

Michael L Reed

List of Publications by Year in descending order

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34
papers

951
citations

759233

12
h-index

501196

28
g-index

34
all docs

34
docs citations

34
times ranked

1180
citing authors

#	ARTICLE	IF	CITATIONS
1	Large membrane deflection via capillary force actuation. <i>Journal of Micromechanics and Microengineering</i> , 2018, 28, 065008.	2.6	3
2	Failure Modes during Low-Voltage Electrowetting. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 15767-15777.	8.0	18
3	Interrogation of Droplet Configuration During Electrowetting via Impedance Spectroscopy. <i>Journal of Microelectromechanical Systems</i> , 2015, 24, 2092-2100.	2.5	4
4	Three-phase contact force equilibrium of liquid drops at hydrophilic and superhydrophobic surfaces. <i>Journal of Colloid and Interface Science</i> , 2013, 404, 179-182.	9.4	8
5	Enhanced Adhesion of Au Films by Electrodeposition onto Porous Si. <i>Journal of the Electrochemical Society</i> , 2013, 160, D507-D512.	2.9	4
6	The Capillary Force Actuator: Design, fabrication and characterization. , 2012, , .		2
7	Tailoring the Wetting Properties of Surface-Modified Nanostructured Gold Films. <i>Journal of Physical Chemistry C</i> , 2011, 115, 17097-17101.	3.1	9
8	The fabrication of low-impedance nanoporous gold multiple-electrode arrays for neural electrophysiology studies. <i>Nanotechnology</i> , 2010, 21, 125504.	2.6	115
9	A thermal treatment approach to reduce microscale void formation in blanket nanoporous gold films. <i>Scripta Materialia</i> , 2009, 60, 435-438.	5.2	34
10	Formation of Silicon Nanoporous Structures Induced by Colloidal Gold Nanoparticles in HF/H ₂ O ₂ Solutions. <i>Chemistry of Materials</i> , 2009, 21, 2721-2726.	6.7	13
11	Nanoporous Gold: Fabrication, Characterization, and Applications. <i>Materials</i> , 2009, 2, 2188-2215.	2.9	203
12	Kinetics of capillary wetting in nanoporous films in the presence of surface evaporation. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	12
13	Compressive Stress Accumulation in Composite Nanoporous Gold and Silicone Bilayer Membranes: Underlying Mechanisms and Remedies. <i>Materials Research Society Symposia Proceedings</i> , 2007, 1052, 1.	0.1	0
14	The effects of post-fabrication annealing on the mechanical properties of freestanding nanoporous gold structures. <i>Acta Materialia</i> , 2007, 55, 4593-4602.	7.9	94
15	CD34-reactive trichodiscoma. <i>Journal of Cutaneous Pathology</i> , 2007, 34, 808-808.	1.3	4
16	Antialiasing Encoder Interface With Sub-Nyquist Sampling. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2006, 55, 2029-2033.	4.7	6
17	Thermo-Mechanical and Size-Dependent Behavior of Freestanding AuAg and Nanoporous-Au Beams. <i>Materials Research Society Symposia Proceedings</i> , 2006, 976, 1.	0.1	0
18	Mitigation of tensile failure in released nanoporous metal microstructures via thermal treatment. <i>Applied Physics Letters</i> , 2006, 89, 133104.	3.3	25

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19	Observation of isolated nanopores formed by patterned anodic oxidation of aluminum thin films. Applied Physics Letters, 2006, 88, 2331-12.	3.3	7
20	CD34-reactive trichodiscoma. Journal of Cutaneous Pathology, 2004, 31, 398-400.	1.3	12
21	Micromachined magnetic ultrasound transducer in post-processed CMOS. Materials Research Society Symposia Proceedings, 2003, 773, 731.	0.1	0
22	Transimpedance Mode CMOS Microelectrode Array For In-Vitro Neuronal Activity Recording. Materials Research Society Symposia Proceedings, 2003, 773, 621.	0.1	1
23	Fabrication of Nanoscale Hydrophobic Regions on Anodic Alumina for Selective Adhesion of Biologic Molecules. Materials Research Society Symposia Proceedings, 2003, 773, 631.	0.1	0
24	Fabrication of a Conductometric Sensor for Crevice Corrosion Studies. Materials Research Society Symposia Proceedings, 2002, 729, 3131.	0.1	1
25	Microfabricated Crevice Former with a Sensor Array. Materials Research Society Symposia Proceedings, 2001, 687, 1.	0.1	0
26	Microfabrication of Crevice Corrosion Samples. Materials Research Society Symposia Proceedings, 2000, 657, 5311.	0.1	1
27	Submicron Patterned Anodic Oxidation of Aluminum Thin Films. Materials Research Society Symposia Proceedings, 2000, 636, 9491.	0.1	2
28	New technologies and applications in robotics. Communications of the ACM, 1994, 37, 58-67.	4.5	13
29	Silicon micro-velcro. Advanced Materials, 1992, 4, 48-51.	21.0	22
30	Chemistry of Si-SiO ₂ interface trap annealing. Journal of Applied Physics, 1988, 63, 5776-5793.	2.5	264
31	Si-SiO ₂ interface trap production by low-temperature thermal processing. Applied Physics Letters, 1987, 51, 514-516.	3.3	45
32	Two Reaction Model of Interface Trap Annealing. IEEE Transactions on Nuclear Science, 1986, 33, 1198-1202.	2.0	14
33	Kinetic Studies of Silicon - Silicon Dioxide Interface Trap Annealing Using Rapid Thermal Processing. Materials Research Society Symposia Proceedings, 1985, 52, 333.	0.1	4
34	Rapid thermal annealing of interface states in aluminum gate metal-oxide-silicon capacitors. Applied Physics Letters, 1985, 47, 400-402.	3.3	11