Alexander Yulaev

List of Publications by Year in descending order

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	Photoelectron spectroscopy of wet and gaseous samples through graphene membranes. Nanoscale, 2014, 6, 14394-14403.	5.6	78
2	Photonic waveguide to free-space Gaussian beam extreme mode converter. Light: Science and Applications, 2018, 7, 72.	16.6	66
3	Metasurface-Integrated Photonic Platform for Versatile Free-Space Beam Projection with Polarization Control. ACS Photonics, 2019, 6, 2902-2909.	6.6	49
4	From Microparticles to Nanowires and Back: Radical Transformations in Plated Li Metal Morphology Revealed via in Situ Scanning Electron Microscopy. Nano Letters, 2018, 18, 1644-1650.	9.1	47
5	Enabling Photoemission Electron Microscopy in Liquids via Graphene-Capped Microchannel Arrays. Nano Letters, 2017, 17, 1034-1041.	9.1	46
6	Magneto-optical trapping using planar optics. New Journal of Physics, 2021, 23, 013021.	2.9	37
7	Graphene Microcapsule Arrays for Combinatorial Electron Microscopy and Spectroscopy in Liquids. ACS Applied Materials & Interfaces, 2017, 9, 26492-26502.	8.0	29
8	Interfacial Electrochemistry in Liquids Probed with Photoemission Electron Microscopy. Journal of the American Chemical Society, 2017, 139, 18138-18141.	13.7	28
9	Nanoscale Mapping of the Double Layer Potential at the Grapheneâ€“Electrolyte Interface. Nano Letters, 2020, 20, 1336-1344.	9.1	25
10	Toward clean suspended CVD graphene. RSC Advances, 2016, 6, 83954-83962.	3.6	22
11	In Aqua Electrochemistry Probed by XPEEM: Experimental Setup, Examples, and Challenges. Topics in Catalysis, 2018, 61, 2195-2206.	2.8	14
12	Meta-grating outcouplers for optimized beam shaping in the visible. Optics Express, 2021, 29, 14789.	3.4	13
13	Exceptional points in lossy media lead to deep polynomial wave penetration with spatially uniform power loss. Nature Nanotechnology, 2022, 17, 583-589.	31.5	12
14	Imaging and Analysis of Encapsulated Objects through Selfâ€Assembled Electron and Optically Transparent Graphene Oxide Membranes. Advanced Materials Interfaces, 2017, 4, 1600734.	3.7	8
15	Collimating a Free-Space Gaussian Beam by Means of a Chip-Scale Photonic Extreme Mode Converter. , 2018, , .		5
16	Immobilization and Encapsulation of Micro- and Nano- Objects with Electron Transparent Graphene Oxide membranes. Microscopy and Microanalysis, 2014, 20, 1798-1799.	0.4	3
17	Probing Electrified Liquidâ€“Solid Interfaces with Scanning Electron Microscopy. ACS Applied Materials & Interfaces, 2020, 12, 56650-56657.	8.0	3
18	Li Diffusion in All-Solid-State Batteries Imaged Through Optical and Electron Transparent Electrodes. Microscopy and Microanalysis, 2016, 22, 1352-1353.	0.4	0

#	Article	IF	Citations
19	Encapsulated Object Analysis: Imaging and Analysis of Encapsulated Objects through Selfâ€Assembled Electron and Optically Transparent Graphene Oxide Membranes (Adv. Mater. Interfaces 2/2017). Advanced Materials Interfaces, 2017, 4, .	3.7	0
20	SEM and Auger Electron Spectroscopy of Liquid Water through Graphene Membrane. Microscopy and Microanalysis, 2017, 23, 880-881.	0.4	0
21	Multi-Beam Integration for On-chip Quantum Devices. , 2021, , .		0
22	Projecting a Wide Surface-Normal Gaussian Beam from an Apodised Grating Supporting Spatially-Broad Standing Wave Resonances. , 2020, , .		0
23	Slow-Light Standing Wave Resonances in an Inverse-Designed Grating for Wide Surface-Normal Free-Space Beam Projection. , 2020, , .		0
24	Interfacing Photonics to Free-Space via Large-area Inverse-designed Diffraction Elements and Metasurfaces. , 2021, , .		0
25	Surface-Normal Free-Space Beam Projection via Slow-Light Standing-Wave Resonance Photonic Gratings. ACS Photonics, 0, , .	6.6	0