

Alexander Yulaev

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

485
citations

759233

12
h-index

940533

16
g-index

25
all docs

25
docs citations

25
times ranked

746
citing authors

#	ARTICLE	IF	CITATIONS
1	Exceptional points in lossy media lead to deep polynomial wave penetration with spatially uniform power loss. <i>Nature Nanotechnology</i> , 2022, 17, 583-589.	31.5	12
2	Meta-grating outcouplers for optimized beam shaping in the visible. <i>Optics Express</i> , 2021, 29, 14789.	3.4	13
3	Magneto-optical trapping using planar optics. <i>New Journal of Physics</i> , 2021, 23, 013021.	2.9	37
4	Multi-Beam Integration for On-chip Quantum Devices. , 2021, , .		0
5	Interfacing Photonics to Free-Space via Large-area Inverse-designed Diffraction Elements and Metasurfaces. , 2021, , .		0
6	Probing Electrified Liquid-Solid Interfaces with Scanning Electron Microscopy. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 56650-56657.	8.0	3
7	Nanoscale Mapping of the Double Layer Potential at the Graphene-Electrolyte Interface. <i>Nano Letters</i> , 2020, 20, 1336-1344.	9.1	25
8	Projecting a Wide Surface-Normal Gaussian Beam from an Apodised Grating Supporting Spatially-Broad Standing Wave Resonances. , 2020, , .		0
9	Slow-Light Standing Wave Resonances in an Inverse-Designed Grating for Wide Surface-Normal Free-Space Beam Projection. , 2020, , .		0
10	Metasurface-Integrated Photonic Platform for Versatile Free-Space Beam Projection with Polarization Control. <i>ACS Photonics</i> , 2019, 6, 2902-2909.	6.6	49
11	From Microparticles to Nanowires and Back: Radical Transformations in Plated Li Metal Morphology Revealed via <i>in Situ</i> Scanning Electron Microscopy. <i>Nano Letters</i> , 2018, 18, 1644-1650.	9.1	47
12	Collimating a Free-Space Gaussian Beam by Means of a Chip-Scale Photonic Extreme Mode Converter. , 2018, , .		5
13	In Aqua Electrochemistry Probed by XPEEM: Experimental Setup, Examples, and Challenges. <i>Topics in Catalysis</i> , 2018, 61, 2195-2206.	2.8	14
14	Photonic waveguide to free-space Gaussian beam extreme mode converter. <i>Light: Science and Applications</i> , 2018, 7, 72.	16.6	66
15	Enabling Photoemission Electron Microscopy in Liquids via Graphene-Capped Microchannel Arrays. <i>Nano Letters</i> , 2017, 17, 1034-1041.	9.1	46
16	Encapsulated Object Analysis: Imaging and Analysis of Encapsulated Objects through Self-Assembled Electron and Optically Transparent Graphene Oxide Membranes (<i>Adv. Mater. Interfaces</i> 2/2017). <i>Advanced Materials Interfaces</i> , 2017, 4, .	3.7	0
17	Graphene Microcapsule Arrays for Combinatorial Electron Microscopy and Spectroscopy in Liquids. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 26492-26502.	8.0	29
18	Imaging and Analysis of Encapsulated Objects through Self-Assembled Electron and Optically Transparent Graphene Oxide Membranes. <i>Advanced Materials Interfaces</i> , 2017, 4, 1600734.	3.7	8

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19	SEM and Auger Electron Spectroscopy of Liquid Water through Graphene Membrane. <i>Microscopy and Microanalysis</i> , 2017, 23, 880-881.	0.4	0
20	Interfacial Electrochemistry in Liquids Probed with Photoemission Electron Microscopy. <i>Journal of the American Chemical Society</i> , 2017, 139, 18138-18141.	13.7	28
21	Toward clean suspended CVD graphene. <i>RSC Advances</i> , 2016, 6, 83954-83962.	3.6	22
22	Li Diffusion in All-Solid-State Batteries Imaged Through Optical and Electron Transparent Electrodes. <i>Microscopy and Microanalysis</i> , 2016, 22, 1352-1353.	0.4	0
23	Photoelectron spectroscopy of wet and gaseous samples through graphene membranes. <i>Nanoscale</i> , 2014, 6, 14394-14403.	5.6	78
24	Immobilization and Encapsulation of Micro- and Nano- Objects with Electron Transparent Graphene Oxide membranes. <i>Microscopy and Microanalysis</i> , 2014, 20, 1798-1799.	0.4	3
25	Surface-Normal Free-Space Beam Projection via Slow-Light Standing-Wave Resonance Photonic Gratings. <i>ACS Photonics</i> , 0, , .	6.6	0