

Michael L Reed

List of Publications by Year in descending order

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34
papers

951
citations

759233

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501196

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34
all docs

34
docs citations

34
times ranked

1180
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemistry of SiO ₂ /Si interface trap annealing. Journal of Applied Physics, 1988, 63, 5776-5793.	2.5	264
2	Nanoporous Gold: Fabrication, Characterization, and Applications. Materials, 2009, 2, 2188-2215.	2.9	203
3	The fabrication of low-impedance nanoporous gold multiple-electrode arrays for neural electrophysiology studies. Nanotechnology, 2010, 21, 125504.	2.6	115
4	The effects of post-fabrication annealing on the mechanical properties of freestanding nanoporous gold structures. Acta Materialia, 2007, 55, 4593-4602.	7.9	94
5	SiO ₂ /Si interface trap production by low-temperature thermal processing. Applied Physics Letters, 1987, 51, 514-516.	3.3	45
6	A thermal treatment approach to reduce microscale void formation in blanket nanoporous gold films. Scripta Materialia, 2009, 60, 435-438.	5.2	34
7	Mitigation of tensile failure in released nanoporous metal microstructures via thermal treatment. Applied Physics Letters, 2006, 89, 133104.	3.3	25
8	Silicon micro-velcro. Advanced Materials, 1992, 4, 48-51.	21.0	22
9	Failure Modes during Low-Voltage Electrowetting. ACS Applied Materials & Interfaces, 2016, 8, 15767-15777.	8.0	18
10	Two Reaction Model of Interface Trap Annealing. IEEE Transactions on Nuclear Science, 1986, 33, 1198-1202.	2.0	14
11	New technologies and applications in robotics. Communications of the ACM, 1994, 37, 58-67.	4.5	13
12	Formation of Silicon Nanoporous Structures Induced by Colloidal Gold Nanoparticles in HF/H ₂ O ₂ Solutions. Chemistry of Materials, 2009, 21, 2721-2726.	6.7	13
13	CD34-reactive trichodiscoma. Journal of Cutaneous Pathology, 2004, 31, 398-400.	1.3	12
14	Kinetics of capillary wetting in nanoporous films in the presence of surface evaporation. Applied Physics Letters, 2008, 92, .	3.3	12
15	Rapid thermal annealing of interface states in aluminum gate metal-oxide-silicon capacitors. Applied Physics Letters, 1985, 47, 400-402.	3.3	11
16	Tailoring the Wetting Properties of Surface-Modified Nanostructured Gold Films. Journal of Physical Chemistry C, 2011, 115, 17097-17101.	3.1	9
17	Three-phase contact force equilibrium of liquid drops at hydrophilic and superhydrophobic surfaces. Journal of Colloid and Interface Science, 2013, 404, 179-182.	9.4	8
18	Observation of isolated nanopores formed by patterned anodic oxidation of aluminum thin films. Applied Physics Letters, 2006, 88, 233112.	3.3	7

#	ARTICLE	IF	CITATIONS
19	Antialiasing Encoder Interface With Sub-Nyquist Sampling. IEEE Transactions on Instrumentation and Measurement, 2006, 55, 2029-2033.	4.7	6
20	Kinetic Studies of Silicon - Silicon Dioxide Interface Trap Annealing Using Rapid Thermal Processing. Materials Research Society Symposia Proceedings, 1985, 52, 333.	0.1	4
21	CD34-reactive trichodiscoma. Journal of Cutaneous Pathology, 2007, 34, 808-808.	1.3	4
22	Enhanced Adhesion of Au Films by Electrodeposition onto Porous Si. Journal of the Electrochemical Society, 2013, 160, D507-D512.	2.9	4
23	Interrogation of Droplet Configuration During Electrowetting via Impedance Spectroscopy. Journal of Microelectromechanical Systems, 2015, 24, 2092-2100.	2.5	4
24	Large membrane deflection via capillary force actuation. Journal of Micromechanics and Microengineering, 2018, 28, 065008.	2.6	3
25	Submicron Patterned Anodic Oxidation of Aluminum Thin Films. Materials Research Society Symposia Proceedings, 2000, 636, 9491.	0.1	2
26	The Capillary Force Actuator: Design, fabrication and characterization. , 2012, , .		2
27	Microfabrication of Crevice Corrosion Samples. Materials Research Society Symposia Proceedings, 2000, 657, 5311.	0.1	1
28	Fabrication of a Conductometric Sensor for Crevice Corrosion Studies. Materials Research Society Symposia Proceedings, 2002, 729, 3131.	0.1	1
29	Transimpedance Mode CMOS Microelectrode Array For In-Vitro Neuronal Activity Recording. Materials Research Society Symposia Proceedings, 2003, 773, 621.	0.1	1
30	Microfabricated Crevice Former with a Sensor Array. Materials Research Society Symposia Proceedings, 2001, 687, 1.	0.1	0
31	Micromachined magnetic ultrasound transducer in post-processed CMOS. Materials Research Society Symposia Proceedings, 2003, 773, 731.	0.1	0
32	Thermo-Mechanical and Size-Dependent Behavior of Freestanding AuAg and Nanoporous-Au Beams. Materials Research Society Symposia Proceedings, 2006, 976, 1.	0.1	0
33	Compressive Stress Accumulation in Composite Nanoporous Gold and Silicone Bilayer Membranes: Underlying Mechanisms and Remedies. Materials Research Society Symposia Proceedings, 2007, 1052, 1.	0.1	0
34	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