John Provine

List of Publications by Year
in descending order

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40	765	567281 15	642732 23
papers	citations	h-index	g-index

43	43	43	1246
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Approaching the Limits of Aspect Ratio in Freeâ€Standing Al₂O₃ 3D Shell Structures. Advanced Engineering Materials, 2022, 24, .	3.5	2
2	Extending the limits of Pt/C catalysts with passivation-gas-incorporated atomic layer deposition. Nature Catalysis, 2018, 1, 624-630.	34.4	63
3	Back-end-of-line compatible Poly-SiGe lateral nanoelectromechanical relays with multi-level interconnect. Microsystem Technologies, 2017, 23, 2125-2130.	2.0	3
4	Process Control of Atomic Layer Deposition Molybdenum Oxide Nucleation and Sulfidation to Large-Area MoS₂ Monolayers. Chemistry of Materials, 2017, 29, 2024-2032.	6.7	47
5	Plasma-enhanced atomic layer deposition of superconducting niobium nitride. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2017, 35, .	2.1	20
6	Correlation of film density and wet etch rate in hydrofluoric acid of plasma enhanced atomic layer deposited silicon nitride. AIP Advances, 2016, 6, .	1.3	39
7	Plasma-enhanced atomic layer deposition of tungsten nitride. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2016, 34, 051516.	2.1	4
8	Plasma-Enhanced Atomic Layer Deposition of SiNâ€“AlN Composites for Ultra Low Wet Etch Rates in Hydrofluoric Acid. ACS Applied Materials & Interfaces, 2016, 8, 17599-17605.	8.0	15
9	Parallel preparation of plan-view transmission electron microscopy specimens by vapor-phase etching with integrated etch stops. Ultramicroscopy, 2016, 166, 39-47.	1.9	5
10	High-density waveguide superlattices with low crosstalk. Nature Communications, 2015, 6, 7027.	12.8	116
11	Integrated atomistic chemical imaging and reactive force field molecular dynamic simulations on silicon oxidation. Applied Physics Letters, 2015, 106, 011602.	3.3	21
12	Depletion of cells and abundant proteins from biological samples by enhanced dielectrophoresis. Sensors and Actuators B: Chemical, 2014, 193, 918-924.	7.8	27
13	Double-Layer Silicon Photonic Crystal Fiber-Tip Temperature Sensors. IEEE Photonics Technology Letters, 2014, 26, 900-903.	2.5	16
14	Combinational Logic Design Using Six-Terminal NEM Relays. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2013, 32, 653-666.	2.7	32
15	Laterally actuated nanoelectromechanical relays with compliant, low resistance contact. , 2013, , .		4
16	Dual-beam, six-terminal nanoelectromechanical relays. , 2013, , .		0
17	A photonic crystal cavity-optical fiber tip nanoparticle sensor for biomedical applications. Applied Physics Letters, 2012, 100, .	3.3	29
18	Double-layer silicon photonic crystal fiber tip temperature sensor. , 2012, , .		2

#	Article	IF	Citations
19	Electrical properties of CuPc-based OTFTs with atomic layer deposited HfAlO gate dielectric. , 2012, , .		0
20	Nano-Electro-Mechanical relays for FPGA routing: Experimental demonstration and a design technique. , 2012, , .		28
21	Application of principal component analysis to a full profile correlative analysis of FTIR spectra. Surface and Interface Analysis, 2012, 44, 365-371.	1.8	11
22	Integration of nanoelectromechanical (NEM) relays with silicon CMOS with functional CMOS-NEM circuit. , 2011, , .		49
23	Optical fiber tips functionalized with semiconductor photonic crystal cavities. Applied Physics Letters, 2011, 99, .	3.3	43
24	Photonic Crystal Fiber Tip Sensor for High-Temperature Measurement. IEEE Sensors Journal, 2011, 11, 2643-2648.	4.7	26
25	Multilayered Monolithic Silicon Photonic Crystals. IEEE Photonics Technology Letters, 2011, 23, 730-732.	2.5	7
26	Dual sidewall lateral nanoelectromechanical relays with beam isolation. , 2011, , .		9
27	A Method for Wafer-Scale Encapsulation of Large Lateral Deflection MEMS Devices. Journal of Microelectromechanical Systems, 2010, 19, 28-37.	2.5	75
28	pH sensor demonstrating a layout programmable squeeze pumped microfluidic platform. , 2010, , .		0
29	Characterization of Encapsulated Micromechanical Resonators Sealed and Coated With Polycrystalline SiC. Journal of Microelectromechanical Systems, 2010, 19, 357-366.	2.5	19
30	High temperature photonic crystal fiber tip sensor. , 2010, , .		2
31	Electromechanical sensing of charge retention on floating electrodes. , 2010, , .		0
32	Monolithic silicon photonic crystal slab fiber tip sensor. , 2009, , .		5
33	Photonic crystal fiber tip sensor for precision temperature sensing. , 2009, , .		5
34	Laser-printed magnetic-polymer microstructures. , 2009, , .		2
35	Large-Area Subwavelength Aperture Arrays Fabricated Using Nanoimprint Lithography. IEEE Nanotechnology Magazine, 2008, 7, 527-531.	2.0	27
36	The dependence of poly-crystalline SiC mid-infrared optical properties on deposition conditions. , 2008, , .		0

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37	Phonon Polariton Reflectance Spectra In a Silicon Carbide Membrane Hole Array. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	0
38	Extraordinary Transmission Through A Poly-SiC Membrane with Subwavelength Hole Arrays. , 2007, , .		3
39	Effect of a Vertical Stack of Aligned Subwavelength Metal Hole Arrays on Extraordinary Transmission Spectra. , 2007, , .		0
40	Tunable Subwavelength Metal Gratings in the Mid-IR Band. IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 270-276.	2.9	9