Debashis Chanda

List of Publications by Year
in descending order

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64 papers	2,978 citations	186265 28 h-index	161849 54 g-index
64 all docs	64 docs citations	64 times ranked	4460 citing authors

#	Article	IF	Citations
1	Large-area flexible 3D optical negative index metamaterial formed by nanotransfer printing. Nature Nanotechnology, 2011, 6, 402-407.	31.5	289
2	Polarization-independent actively tunable colour generation on imprinted plasmonic surfaces. Nature Communications, 2015, 6, 7337.	12.8	273
3	Wireless optoelectronic photometers for monitoring neuronal dynamics in the deep brain. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E1374-E1383.	7.1	167
4	Coupling of plasmonic and optical cavity modes in quasi-three-dimensional plasmonic crystals. Nature Communications, 2011, 2, 479.	12.8	162
5	Fully implantable optoelectronic systems for battery-free, multimodal operation in neuroscience research. Nature Electronics, 2018, 1, 652-660.	26.0	157
6	Adaptive Multispectral Infrared Camouflage. ACS Photonics, 2018, 5, 4513-4519.	6.6	134
7	Actively addressed single pixel full-colour plasmonic display. Nature Communications, 2017, 8, 15209.	12.8	128
8	Porosity control in metal-assisted chemical etching of degenerately doped silicon nanowires. Nanotechnology, 2012, 23, 305304.	2.6	118
9	Roadmap on optical metamaterials. Journal of Optics (United Kingdom), 2016, 18, 093005.	2.2	118
10	Wireless, battery-free optoelectronic systems as subdermal implants for local tissue oximetry. Science Advances, 2019, 5, eaaw0873.	10.3	116
11	Biodegradable Monocrystalline Silicon Photovoltaic Microcells as Power Supplies for Transient Biomedical Implants. Advanced Energy Materials, 2018, 8, 1703035.	19.5	98
12	Performance of Ultrathin Silicon Solar Microcells with Nanostructures of Relief Formed by Soft Imprint Lithography for Broad Band Absorption Enhancement. Nano Letters, 2010, 10, 3041-3046.	9.1	91
13	Enzyme-Free Plasmonic Biosensor for Direct Detection of Neurotransmitter Dopamine from Whole Blood. Nano Letters, 2019, 19, 449-454.	9.1	80
14	Switchable Pancharatnamâ€“Berry microlens array with nano-imprinted liquid crystal alignment. Optics Letters, 2018, 43, 5062.	3.3	68
15	Light Trapping in Ultrathin Monocrystalline Silicon Solar Cells. Advanced Energy Materials, 2013, 3, 1401-1406.	19.5	61
16	Superchiral Light Generation on Degenerate Achiral Surfaces. Physical Review Letters, 2018, 120, 137601.	7.8	58
17	Adaptive liquid crystal microlens array enabled by two-photon polymerization. Optics Express, 2018, 26, 21184.	3.4	55
18	Self-assembled plasmonics for angle-independent structural color displays with actively addressed black states. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 13350-13358.	7.1	54

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19	Nanoimprinting Techniques for Large-Area Three-Dimensional Negative Index Metamaterials with Operation in the Visible and Telecom Bands. ACS Nano, 2014, 8, 5535-5542.	14.6	51
20	Covert infrared image encoding through imprinted plasmonic cavities. Light: Science and Applications, 2018, 7, 93.	16.6	51
21	Wide Angle Dynamically Tunable Enhanced Infrared Absorption on Large-Area Nanopatterned Graphene. ACS Nano, 2019, 13, 421-428.	14.6	49
22	Hybrid Coupling Mechanism in a System Supporting High Order Diffraction, Plasmonic, and Cavity Resonances. Physical Review Letters, 2014, 113, 263902.	7.8	47
23	Experimental Study of Design Parameters in Silicon Micropillar Array Solar Cells Produced by Soft Lithography and Metal-Assisted Chemical Etching. IEEE Journal of Photovoltaics, 2012, 2, 129-133.	2.5	46
24	Dirac plasmon-assisted asymmetric hot carrier generation for room-temperature infrared detection. Nature Communications, 2019, 10, 3498.	12.8	44
25	Novel liquid crystal photonic devices enabled by two-photon polymerization [Invited]. Optics Express, 2019, 27, 11472.	3.4	44
26	Dynamically tunable extraordinary light absorption in monolayer graphene. Physical Review B, 2017, 96, .	3.2	43
27	Multi-level diffractive optics for single laser exposure fabrication of telecom-band diamond-like 3-dimensional photonic crystals. Optics Express, 2008, 16, 15402.	3.4	35
28	One-dimensional diffractive optical element based fabrication and spectral characterization of three-dimensional photonic crystal templates. Optics Express, 2006, 14, 8568.	3.4	34
29	Biocompatible Light Guideâ€Assisted Wearable Devices for Enhanced UV Light Delivery in Deep Skin. Advanced Functional Materials, 2021, 31, 2100576.	14.9	26
30	Polarization-independent phase modulators enabled by two-photon polymerization. Optics Express, 2017, 25, 33688.	3.4	24
31	DNA-Modified Plasmonic Sensor for the Direct Detection of Virus Biomarkers from the Blood. Nano Letters, 2021, 21, 7505-7511.	9.1	24
32	Unified Electromagnetic-Electronic Design of Light Trapping Silicon Solar Cells. Scientific Reports, 2016, 6, 31013.	3.3	23
33	Materials Selections and Growth Conditions for Largeâ€Area, Multilayered, Visible Negative Index Metamaterials Formed by Nanotransfer Printing. Advanced Optical Materials, 2014, 2, 256-261.	7.3	22
34	Dual exposure, two-photon, conformal phase mask lithography for three dimensional silicon inverse woodpile photonic crystals. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2010, 28, 783-788.	1.2	18
35	Two-photon polymerization enabled multi-layer liquid crystal phase modulator. Scientific Reports, 2017, 7, 16260.	3.3	18
36	Phase tunable multilevel diffractive optical element based single laser exposure fabrication of three-dimensional photonic crystal templates. Applied Physics Letters, 2007, 91, 061122.	3.3	17

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37	Hybrid cavity-coupled plasmonic biosensors for low concentration, label-free and selective biomolecular detection. Optics Express, 2016, 24, 25785.	3.4	13
38	Multi-spectral frequency selective mid-infrared microbolometers. Optics Express, 2018, 26, 32931.	3.4	13
39	Mechanisms of Enhanced Optical Absorption for Ultrathin Silicon Solar Microcells with an Integrated Nanostructured Backside Reflector. ACS Applied Materials & Interfaces, 2013, 5, 4239-4246.	8.0	12
40	Cavity-induced hybrid plasmon excitation for perfect infrared absorption. Optics Letters, 2018, 43, 6001.	3.3	11
41	Coherent stitching of light in multilayered diffractive optical elements. Optics Express, 2012, 20, 23960.	3.4	10
42	Highâ€Efficiency Broadband Midâ€Infrared Flat Lens. Advanced Optical Materials, 2018, 6, 1800216.	7.3	9
43	Observation of dynamic screening in the excited exciton states in multilayered <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoS</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> Physical Review B, 2021, 103, .	3.2	9
44	Colored, Covert Infrared Display through Hybrid Planarâ€Plasmonic Cavities. Advanced Optical Materials, 2021, 9, 2100429.	7.3	9
45	Magnetoplasmons for Ultrasensitive Label-Free Biosensing. ACS Photonics, 2021, 8, 1316-1323.	6.6	8
46	Atomic Layer Deposition Tuning of Subwavelength Aluminum Grating for Angle-Insensitive Plasmonic Color. ACS Applied Nano Materials, 2018, 1, 5210-5216.	5.0	7
47	Broadband angle-independent antireflection coatings on nanostructured light trapping solar cells. Physical Review Materials, 2018, 2, .	2.4	6
48	Single laser exposure fabrication of diamond-like 3-dimensional photonic crystal microstructures using circularly polarized light. Applied Physics A: Materials Science and Processing, 2008, 93, 33-37.	2.3	5
49	Flexible fabrication of three-dimensional optical-domain photonic crystals using a combination of single-laser-exposure diffractive-optics lithography and template inversion. Optics Letters, 2009, 34, 3920.	3.3	5
50	Diffractive optical elements based fabrication of photonic crystals. , 2006, , .		4
51	Light Trapping: Light Trapping in Ultrathin Monocrystalline Silicon Solar Cells (Adv. Energy Mater.) Tj ETQq1 1 0.784314 rgBT /Overlock	19.5	4
52	Negative Index Materials: Materials Selections and Growth Conditions for Large-Area, Multilayered, Visible Negative Index Metamaterials Formed by Nanotransfer Printing (Advanced Optical Materials) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2	2
53	3D-laser nanofabrication: Diffractive holography versus femtosecond direct writing. , 2006, , .		1
54	Diffractive Optical Elements based Single-Step Fabrication of 3-Dimensional Photonic Crystal Templates. , 2007, , .		1

#	Article	IF	Citations
55	Two-dimensional diffractive optical element based fabrication of 3D photonic crystal templates. , 2007, , .		1
56	44â€3: Large Area Multiâ€Layer Liquid Crystal Phase Modulators Enabled by Twoâ€Photon Polymerization. Digest of Technical Papers SID International Symposium, 2018, 49, 585-588.	0.3	1
57	Vanadium Oxide Thin Film by Aqueous Spray Deposition. MRS Advances, 2018, 3, 2777-2782.	0.9	1
58	Colored, Covert Infrared Display through Hybrid Planarâ€Plasmonic Cavities (Advanced Optical) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	7.3	1
59	Superchiral light generation on achiral nanostructured surfaces. , 2018, , .		1
60	Inversion of 3-dimensional polymer photonic crystal fabricated by diffractive optics laser lithography. , 2009, , .		1
61	Wireless signal-preamble assisted Mach-Zehnder modulator bias stabilisation in wireless signal transmission over optical fibre. European Transactions on Telecommunications, 2008, 19, 669-679.	1.2	0
62	Diffractive optic near-field interference based fabrication of telecom band diamond-like 3-dimensional photonic crystals. , 2008, , .		0
63	59â€3: Active Refractive and Diffractive Liquidâ€Crystal Microlens Arrays Enabled by Twoâ€Photon Polymerization. Digest of Technical Papers SID International Symposium, 2019, 50, 834-837.	0.3	0
64	Organic Nonâ€Wettable Superhydrophobic Fullerite Films (Adv. Mater. 32/2021). Advanced Materials, 2021, 33, 2170250.	21.0	0