

# Basudeb Sain

## List of Publications by Year in descending order

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Version: 2024-02-01

33  
papers

1,511  
citations

566801

15  
h-index

552369

26  
g-index

33  
all docs

33  
docs citations

33  
times ranked

1242  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Versatile Metasurface Enabling Superwettability for Self-Cleaning and Dynamic Color Response. <i>Advanced Optical Materials</i> , 2022, 10, 2101781.	3.6	6
2	Efficient Frequency Conversion with Geometric Phase Control in Optical Metasurfaces. <i>Advanced Science</i> , 2022, 9, e2104508.	5.6	11
3	Spin-Orbit Interaction of Light Enabled by Negative Coupling in High-Quality-Factor Optical Metasurfaces. <i>Physical Review Applied</i> , 2022, 17, .	1.5	1
4	Optical secret sharing with cascaded metasurface holography. <i>Science Advances</i> , 2021, 7, .	4.7	139
5	A wavelength and polarization selective photon sieve for holographic applications. <i>Nanophotonics</i> , 2021, 10, 4543-4550.	2.9	9
6	Observing OD subwavelength-localized modes at ~100 THz protected by weak topology. <i>Science Advances</i> , 2021, 7, eabl3903.	4.7	7
7	A dielectric metasurface optical chip for the generation of cold atoms. <i>Science Advances</i> , 2020, 6, eabb6667.	4.7	69
8	Nonlinear Imaging with All-Dielectric Metasurfaces. <i>Nano Letters</i> , 2020, 20, 4370-4376.	4.5	91
9	Nonlinear Wavefront Control by Geometric-Phase Dielectric Metasurfaces: Influence of Mode Field and Rotational Symmetry. <i>Advanced Optical Materials</i> , 2020, 8, 1902050.	3.6	38
10	Polarization-Encrypted Orbital Angular Momentum Multiplexed Metasurface Holography. <i>ACS Nano</i> , 2020, 14, 5553-5559.	7.3	155
11	Metasurfaces help lasers to mode-lock. <i>Light: Science and Applications</i> , 2020, 9, 67.	7.7	9
12	All-dielectric silicon metalens for two-dimensional particle manipulation in optical tweezers. <i>Photonics Research</i> , 2020, 8, 1435.	3.4	56
13	Nonlinear dielectric metasurfaces: Towards high efficiency and full spatial phase control. , 2020, , .		0
14	Silicon Metasurfaces for Third Harmonic Geometric Phase Manipulation and Multiplexed Holography. <i>Nano Letters</i> , 2019, 19, 6585-6591.	4.5	77
15	Metasurface interferometry toward quantum sensors. <i>Light: Science and Applications</i> , 2019, 8, 70.	7.7	93
16	Simultaneous Spectral and Spatial Modulation for Color Printing and Holography Using All-Dielectric Metasurfaces. <i>Nano Letters</i> , 2019, 19, 8964-8971.	4.5	103
17	Optimizing the Nonlinear Optical Response of Plasmonic Metasurfaces. <i>Nano Letters</i> , 2019, 19, 261-268.	4.5	22
18	Nonlinear optics in all-dielectric nanoantennas and metasurfaces: a review. <i>Advanced Photonics</i> , 2019, 1, 1.	6.2	165

#	ARTICLE	IF	CITATIONS
19	Nonlinear dielectric metalenses: imaging and higher-order correlations. , 2019, , .		0
20	Metasurface based multichannel vectorial holograms (Conference Presentation). , 2019, , .		0
21	Multichannel vectorial holographic display and encryption. Light: Science and Applications, 2018, 7, 95.	7.7	291
22	Plasmonic flat surface Fabry-Perot interferometry. Nanophotonics, 2018, 7, 635-641.	2.9	4
23	Optimizing the nonlinear optical response of plasmonic metasurfaces. , 2018, , .		0
24	Phase-controlled propagation of surface plasmons. Light: Science and Applications, 2017, 6, e17072-e17072.	7.7	10
25	Plasmonic Coupling in Metal Nanocavities. , 2017, , .		0
26	Controlled Wake Fields in Interfering Propagating Surface Plasmons. , 2016, , .		0
27	Rapid synthesis of nc-Si/a-SiN <sub>x</sub> :H QD thin films by plasma processing for their cost effective applications in photonic and photovoltaic devices. RSC Advances, 2015, 5, 63572-63579.	1.7	10
28	Self-assembled nc-Si/a-SiN <sub>x</sub> :H quantum dots thin films: An alternative solid-state light emitting material. Journal of Luminescence, 2015, 158, 11-18.	1.5	8
29	Low temperature plasma processing of nc-Si/a-SiN <sub>x</sub> :H QD thin films with high carrier mobility and preferred (220) crystal orientation: a promising material for third generation solar cells. RSC Advances, 2014, 4, 36929-36939.	1.7	14
30	Electrical transport phenomena prevailing in undoped nc-Si/a-SiN <sub>x</sub> :H thin films prepared by inductively coupled plasma chemical vapor deposition. Journal of Applied Physics, 2013, 114, .	1.1	50
31	Tunable photoluminescence from nc-Si/a-SiN <sub>x</sub> :H quantum dot thin films prepared by ICP-CVD. Physical Chemistry Chemical Physics, 2013, 15, 3881.	1.3	45
32	Development of nc-Si/a-SiN <sub>x</sub> :H Thin Films for Photovoltaic and Light-Emitting Applications. Science of Advanced Materials, 2013, 5, 188-198.	0.1	28
33	Low temperature plasma synthesis of photoluminescent nanocrystalline silicon-nitride. , 2012, , .		0