Sharon M Weiss

List of Publications by Year
in descending order

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25 papers	671 citations	840119 11 h-index	580395 25 g-index
25 all docs	25 docs citations	25 times ranked	893 citing authors

#	Article	IF	Citations
1	Photonic crystals with split ring unit cells for subwavelength light confinement. Optics Letters, 2022, 47, 661.	1.7	4
2	Radiation-Induced Transient Response Mechanisms in Photonic Waveguides. IEEE Transactions on Nuclear Science, 2022, 69, 546-557.	1.2	2
3	Photonic metacrystal: design methodology and experimental characterization. Optics Express, 2022, 30, 7612.	1.7	3
4	Subâ€Picosecond Response Time of a Hybrid VO₂:Silicon Waveguide at 1550Ânm. Advanced Optical Materials, 2021, 9, 2001721.	3.6	24
5	Simulation of Pulsed Laser-Induced Testing in Microelectronic Devices. IEEE Transactions on Nuclear Science, 2021, , 1-1.	1.2	2
6	Comparison of Single-Event Transients in an Epitaxial Silicon Diode Resulting From Heavy-Ion-, Focused X-Ray-, and Pulsed Laser-Induced Charge Generation. IEEE Transactions on Nuclear Science, 2021, 68, 626-633.	1.2	5
7	Single-Event Transient Response of Vertical and Lateral Waveguide-Integrated Germanium Photodiodes. IEEE Transactions on Nuclear Science, 2021, 68, 801-806.	1.2	7
8	Morlet Wavelet Filtering and Phase Analysis to Reduce the Limit of Detection for Thin Film Optical Biosensors. ACS Sensors, 2021, 6, 2967-2978.	4.0	17
9	High contrast cleavage detection for enhancing porous silicon sensor sensitivity. Optics Express, 2021, 29, 1.	1.7	17
10	Porous Silicon-Based Aptasensors: Toward Cancer Protein Biomarker Detection. ACS Measurement Science Au, 2021, 1, 82-94.	1.9	10
11	Comparison of Sensitive Volumes Associated With Ion- and Laser-Induced Charge Collection in an Epitaxial Silicon Diode. IEEE Transactions on Nuclear Science, 2020, 67, 57-62.	1.2	5
12	Polarization Dependence of Pulsed Laser-Induced SEEs in SOI FinFETs. IEEE Transactions on Nuclear Science, 2020, 67, 38-43.	1.2	8
13	Thermally Carbonized Porous Silicon for Robust Label-Free DNA Optical Sensing. ACS Applied Bio Materials, 2020, 3, 622-627.	2.3	17
14	Tuning Composition of Polymer and Porous Silicon Composite Nanoparticles for Early Endosome Escape of Anti-microRNA Peptide Nucleic Acids. ACS Applied Materials & Interfaces, 2020, 12, 39602-39611.	4.0	15
15	O-Band Subwavelength Grating Filters in a Monolithic Photonics Technology. IEEE Photonics Technology Letters, 2020, 32, 1207-1210.	1.3	6
16	Controlling the mode profile of photonic crystal nanobeam cavities with mix-and-match unit cells. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 3401.	0.9	5
17	Bloch surface wave ring resonator based on porous silicon. Applied Physics Letters, 2019, 115, 011101.	1.5	21
18	A smartphone biosensor based on analysing structural colour of porous silicon. Analyst, The, 2019, 144, 3942-3948.	1.7	21

#	Article	IF	Citations
19	Porous Silicon-Based Photonic Biosensors: Current Status and Emerging Applications. Analytical Chemistry, 2019, 91, 441-467.	3.2	141
20	Efficient side-coupling to photonic crystal nanobeam cavities via state-space overlap. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 585.	0.9	7
21	Photonic crystal nanobeam biosensors based on porous silicon. Optics Express, 2019, 27, 9536.	1.7	36
22	Camera detection and modal fingerprinting of photonic crystal nanobeam resonances. Optics Express, 2019, 27, 14623.	1.7	5
23	Experimental realization of deep-subwavelength confinement in dielectric optical resonators. Science Advances, 2018, 4, eaat2355.	4.7	117
24	Biosensors: Immobilization of Quantum Dots in Nanostructured Porous Silicon Films: Characterizations and Signal Amplification for Dualâ€Mode Optical Biosensing (Adv. Funct. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.8	3
25	Nanoscale porous silicon waveguide for label-free DNA sensing. Biosensors and Bioelectronics, 2008, 23, 1572-1576.	5.3	173