Debabrata Sikdar

List of Publications by Year
in descending order

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62	1,293	394421	361022
papers	citations	19 h-index	35 g-index

63	63	63	1637
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Selective thermal emitters for high-performance all-day radiative cooling. Journal Physics D: Applied Physics, 2022, 55, 085504.	2.8	9
2	Multilayer thin-film based nanophotonic windows: static versus electrotunable design. Journal of Optics (United Kingdom), 2022, 24, 024002.	2.2	5
3	Cell Sheetâ€Like Soft Nanoreactor Arrays. Advanced Materials, 2022, 34, e2105630.	21.0	4
4	Nanophotonics-Enabled High-Efficiency Selective Solar Absorbers for Waste Heat Management. IEEE Nanotechnology Magazine, 2022, 21, 131-136.	2.0	4
5	Plasmonic Superlattice Membranes Based on Bimetallic Nano-Sea Urchins as High-Performance Label-Free Surface-Enhanced Raman Spectroscopy Platforms. ACS Sensors, 2022, 7, 622-631.	7.8	12
6	Infrared-blocking plasmonic meta-glass for energy-saving passive windows. Optics Letters, 2022, 47, 2242.	3.3	4
7	Parallel directional coupler based dual-polarization electro-absorption modulator using epsilon near-zero material. Journal Physics D: Applied Physics, 2022, 55, 135107.	2.8	9
8	Tunable terahertz absorption modulation in graphene nanoribbon-assisted dielectric metamaterial. Journal Physics D: Applied Physics, 2022, 55, 285101.	2.8	7
9	Coupling-assisted Epsilon-Near-Zero Material based Energy-efficient Electro-Absorption Modulator. , 2022, , .		2
10	Vanadium Dioxide Assisted Thermo-optic Perfect Absorbers for Optical Switching. , 2022, , .		1
11	Nanophotonic All-weather Windows for Energy-efficient Smart Buildings. , 2021, , .		0
12	Polarization- and angle-insensitive ultrabroadband perfect metamaterial absorber for thermophotovoltaics. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 327.	2.1	30
13	Energy-saving all-weather window based on selective filtering of solar spectral radiation. Applied Optics, 2021, 60, 1315.	1.8	19
14	Design of electrotunable all-weather smart windows. Solar Energy Materials and Solar Cells, 2021, 222, 110921.	6.2	30
15	Crossâ€“Ring Based Broadband Plasmonic Metamaterial Absorbers for Boosting Silicon Solar Cell Efficiency. , 2021, , .		1
16	Polarization-insensitive Electro-tunable Broadband Plasmonic Metamaterial Absorber for Amplitude Modulation. , 2021, , .		4
17	Spectrally Selective Nanophotonic Windows for Aiding Photosynthesis in Greenhouses. , 2021, , .		0
18	Gold Nanopolyhedron-Based Superlattice Sheets as Flexible Surface-Enhanced Raman Scattering Sensors for Detection of 4-Aminothiophenol. ACS Applied Nano Materials, 2021, 4, 12498-12505.	5.0	8

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19	Guided-Mode Resonance based All-dielectric Optical Intensity Modulator. , 2021, , .		4
20	Two-Dimensional Nanoassemblies from Plasmonic Matryoshka Nanoframes. Journal of Physical Chemistry C, 2021, 125, 27753-27762.	3.1	5
21	Electrotunable Nanoplasmonics for Amplified Surface Enhanced Raman Spectroscopy. ACS Nano, 2020, 14, 328-336.	14.6	32
22	Nanoparticle meta-grid for enhanced light extraction from light-emitting devices. Light: Science and Applications, 2020, 9, 122.	16.6	9
23	Self-assembling two-dimensional nanophotonic arrays for reflectivity-based sensing. Chemical Science, 2020, 11, 9563-9570.	7.4	8
24	Multiscale Patterned Plasmonic Arrays for Highly Sensitive and Uniform SERS Detection. Advanced Materials Interfaces, 2020, 7, 2000248.	3.7	7
25	Low-power design of electrotunable color filters and optical switches. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 3865.	2.1	14
26	Auxetic Thermoresponsive Nanoplasmonic Optical Switch. ACS Applied Materials & Interfaces, 2019, 11, 22754-22760.	8.0	13
27	Editorial: A special issue on plasmonic metamaterials. Journal of Physics Condensed Matter, 2019, 31, 310401.	1.8	1
28	2D Freestanding Janus Gold Nanocrystal Superlattices. Advanced Materials, 2019, 31, e1900989.	21.0	38
29	Site-specific Ag coating on concave Au nanoarrows by controlling the surfactant concentration. Nanoscale Horizons, 2019, 4, 940-946.	8.0	11
30	Ultra-broadband Wide-Angle Metallo-Dielectric Metamaterial Absorber for Solar Energy Harvesting. , 2019, , .		4
31	An electro-tunable Fabryâ€“Perot interferometer based on dual mirror-on-mirror nanoplasmonic metamaterials. Nanophotonics, 2019, 8, 2279-2290.	6.0	12
32	Optical response of electro-tuneable 3D superstructures of plasmonic nanoparticles self-assembling on transparent columnar electrodes. Optics Express, 2019, 27, 26483.	3.4	5
33	Towards Electrotuneable Nanoplasmonic Fabryâ€“Perot Interferometer. Scientific Reports, 2018, 8, 565.	3.3	19
34	Shape Transformation of Constituent Building Blocks within Self-Assembled Nanosheets and Nano-origami. ACS Nano, 2018, 12, 1014-1022.	14.6	18
35	A Tunable Nanoplasmonic Mirror at an Electrochemical Interface. ACS Photonics, 2018, 5, 4604-4616.	6.6	23
36	Electrochemical plasmonic metamaterials: towards fast electro-tuneable reflecting nanoshutters. Faraday Discussions, 2017, 199, 585-602.	3.2	10

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37	Electrotunable nanoplasmonic liquid mirror. Nature Materials, 2017, 16, 1127-1135.	27.5	115
38	Electrovariable nanoplasmonics: general discussion. Faraday Discussions, 2017, 199, 603-613.	3.2	1
39	Self-Assembled Plasmonic Pyramids from Anisotropic Nanoparticles for High-Efficient SERS. Journal of Analysis and Testing, 2017, 1, 335-343.	5.1	7
40	MoS$_2$ Broadband Coherent Perfect Absorber for Terahertz Waves. IEEE Photonics Journal, 2016, 8, 1-7.	2.0	31
41	Tuneable 2D self-assembly of plasmonic nanoparticles at liquid|liquid interfaces. Nanoscale, 2016, 8, 19229-19241.	5.6	56
42	Unravelling the optical responses of nanoplasmonic mirror-on-mirror metamaterials. Physical Chemistry Chemical Physics, 2016, 18, 20486-20498.	2.8	18
43	Theory of tailorable optical response of two-dimensional arrays of plasmonic nanoparticles at dielectric interfaces. Scientific Reports, 2016, 6, 33712.	3.3	39
44	Matryoshka-caged gold nanorods: Synthesis, plasmonic properties, and catalytic activity. Nano Research, 2016, 9, 415-423.	10.4	31
45	Two-Dimensional Bipyramid Plasmonic Nanoparticle Liquid Crystalline Superstructure with Four Distinct Orientational Packing Orders. ACS Nano, 2016, 10, 967-976.	14.6	101
46	Polarization multiplexed interrogation technique for FBG sensor array. Photonic Sensors, 2015, 5, 193-201.	5.0	2
47	SERS: Ultrathin Plasmene Nanosheets as Soft and Surface-Attachable SERS Substrates with High Signal Uniformity (Advanced Optical Materials 7/2015). Advanced Optical Materials, 2015, 3, 918-918.	7.3	3
48	Dualâ€Coded Plasmene Nanosheets as Nextâ€Generation Anticounterfeit Security Labels. Advanced Optical Materials, 2015, 3, 1710-1717.	7.3	78
49	Ultrathin Plasmene Nanosheets as Soft and Surfaceâ€Attachable SERS Substrates with High Signal Uniformity. Advanced Optical Materials, 2015, 3, 919-924.	7.3	66
50	Substrate-Mediated Broadband Tunability in Plasmonic Resonances of Metal Nanoantennas on Finite High-Permittivity Dielectric Substrate. Plasmonics, 2015, 10, 1663-1673.	3.4	13
51	Gold Nanoparticles with Gain-assisted Coating for Ultra-sensitive Biomedical Sensing. Plasmonics, 2015, 10, 881-886.	3.4	11
52	Multilayered coreâ€“satellite nanoassemblies with fine-tunable broadband plasmon resonances. Nanoscale, 2015, 7, 3445-3452.	5.6	42
53	Plasmonic coreâ€“shell nanoparticles for SERS detection of the pesticide thiram: size- and shape-dependent Raman enhancement. Nanoscale, 2015, 7, 2862-2868.	5.6	153
54	Interfacial assembly of mesoporous nanopyramids as ultrasensitive cellular interfaces featuring efficient direct electrochemistry. NPG Asia Materials, 2015, 7, e204-e204.	7.9	14

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55	Large-Scale Self-Assembly and Stretch-Induced Plasmonic Properties of Coreâ€“Shell Metal Nanoparticle Superlattice Sheets. Journal of Physical Chemistry C, 2014, 118, 26816-26824.	3.1	42
56	Tunable Broadband Optical Responses of Substrate-Supported Metal/Dielectric/Metal Nanospheres. Plasmonics, 2014, 9, 659-672.	3.4	28
57	Investigation of RZ and NRZ pulse shape for optimum Duobinary transmission at 40 Gbps. Optik, 2013, 124, 1148-1151.	2.9	5
58	Investigation of modulator chirp and extinction ratio in different RZ- and NRZ duobinary transmitter modules for performance optimization. Optik, 2013, 124, 1411-1414.	2.9	1
59	Effect of number density on optimal design of gold nanoshells for plasmonic photothermal therapy. Biomedical Optics Express, 2013, 4, 15.	2.9	41
60	Simulation and performance analysis of duobinary 40â€‰Gbps optical link. Journal of Modern Optics, 2012, 59, 903-911.	1.3	10
61	Optimum dispersion map profile for a stable DM soliton system. Journal of Modern Optics, 2012, 59, 1396-1405.	1.3	1
62	SPM induced limitations for 40 Gbps chirped Gaussian pulses in optical channel. Optik, 2012, 123, 1482-1485.	2.9	2