Anthony J Muscat

List of Publications by Year in descending order

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430874 434195 1,002 61 18 31 citations g-index h-index papers 62 62 62 1594 all docs docs citations times ranked citing authors

#	Article	IF	Citations
1	Water-Based Route to Ligand-Selective Synthesis of ZnSe and Cd-Doped ZnSe Quantum Dots with Tunable Ultraviolet A to Blue Photoluminescence. Langmuir, 2009, 25, 434-442.	3.5	119
2	Simple Colloidal Synthesis of Single-Crystal Sbâ^'Seâ^'S Nanotubes with Composition Dependent Band-Gap Energy in the Near-Infrared. Nano Letters, 2009, 9, 2015-2020.	9.1	77
3	Strong blue photoluminescence from single-crystalline bismuth oxychloride nanoplates. Nanotechnology, 2008, 19, 295705.	2.6	75
4	Silylation of porous methylsilsesquioxane films in supercritical carbon dioxide. Microelectronic Engineering, 2004, 76, 52-59.	2.4	50
5	Synthesis of two-dimensional single-crystal berzelianite nanosheets and nanoplates with near-infrared optical absorption. Journal of Materials Chemistry, 2009, 19, 6201.	6.7	46
6	Kinetics and Mechanism for the Reaction of Hexafluoroacetylacetone with CuO in Supercritical Carbon Dioxide. Journal of the American Chemical Society, 2008, 130, 16659-16668.	13.7	43
7	Phase Pure Pyrite FeS ₂ Nanocubes Synthesized Using Oleylamine as Ligand, Solvent, and Reductant. Crystal Growth and Design, 2015, 15, 3565-3572.	3.0	43
8	Synthesis and purple-blue emission of antimony trioxide single-crystalline nanobelts with elliptical cross section. Nano Research, 2009, 2, 151-160.	10.4	42
9	A New Route to Self-Assembled Tin Dioxide Nanospheres: Fabrication and Characterization. Langmuir, 2008, 24, 11089-11095.	3.5	39
10	Nanoporous Silver with Controllable Optical Properties Formed by Chemical Dealloying in Supercritical CO ₂ . Chemistry of Materials, 2009, 21, 3865-3870.	6.7	38
11	Ligand-Controlled Growth of ZnSe Quantum Dots in Water during Ostwald Ripening. Langmuir, 2012, 28, 12931-12940.	3.5	38
12	Removal of Copper from Silicon Surfaces Using Hexafluoroacetylacetone (hfacH) Dissolved in Supercritical Carbon Dioxide. Chemistry of Materials, 2005, 17, 1753-1764.	6.7	32
13	New Method to Single-Crystal Micrometer-Sized Ultra-Thin Silver Nanosheets: Synthesis and Characterization. Journal of Physical Chemistry C, 2009, 113, 867-873.	3.1	29
14	Moisture Absorption and Reaction in BPSG Thin Films. Journal of the Electrochemical Society, 2003, 150, F219.	2.9	28
15	The mechanism of amine formation on Si(100) activated with chlorine atoms. Surface Science, 2006, 600, 3363-3374.	1.9	24
16	The effect of site distribution on desorption kinetics: carbon monoxide from Ni(100). Surface Science, 1994, 301, 83-88.	1.9	22
17	The restoration of porous methylsilsesquioxane (p-MSQ) films using trimethylhalosilanes dissolved in supercritical carbon dioxide. Microelectronic Engineering, 2005, 82, 434-440.	2.4	19
18	Transport of monomer surfactant molecules and hindered diffusion of micelles through porous membranes. Journal of Colloid and Interface Science, 1984, 100, 497-505.	9.4	18

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19	Interdisciplinary Teaching and Learning in a Semiconductor Processing Course*. Journal of Engineering Education, 1998, 87, 413-421.	3.0	18
20	In situ FTIR experimental results in the silylation of low-k films with hexamethyldisilazane dissolved in supercritical carbon dioxide. Journal of Supercritical Fluids, 2014, 90, 134-143.	3.2	18
21	Surface reactions of TiCl4 and Al(CH3)3 on GaAs(100) during the first half-cycle of atomic layer deposition. Surface Science, 2011, 605, 1243-1248.	1.9	17
22	Surface Modification of Porous Silicon-Based Films Using Dichlorosilanes Dissolved in Supercritical Carbon Dioxide. Industrial & Engineering Chemistry Research, 2013, 52, 4762-4771.	3.7	13
23	Self-assembly of alkanethiolates directs sulfur bonding with GaAs(100). Applied Surface Science, 2017, 397, 1-12.	6.1	13
24	Characterization of residues formed by anhydrous hydrogen fluoride etching of doped oxides. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2001, 19, 1854-1861.	2.1	12
25	Native oxide removal from SiGe using mixtures of HF and water delivered by aqueous, gas, and supercritical CO2 processes. Materials Science in Semiconductor Processing, 2005, 8, 231-237.	4.0	12
26	Controlled Oxide Removal and Surface Morphology on InSb(100) Using Gas Phase HF/H ₂ 0. Journal of Physical Chemistry C, 2011, 115, 7440-7449.	3.1	12
27	Detecting and Removing Defects in Organosilane Self-Assembled Monolayers. Langmuir, 2020, 36, 2563-2573.	3 . 5	11
28	Coverage and site distribution effects in the desorption of carbon monoxide from sulfur-covered Ni(100). Surface Science, 1995, 339, 29-40.	1.9	9
29	Kinetic to Transport-Limited Anhydrous HF Etching of Silicon Oxynitride Films in Supercritical CO ₂ . Journal of Physical Chemistry C, 2007, 111, 15251-15257.	3.1	8
30	High-pressure phase equilibria for chlorosilane+carbon dioxide mixtures. Fluid Phase Equilibria, 2008, 270, 121-128.	2.5	8
31	Dealloying Multiphase AgCu Thin Films in Supercritical CO ₂ . Journal of Physical Chemistry C, 2013, 117, 12071-12077.	3.1	8
32	Solvent-Triggered Self-Assembly of CdTe Quantum Dots into Flat Ribbons. Journal of Physical Chemistry C, 2013, 117, 22069-22078.	3.1	7
33	Coating nonfunctionalized silica spheres with a high density of discrete silver nanoparticles. Journal of Nanoparticle Research, 2016, 18, 1.	1.9	7
34	Effect of Deep-Level Defects on Surface Recombination Velocity at the Interface Between Silicon and Dielectric Films. IEEE Transactions on Electron Devices, 2010, 57, 877-889.	3.0	6
35	Self-assembly of a 1-eicosanethiolate layer on InSb(100). Applied Surface Science, 2016, 370, 67-75.	6.1	6
36	Oxide Removal and Selective Etching of In from InSb(100) with TiCl4. Journal of Physical Chemistry C, 2011, 115, 19733-19740.	3.1	5

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37	Gas-Phase HF/Vapor Etching of Thermal Silicon Dioxide Films. Solid State Phenomena, 2003, 92, 207-210.	0.3	4
38	Repair of Porous Methylsilsesquioxane Films using Supercritical Carbon Dioxide. Materials Research Society Symposia Proceedings, 2004, 812, F1.4.1.	0.1	4
39	Surfactant templated oriented 1-D nanoscale platinum and palladium systems on a modified silicon surface. Nano Structures Nano Objects, 2019, 17, 1-6.	3.5	4
40	Dense Organosilane Monolayer Resist That Directs Highly Selective Atomic Layer Deposition. ACS Applied Nano Materials, 2020, 3, 3185-3194.	5.0	4
41	Passivation of InSb(100) with 1-Eicosanethiol Self-Assembled Monolayers. Solid State Phenomena, 2014, 219, 59-62.	0.3	3
42	Ammonia Photodissociation Promoted by Si(100). Journal of Physical Chemistry A, 2014, 118, 3880-3890.	2.5	2
43	Comparison of the Chemical Passivation of GaAs, In _{0.53} Ga _{0.47} As, and InSb with 1-Eicosanethiol. Solid State Phenomena, 0, 255, 55-60.	0.3	2
44	Atomic Layer Deposition of TiN below 600 K Using N ₂ H ₄ . Solid State Phenomena, 0, 282, 232-237.	0.3	2
45	In-Situ FTIR Kinetic Study in the Silylation of Low-k Films with Hexamethyldisilazane Dissolved in Supercritical CO2. Chemical Engineering Communications, 2016, 203, 908-916.	2.6	1
46	Study of Low-k Film Functionalization and Pore Sealing Using Chlorosilanes Dissolved in Supercritical Carbon Dioxide. Chemical Engineering Communications, 2016, 203, 880-889.	2.6	1
47	(Invited) Reaction of Aqueous Tetramethylammonium Sulfide on SiGe(100) 25% as a Function of pH. ECS Transactions, 2019, 92, 47-56.	0.5	1
48	Comparison of Inorganic and Organic Acid Etching Processes on Germanium (100). ECS Transactions, 2019, 92, 57-63.	0.5	1
49	Modified Organosilane Monolayers With Enhanced Radiation Stability. Langmuir, 2020, 36, 4116-4122.	3.5	1
50	Editorial from the Incoming Editor-in-Chief. IEEE Transactions on Semiconductor Manufacturing, 2014, 27, 454-454.	1.7	0
51	Editorial 2014 IEEE TSM Best Paper Award. IEEE Transactions on Semiconductor Manufacturing, 2015, 28, 444-444.	1.7	0
52	Editorial Kudos to Our Reviewers. IEEE Transactions on Semiconductor Manufacturing, 2015, 28, 443-443.	1.7	0
53	Editorial Kudos to Our Reviewers. IEEE Transactions on Semiconductor Manufacturing, 2016, 29, 390-390.	1.7	0
54	Editorial 2015 IEEE TSM Best Paper Award. IEEE Transactions on Semiconductor Manufacturing, 2016, 29, 69-69.	1.7	0

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55	(Invited) Speciation during Wet Etching of III-V Semiconductors. ECS Transactions, 2017, 80, 163-170.	0.5	O
56	Editorial 2016 Best Paper Award. IEEE Transactions on Semiconductor Manufacturing, 2017, 30, 314-314.	1.7	0
57	Editorial Kudos to Our Reviewers. IEEE Transactions on Semiconductor Manufacturing, 2017, 30, 313-313.	1.7	0
58	Changes in the Editorial Board. IEEE Transactions on Semiconductor Manufacturing, 2017, 30, 312-312.	1.7	0
59	Wet Chemical Cleaning of Organosilane Monolayers. Solid State Phenomena, 0, 314, 54-59.	0.3	0
60	(Invited) Reaction of Aqueous Tetramethylammonium Sulfide on SiGe(100) 25% as a Function of pH. ECS Meeting Abstracts, 2019, , .	0.0	0
61	Comparison of Inorganic and Organic Acid Etching Processes on Germanium(100). ECS Meeting Abstracts, 2019, , .	0.0	0