Catalytic oxidation of graphite by mass-selected ruthenium nanoparticles. Carbon, 2011, 49, 376-385.	10.3	14
28	Spin polarized STM imaging of the (001) surface using antiferromagnetic tips. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 1029-1032.	2.3	13
29	Influence of Ca and K on the reconstruction of the Fe <sub>3</sub> O <sub>4</sub> (001) surface. Surface Science, 2004, 564, 79-86.	1.9	12
30	Spin-polarized tunneling effects observed on the oxygen-terminated Fe <sub>3</sub> O <sub>4</sub> (111) surface. Journal of Applied Physics, 2004, 95, 6891-6893.	2.5	12
31	Study of in-plane magnetic anisotropy of ultrathin epitaxial Fe films grown on vicinal Mo(110) surface. Journal of Applied Physics, 2004, 95, 7312-7314.	2.5	12
32	Crystallographic Orientation Analyses of Magnetite Thin Films Using Electron Backscatter Diffraction (EBSD). IEEE Transactions on Magnetics, 2006, 42, 2873-2875.	2.1	12
33	A new method to prepare colloids of size-controlled clusters from a matrix assembly cluster source. APL Materials, 2017, 5, 053405.	5.1	12
34	Oxygen-induced p(3Å-1) reconstruction of the W(100) surface. Surface Science, 2005, 579, 65-72.	1.9	11
35	Asymmetry effects in atomically resolved STM images of Cu(014)-O and W(100)-O surfaces measured with MnNi tips. Physical Review B, 2007, 76, .	3.2	11
36	Probing the crossover in CO desorption from single crystal to nanoparticulate Ru model catalysts. Physical Chemistry Chemical Physics, 2011, 13, 10333.	2.8	11

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37	Atomically resolved $p(3\sqrt{3}\times 1)$ reconstruction on the W(100) surface imaged with magnetic tips. Journal of Magnetism and Magnetic Materials, 1999, 198-199, 686-688.	2.3	10
38	Epitaxial growth of ultrathin Cr films on Mo(110) at elevated temperature. Physical Review B, 2006, 73, .	3.2	10
39	Nanowedge island formation on Mo(110). Surface Science, 2007, 601, 3169-3178.	1.9	10
40	Morphology of Ni ultrathin films on Mo(110) and W(100) studied by LEED and STM. Surface Science, 2007, 601, 5576-5584.	1.9	10
41	Irreversible nanoscale morphology transformation of an Fe film on Mo(110) induced by a magnetic STM tip. Surface Science, 2003, 547, 139-148.	1.9	9
42	Towards Spin-Polarized Scanning Tunneling Microscopy on Magnetite (110). Japanese Journal of Applied Physics, 2006, 45, 2225-2229.	1.5	9
43	In situ study of in-plane magnetic anisotropy of ultrathin Fe films on Mo(110). Journal of Magnetism and Magnetic Materials, 2004, 283, 357-363.	2.3	8
44	Developments in surface magneto-optical Kerr effect setup for ultrahigh vacuum analysis of magnetic ultrathin films. Review of Scientific Instruments, 2005, 76, 046102.	1.3	8
45	Self-assembly of iron nanoclusters on the Fe <sub>3</sub> O <sub>4</sub> (111) superstructured surface. Physical Review B, 2005, 71, .	3.2	8
46	Misorientations in [001] magnetite thin films studied by electron backscatter diffraction and magnetic force microscopy. Journal of Applied Physics, 2007, 101, 09M507.	2.5	8
47	Mapping the plasmon response of Ag nanoislands on graphite at 100 nm resolution with scanning probe energy loss spectroscopy. Applied Physics Express, 2015, 8, 126601.	2.4	8
48	Enhanced gas-particle adsorption on strained pseudomorphic Fe films on Mo(110). Surface Science, 2000, 454-456, 280-283.	1.9	7
49	Scanning tunneling microscopy studies of the Fe <sub>3</sub> O <sub>4</sub> (001) surface using antiferromagnetic probes. Journal of Applied Physics, 2003, 93, 7142-7144.	2.5	7
50	Nanoscale pattern formation on the $\sqrt{3}\times\sqrt{3}$ surface of Fe <sub>3</sub> O <sub>4</sub> (001) studied by scanning tunneling microscopy. Journal of Applied Physics, 2003, 93, 7142-7144.	2.3	6
51	Nano-Magnetic Probing on Magnetite. IEEE Transactions on Magnetics, 2006, 42, 2927-2929.	2.1	6
52	Electron backscatter diffraction analysis applied to [001] magnetite thin films grown on MgO substrates. Journal of Magnetism and Magnetic Materials, 2007, 316, e663-e665.	2.3	5
53	A proximal retarding field analyzer for scanning probe energy loss spectroscopy. Nanotechnology, 2017, 28, 105711.	2.6	5
54	Self-assembled alkali and alkaline earth metal nanopatterns on Fe <sub>3</sub> O <sub>4</sub> (001). Physical Review B, 2004, 70, .	3.2	4

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55	Atomic scale spin-dependent STM on magnetite using antiferromagnetic STM tips. <i>Microscopy Research and Technique</i> , 2005, 66, 85-92.	2.2	4
56	Microtexture of magnetite thin films of (001) and (111) orientations on MgO substrates studied by electron-backscatter diffraction. <i>Journal of Applied Physics</i> , 2008, 103, 07E505.	2.5	4
57	Epitaxial growth and magnetic properties of Fe nanowedge islands on Mo(110). <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 286, 18-22.	2.3	3
58	Study of ferromagneticâ€“paramagnetic phase transition in two-dimensional Fe/Mo(110) epitaxial films. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 290-291, 764-767.	2.3	3
59	EBSA analysis of the growth of (001) magnetite thin films on MgO substrates. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2007, 144, 64-68.	3.5	2
60	Epitaxial Growth of Cr Ultrathin Films on Vicinal and Low Index Mo(110) Surfaces. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 2212-2214.	1.5	0