

# 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	Cluster Beam Deposition of Ultrafine Cobalt and Ruthenium Clusters for Efficient and Stable Oxygen Evolution Reaction. ACS Applied Energy Materials, 2018, 1, 3013-3018.	5.1	29
2	A proximal retarding field analyzer for scanning probe energy loss spectroscopy. Nanotechnology, 2017, 28, 105711.	2.6	5
3	A new method to prepare colloids of size-controlled clusters from a matrix assembly cluster source. APL Materials, 2017, 5, 053405.	5.1	12
4	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
5	Probing the active sites for CO dissociation on ruthenium nanoparticles. Physical Chemistry Chemical Physics, 2012, 14, 8005.	2.8	25
6	H <sub>2</sub> splitting on Pt, Ru and Rh nanoparticles supported on sputtered HOPG. Surface Science, 2012, 606, 263-272.	1.9	15
7	Probing the crossover in CO desorption from single crystal to nanoparticulate Ru model catalysts. Physical Chemistry Chemical Physics, 2011, 13, 10333.	2.8	11
8	Catalytic oxidation of graphite by mass-selected ruthenium nanoparticles. Carbon, 2011, 49, 376-385.	10.3	14
9	The morphology of mass selected ruthenium nanoparticles from a magnetron-sputter gas-aggregation source. Journal of Nanoparticle Research, 2010, 12, 1249-1262.	1.9	53
10	Hydrogen adsorption on palladium and palladium hydride at 1 bar. Surface Science, 2010, 604, 718-729.	1.9	158
11	Surface morphology of c-plane sapphire ( $\gamma$ -alumina) produced by high temperature anneal. Surface Science, 2010, 604, 1294-1299.	1.9	61
12	Self-limited growth of triangular PtO <sub>2</sub> nanoclusters on the Pt(111) surface. Nanotechnology, 2010, 21, 335301.	2.6	34
13	A comparative STM study of Ru nanoparticles deposited on HOPG by mass-selected gas aggregation versus thermal evaporation. Surface Science, 2009, 603, 3420-3430.	1.9	25
14	Plasmon Resonance in Silver Nanoparticles Arrays Grown by Atomic Terrace Low-Angle Shadowing. Nano Letters, 2008, 8, 3248-3256.	9.1	26
15	Concept of a nanowire array magnetoresistance device. Applied Physics Letters, 2008, 92, 023107.	3.3	18
16	Planar nanowire arrays formed by atomic-terrace low-angle shadowing. Review of Scientific Instruments, 2008, 79, 053907.	1.3	19
17	Microtexture of magnetite thin films of (001) and (111) orientations on MgO substrates studied by electron-backscatter diffraction. Journal of Applied Physics, 2008, 103, 07E505.	2.5	4
18	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

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19	Misorientations in [001] magnetite thin films studied by electron backscatter diffraction and magnetic force microscopy. <i>Journal of Applied Physics</i> , 2007, 101, 09M507.	2.5	8
20	Atomic Row Doubling in the STM Images of Cu(014)-O Obtained with MnNi Tips. <i>Physical Review Letters</i> , 2007, 98, 206101.	7.8	16
21	Nanowedge island formation on Mo(110). <i>Surface Science</i> , 2007, 601, 3169-3178.	1.9	10
22	Morphology of Ni ultrathin films on Mo(110) and W(100) studied by LEED and STM. <i>Surface Science</i> , 2007, 601, 5576-5584.	1.9	10
23	EBSD 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
24	Electron backscatter diffraction analysis applied to [001] magnetite thin films grown on MgO substrates. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 316, e663-e665.	2.3	5
25	Epitaxial growth of ultrathin Cr films on Mo(110) at elevated temperature. <i>Physical Review B</i> , 2006, 73, .	3.2	10
26	Influence of the antiphase domain distribution on the magnetic structure of magnetite thin films. <i>Applied Physics Letters</i> , 2006, 89, 122517.	3.3	23
27	Oxide templates for self-assembling arrays of metal nanoclusters. <i>Surface Science</i> , 2006, 600, L287-L290.	1.9	43
28	Initial nucleation of Au on the R45Å° reconstructed Fe <sub>3</sub> O <sub>4</sub> (001) surface. <i>Surface Science</i> , 2006, 600, 5150-5157.	1.9	17
29	Nano-Magnetic Probing on Magnetite. <i>IEEE Transactions on Magnetics</i> , 2006, 42, 2927-2929.	2.1	6
30	Crystallographic Orientation Analyses of Magnetite Thin Films Using Electron Backscatter Diffraction (EBSD). <i>IEEE Transactions on Magnetics</i> , 2006, 42, 2873-2875.	2.1	12
31	Towards Spin-Polarized Scanning Tunneling Microscopy on Magnetite (110). <i>Japanese Journal of Applied Physics</i> , 2006, 45, 2225-2229.	1.5	9
32	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
33	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
34	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
35	Nanowedge island formation on the $\sqrt{3}\times\sqrt{3}$ surface of Fe <sub>3</sub> O <sub>4</sub> . <i>Journal of Applied Physics</i> , 2005, 98, 044301.	2.3	6
36	Study of ferromagnetic to 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

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37	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
38	Oxygen-induced $p(3\sqrt{3}\times 1)$ reconstruction of the W(100) surface. Surface Science, 2005, 579, 65-72.	1.9	11
39	Atomic scale spin-dependent STM on magnetite using antiferromagnetic STM tips. Microscopy Research and Technique, 2005, 66, 85-92.	2.2	4
40	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
41	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
42	Atomically Resolved Spin-Dependent Tunneling on the Oxygen-Terminated Fe <sub>3</sub> O <sub>4</sub> (111). Physical Review Letters, 2004, 93, 057201.	7.8	50
43	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
44	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
45	An atomic scale STM study of the Fe <sub>3</sub> O <sub>4</sub> (001) surface. Surface Science, 2004, 548, 106-116.	1.9	36
46	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
47	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
48	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
49	Long-range charge order on the Fe <sub>3</sub> O <sub>4</sub> (001) surface. Physical Review B, 2004, 70, .	3.2	52
50	Room temperature study of a strain-induced electronic superstructure on a magnetite (111) surface. Physical Review B, 2004, 70, .	3.2	38
51	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
52	Fabrication of magnetic STM probes and their application to studies of the Fe <sub>3</sub> O <sub>4</sub> (001) surface. Surface Science, 2003, 523, 131-140.	1.9	38
53	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
54	Layer-dependent reactivity in the Fe/Mo(110) epitaxial ultrathin film system. Physical Review B, 2003, 68, .	3.2	15

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55	Formation of the strain-induced electronic superstructure on the magnetite (111) surface. Europhysics Letters, 2003, 63, 867-873.	2.0	18
56	Charge ordering on the surface of Fe <sub>3</sub> O <sub>4</sub> (001). Physical Review B, 2002, 66, .	3.2	82
57	Morphology and strain-induced defect structure of ultrathin epitaxial Fe films on Mo(110). Physical Review B, 2002, 66, .	3.2	33
58	Enhanced gas-particle adsorption on strained pseudomorphic Fe films on Mo(110). Surface Science, 2000, 454-456, 280-283.	1.9	7
59	Fabrication of submicron-scale manganese-nickel tips for spin-polarized STM studies. Applied Surface Science, 1999, 144-145, 497-500.	6.1	24
60	Atomically resolved p(3Å <sup>-1</sup> ) reconstruction on the W(100) surface imaged with magnetic tips. Journal of Magnetism and Magnetic Materials, 1999, 198-199, 686-688.	2.3	10