

John Provine

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

765
citations

567281

15
h-index

642732

23
g-index

43
all docs

43
docs citations

43
times ranked

1246
citing authors

#	ARTICLE	IF	CITATIONS
1	High-density waveguide superlattices with low crosstalk. Nature Communications, 2015, 6, 7027.	12.8	116
2	A Method for Wafer-Scale Encapsulation of Large Lateral Deflection MEMS Devices. Journal of Microelectromechanical Systems, 2010, 19, 28-37.	2.5	75
3	Extending the limits of Pt/C catalysts with passivation-gas-incorporated atomic layer deposition. Nature Catalysis, 2018, 1, 624-630.	34.4	63
4	Integration of nanoelectromechanical (NEM) relays with silicon CMOS with functional CMOS-NEM circuit. , 2011, , .		49
5	Process Control of Atomic Layer Deposition Molybdenum Oxide Nucleation and Sulfidation to Large-Area MoS ₂ Monolayers. Chemistry of Materials, 2017, 29, 2024-2032.	6.7	47
6	Optical fiber tips functionalized with semiconductor photonic crystal cavities. Applied Physics Letters, 2011, 99, .	3.3	43
7	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
8	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
9	A photonic crystal cavity-optical fiber tip nanoparticle sensor for biomedical applications. Applied Physics Letters, 2012, 100, .	3.3	29
10	Nano-Electro-Mechanical relays for FPGA routing: Experimental demonstration and a design technique. , 2012, , .		28
11	Large-Area Subwavelength Aperture Arrays Fabricated Using Nanoimprint Lithography. IEEE Nanotechnology Magazine, 2008, 7, 527-531.	2.0	27
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	Photonic Crystal Fiber Tip Sensor for High-Temperature Measurement. IEEE Sensors Journal, 2011, 11, 2643-2648.	4.7	26
14	Integrated atomistic chemical imaging and reactive force field molecular dynamic simulations on silicon oxidation. Applied Physics Letters, 2015, 106, 011602.	3.3	21
15	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
16	Characterization of Encapsulated Micromechanical Resonators Sealed and Coated With Polycrystalline SiC. Journal of Microelectromechanical Systems, 2010, 19, 357-366.	2.5	19
17	Double-Layer Silicon Photonic Crystal Fiber-Tip Temperature Sensors. IEEE Photonics Technology Letters, 2014, 26, 900-903.	2.5	16
18	Plasma-Enhanced Atomic Layer Deposition of SiN _x -AlN Composites for Ultra Low Wet Etch Rates in Hydrofluoric Acid. ACS Applied Materials & Interfaces, 2016, 8, 17599-17605.	8.0	15

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19	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
20	Tunable Subwavelength Metal Gratings in the Mid-IR Band. IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 270-276.	2.9	9
21	Dual sidewall lateral nanoelectromechanical relays with beam isolation. , 2011, , .		9
22	Multilayered Monolithic Silicon Photonic Crystals. IEEE Photonics Technology Letters, 2011, 23, 730-732.	2.5	7
23	Monolithic silicon photonic crystal slab fiber tip sensor. , 2009, , .		5
24	Photonic crystal fiber tip sensor for precision temperature sensing. , 2009, , .		5
25	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
26	Laterally actuated nanoelectromechanical relays with compliant, low resistance contact. , 2013, , .		4
27	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
28	Extraordinary Transmission Through A Poly-SiC Membrane with Subwavelength Hole Arrays. , 2007, , .		3
29	Back-end-of-line compatible Poly-SiGe lateral nanoelectromechanical relays with multi-level interconnect. Microsystem Technologies, 2017, 23, 2125-2130.	2.0	3
30	Laser-printed magnetic-polymer microstructures. , 2009, , .		2
31	High temperature photonic crystal fiber tip sensor. , 2010, , .		2
32	Double-layer silicon photonic crystal fiber tip temperature sensor. , 2012, , .		2
33	Approaching the Limits of Aspect Ratio in Free- Al_2O_3 3D Shell Structures. Advanced Engineering Materials, 2022, 24, .	3.5	2
34	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
35	Effect of a Vertical Stack of Aligned Subwavelength Metal Hole Arrays on Extraordinary Transmission Spectra. , 2007, , .		0
36	The dependence of poly-crystalline SiC mid-infrared optical properties on deposition conditions. , 2008, , .		0

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37	pH sensor demonstrating a layout programmable squeeze pumped microfluidic platform. , 2010, , .		0
38	Electromechanical sensing of charge retention on floating electrodes. , 2010, , .		0
39	Electrical properties of CuPc-based OTFTs with atomic layer deposited HfAlO gate dielectric. , 2012, , .		0
40	Dual-beam, six-terminal nanoelectromechanical relays. , 2013, , .		0