Amit Agrawal

List of Publications by Year
in descending order

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38	2,407	331259 21	476904 29
papers	citations	h-index	g-index

38	38	38	2539
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Optics of photonic quasicrystals. Nature Photonics, 2013, 7, 177-187.	15.6	358
2	Transmission resonances through aperiodic arrays of subwavelength apertures. Nature, 2007, 446, 517-521.	13.7	273
3	High-contrast and fast electrochromic switching enabled by plasmonics. Nature Communications, 2016, 7, 10479.	5.8	226
4	Photonic Spin-Multiplexing Metasurface for Switchable Spiral Phase Contrast Imaging. Nano Letters, 2020, 20, 2791-2798.	4.5	180
5	Multifunctional metasurfaces enabled by simultaneous and independent control of phase and amplitude for orthogonal polarization states. Light: Science and Applications, 2021, 10, 107.	7.7	167
6	Low-loss metasurface optics down to the deep ultraviolet region. Light: Science and Applications, 2020, 9, 55.	7.7	150
7	Ultrafast optical pulse shaping using dielectric metasurfaces. Science, 2019, 364, 890-894.	6.0	143
8	Independent Amplitude Control of Arbitrary Orthogonal States of Polarization via Dielectric Metasurfaces. Physical Review Letters, 2020, 125, 267402.	2.9	131
9	Broadband generation of perfect PoincarÃ© beams via dielectric spin-multiplexed metasurface. Nature Communications, 2021, 12, 2230.	5.8	119
10	Broadband Generation of Photonic Spin-Controlled Arbitrary Accelerating Light Beams in the Visible. Nano Letters, 2019, 19, 1158-1165.	4.5	94
11	Surface plasmon polariton laser based on a metallic trench Fabry-Perot resonator. Science Advances, 2017, 3, e1700909.	4.7	70
12	Trilobite-inspired neural nanophotonic light-field camera with extreme depth-of-field. Nature Communications, 2022, 13, 2130.	5.8	62
13	Generation of Perfect Vortex Beams by Dielectric Geometric Metasurface for Visible Light. Laser and Photonics Reviews, 2021, 15, 2100390.	4.4	61
14	Photorealistic full-color nanopainting enabled by a low-loss metasurface. Optica, 2020, 7, 1171.	4.8	57
15	Recent advances in ultraviolet nanophotonics: from plasmonics and metamaterials to metasurfaces. Nanophotonics, 2021, 10, 2283-2308.	2.9	47
16	Magneto-optical trapping using planar optics. New Journal of Physics, 2021, 23, 013021.	1.2	37
17	Plasmonic Electronic Raman Scattering as Internal Standard for Spatial and Temporal Calibration in Quantitative Surface-Enhanced Raman Spectroscopy. Journal of Physical Chemistry Letters, 2020, 11, 9543-9551.	2.1	35
18	Endothermic reaction at room temperature enabled by deep-ultraviolet plasmons. Nature Materials, 2021, 20, 346-352.	13.3	31

#	Article	IF	Citations
19	High-brightness lasing at submicrometer enabled by droop-free fin light-emitting diodes (LEDs). Science Advances, 2020, 6, eaba4346.	4.7	30
20	Aperiodic nanoplasmonic devices for directional colour filtering and sensing. Nature Communications, 2017, 8, 1347.	5.8	24
21	Compact Stereo Waveguide Display Based on a Unidirectional Polarization-Multiplexed Metagrating In-Coupler. ACS Photonics, 2021, 8, 1112-1119.	3.2	22
22	Microscopic origin of the chiroptical response of optical media. Science Advances, 2019, 5, eaav8262.	4.7	17
23	Scalable microresonators for room-temperature detection of electron spin resonance from dilute, sub-nanoliter volume solids. Science Advances, 2020, 6, .	4.7	17
24	Fullâ€Stokes Polarimetry for Visible Light Enabled by an Allâ€Dielectric Metasurface. Advanced Photonics Research, 2022, 3, .	1.7	17
25	Au/SiO₂-Nanolaminated Plasmonic Nanoantennas as Refractive-Index-Insensitive and Transparent Surface-Enhanced Raman Spectroscopy Substrates. ACS Applied Nano Materials, 2021, 4, 3175-3184.	2.4	15
26	Ultra-compact visible light depolarizer based on dielectric metasurface. Applied Physics Letters, 2020, 116, 0511031-511035.	1.5	9
27	Chip-Scale Droop-Free Fin Light-Emitting Diodes Using Facet-Selective Contacts. ACS Applied Materials & Interfaces, 2021, 13, 44663-44672.	4.0	9
28	Nonlinear rotation of spin-orbit coupled states in hollow ring-core fibers. Optics Express, 2022, 30, 18481.	1.7	3
29	Chiroptical Response of Aluminum Nanocrescents at Ultraviolet Wavelengths. Nano Letters, 2020, 20, 3656-3662.	4.5	2
30	ZnO Fin Optical Cavities. Journal of Physical Chemistry C, 0, , .	1.5	1
31	Arbitrary Control of Femtosecond Timescale Complex Electrical-field Transients. , 2021, , .		0
32	Excitonic emission dynamics at cryogenic- and above room temperature in high brightness sub-micron fin LED and Lasers. , 2021, , .		0
33	Towards Arbitrary Spatiotemporal Pulse Shaping. , 2021, , .		0
34	Nanopainting with Light. Optics and Photonics News, 2020, 31, 42.	0.4	0
35	Ultrafast Polarization Twisting using Chip-scale Metasurfaces. , 2020, , .		0
36	Twisting Polarization of Ultrafast Pulses using Metasurfaces. , 2020, , .		0

#	Article	IF	Citations
37	Vectorial Shaping of Ultrafast Pulses using Dielectric Metasurfaces. , 2020, , .		0
38	Interfacing Photonics to Free-Space via Large-area Inverse-designed Diffraction Elements and Metasurfaces. , 2021, , .		0