

Amit Agrawal

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

2,407
citations

331670

21
h-index

477307

29
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38
all docs

38
docs citations

38
times ranked

2539
citing authors

#	ARTICLE	IF	CITATIONS
1	Full- ϵ Stokes Polarimetry for Visible Light Enabled by an All-dielectric Metasurface. Advanced Photonics Research, 2022, 3, .	3.6	17
2	Trilobite-inspired neural nanophotonic light-field camera with extreme depth-of-field. Nature Communications, 2022, 13, 2130.	12.8	62
3	Nonlinear rotation of spin-orbit coupled states in hollow ring-core fibers. Optics Express, 2022, 30, 18481.	3.4	3
4	Endothermic reaction at room temperature enabled by deep-ultraviolet plasmons. Nature Materials, 2021, 20, 346-352.	27.5	31
5	Arbitrary Control of Femtosecond Timescale Complex Electrical-field Transients. , 2021, , .		0
6	Compact Stereo Waveguide Display Based on a Unidirectional Polarization-Multiplexed Metagrating In-Coupler. ACS Photonics, 2021, 8, 1112-1119.	6.6	22
7	Au/SiO ₂ -Nanolaminated Plasmonic Nanoantennas as Refractive-Index-Insensitive and Transparent Surface-Enhanced Raman Spectroscopy Substrates. ACS Applied Nano Materials, 2021, 4, 3175-3184.	5.0	15
8	Broadband generation of perfect Poincaré beams via dielectric spin-multiplexed metasurface. Nature Communications, 2021, 12, 2230.	12.8	119
9	Recent advances in ultraviolet nanophotonics: from plasmonics and metamaterials to metasurfaces. Nanophotonics, 2021, 10, 2283-2308.	6.0	47
10	Multifunctional metasurfaces enabled by simultaneous and independent control of phase and amplitude for orthogonal polarization states. Light: Science and Applications, 2021, 10, 107.	16.6	167
11	Excitonic emission dynamics at cryogenic- and above room temperature in high brightness sub-micron fin LED and Lasers. , 2021, , .		0
12	Chip-Scale Droop-Free Fin Light-Emitting Diodes Using Facet-Selective Contacts. ACS Applied Materials & Interfaces, 2021, 13, 44663-44672.	8.0	9
13	Magneto-optical trapping using planar optics. New Journal of Physics, 2021, 23, 013021.	2.9	37
14	Towards Arbitrary Spatiotemporal Pulse Shaping. , 2021, , .		0
15	Generation of Perfect Vortex Beams by Dielectric Geometric Metasurface for Visible Light. Laser and Photonics Reviews, 2021, 15, 2100390.	8.7	61
16	Interfacing Photonics to Free-Space via Large-area Inverse-designed Diffraction Elements and Metasurfaces. , 2021, , .		0
17	High-brightness lasing at submicrometer enabled by droop-free fin light-emitting diodes (LEDs). Science Advances, 2020, 6, eaba4346.	10.3	30
18	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.	4.6	35

#	ARTICLE	IF	CITATIONS
19	Scalable microresonators for room-temperature detection of electron spin resonance from dilute, sub-nanoliter volume solids. Science Advances, 2020, 6, .	10.3	17
20	Photonic Spin-Multiplexing Metasurface for Switchable Spiral Phase Contrast Imaging. Nano Letters, 2020, 20, 2791-2798.	9.1	180
21	Ultra-compact visible light depolarizer based on dielectric metasurface. Applied Physics Letters, 2020, 116, 0511031-511035.	3.3	9
22	Low-loss metasurface optics down to the deep ultraviolet region. Light: Science and Applications, 2020, 9, 55.	16.6	150
23	Chiroptical Response of Aluminum Nanocrescents at Ultraviolet Wavelengths. Nano Letters, 2020, 20, 3656-3662.	9.1	2
24	Independent Amplitude Control of Arbitrary Orthogonal States of Polarization via Dielectric Metasurfaces. Physical Review Letters, 2020, 125, 267402.	7.8	131
25	Photorealistic full-color nanopainting enabled by a low-loss metasurface. Optica, 2020, 7, 1171.	9.3	57
26	Nanopainting with Light. Optics and Photonics News, 2020, 31, 42.	0.5	0
27	Ultrafast Polarization Twisting using Chip-scale Metasurfaces. , 2020, , .		0
28	Twisting Polarization of Ultrafast Pulses using Metasurfaces. , 2020, , .		0
29	Vectorial Shaping of Ultrafast Pulses using Dielectric Metasurfaces. , 2020, , .		0
30	Ultrafast optical pulse shaping using dielectric metasurfaces. Science, 2019, 364, 890-894.	12.6	143
31	Microscopic origin of the chiroptical response of optical media. Science Advances, 2019, 5, eaav8262.	10.3	17
32	Broadband Generation of Photonic Spin-Controlled Arbitrary Accelerating Light Beams in the Visible. Nano Letters, 2019, 19, 1158-1165.	9.1	94
33	Surface plasmon polariton laser based on a metallic trench Fabry-Perot resonator. Science Advances, 2017, 3, e1700909.	10.3	70
34	Aperiodic nanoplasmonic devices for directional colour filtering and sensing. Nature Communications, 2017, 8, 1347.	12.8	24
35	High-contrast and fast electrochromic switching enabled by plasmonics. Nature Communications, 2016, 7, 10479.	12.8	226
36	Optics of photonic quasicrystals. Nature Photonics, 2013, 7, 177-187.	31.4	358

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37	Transmission resonances through aperiodic arrays of subwavelength apertures. Nature, 2007, 446, 517-521.	27.8	273
38	ZnO Fin Optical Cavities. Journal of Physical Chemistry C, 0, , .	3.1	1