

Mikhail Y Shalaginov

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

2,507
citations

279798

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361022

35
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all docs

55
docs citations

55
times ranked

2367
citing authors

#	ARTICLE	IF	CITATIONS
1	Broadband transparent optical phase change materials for high-performance nonvolatile photonics. <i>Nature Communications</i> , 2019, 10, 4279.	12.8	349
2	Electrically reconfigurable non-volatile metasurface using low-loss optical phase-change material. <i>Nature Nanotechnology</i> , 2021, 16, 661-666.	31.5	298
3	Reconfigurable all-dielectric metalens with diffraction-limited performance. <i>Nature Communications</i> , 2021, 12, 1225.	12.8	221
4	A Deep Learning Approach for Objective-Driven All-Dielectric Metasurface Design. <i>ACS Photonics</i> , 2019, 6, 3196-3207.	6.6	212
5	Ultra-thin high-efficiency mid-infrared transmissive Huygens meta-optics. <i>Nature Communications</i> , 2018, 9, 1481.	12.8	126
6	Ultrabright Room-Temperature Sub-Nanosecond Emission from Single Nitrogen-Vacancy Centers Coupled to Nanopatch Antennas. <i>Nano Letters</i> , 2018, 18, 4837-4844.	9.1	121
7	Single-Element Diffraction-Limited Fisheye Metalens. <i>Nano Letters</i> , 2020, 20, 7429-7437.	9.1	104
8	Enhancement of single-photon emission from nitrogen-vacancy centers with TiN/(Al,Sc)N hyperbolic metamaterial. <i>Laser and Photonics Reviews</i> , 2015, 9, 120-127.	8.7	93
9	Design for quality: reconfigurable flat optics based on active metasurfaces. <i>Nanophotonics</i> , 2020, 9, 3505-3534.	6.0	87
10	Multifunctional Metasurface Design with a Generative Adversarial Network. <i>Advanced Optical Materials</i> , 2021, 9, 2001433.	7.3	78
11	Myths and truths about optical phase change materials: A perspective. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	76
12	Multi-Level Electro-Thermal Switching of Optical Phase-Change Materials Using Graphene. <i>Advanced Photonics Research</i> , 2021, 2, 2000034.	3.6	75
13	Deep learning modeling approach for metasurfaces with high degrees of freedom. <i>Optics Express</i> , 2020, 28, 31932.	3.4	73
14	Hybrid Plasmonic Bullseye Antennas for Efficient Photon Collection. <i>ACS Photonics</i> , 2018, 5, 692-698.	6.6	59
15	Finite-width plasmonic waveguides with hyperbolic multilayer cladding. <i>Optics Express</i> , 2015, 23, 9681.	3.4	58
16	Plasmonic waveguides clad by hyperbolic metamaterials. <i>Optics Letters</i> , 2014, 39, 4663.	3.3	56
17	First-Principles Calculations of Structural, Elastic, Electronic, and Optical Properties of Perovskite-type KMgH_3 Crystals: Novel Hydrogen Storage Material. <i>Journal of Physical Chemistry B</i> , 2011, 115, 2836-2841.	2.6	52
18	Lasing Action with Gold Nanorod Hyperbolic Metamaterials. <i>ACS Photonics</i> , 2017, 4, 674-680.	6.6	49

#	ARTICLE	IF	CITATIONS
19	Long-range plasmonic waveguides with hyperbolic cladding. <i>Optics Express</i> , 2015, 23, 31109.	3.4	48
20	Ge ₂ Sb ₂ Se ₅ Glass as High-capacity Promising Lithium-ion Battery Anode. <i>Nano Energy</i> , 2020, 68, 104326.	16.0	38
21	Broadband enhancement of on-chip single-photon extraction via tilted hyperbolic metamaterials. <i>Applied Physics Reviews</i> , 2020, 7, 021403.	11.3	36
22	Deep Convolutional Neural Networks to Predict Mutual Coupling Effects in Metasurfaces. <i>Advanced Optical Materials</i> , 2022, 10, 2102113.	7.3	28
23	Nonlinear Mid-Infrared Metasurface based on a Phase-Change Material. <i>Laser and Photonics Reviews</i> , 2021, 15, 2000373.	8.7	25
24	Transient Tap Couplers for Wafer-Level Photonic Testing Based on Optical Phase Change Materials. <i>ACS Photonics</i> , 2021, 8, 1903-1908.	6.6	24
25	Design of broadband and wide field-of-view metalenses. <i>Optics Letters</i> , 2021, 46, 5735-5738.	3.3	18
26	Reconfigurable Parfocal Zoom Metalens. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	18
27	Superconducting detector for visible and near-infrared quantum emitters [Invited]. <i>Optical Materials Express</i> , 2017, 7, 513.	3.0	17
28	Understanding aging in chalcogenide glass thin films using precision resonant cavity refractometry. <i>Optical Materials Express</i> , 2019, 9, 2252.	3.0	12
29	On-Chip Single-Layer Integration of Diamond Spins with Microwave and Plasmonic Channels. <i>ACS Photonics</i> , 2020, 7, 2018-2026.	6.6	9
30	Enhanced laser action from smart fabrics made with rollable hyperbolic metamaterials. <i>Npj Flexible Electronics</i> , 2020, 4, .	10.7	8
31	Large-area optical metasurface fabrication using nanostencil lithography. <i>Optics Letters</i> , 2021, 46, 2324.	3.3	8
32	All-dielectric Metasurface Designs Enabled by Deep Neural Networks. , 2020, , .		7
33	Electrically-switchable foundry-processed phase change photonic devices. , 2021, , .		5
34	A Transferrable, Adaptable, Free-Standing, and Water-Resistant Hyperbolic Metamaterial. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 49224-49231.	8.0	3
35	Single-layer Planar Metasurface Lens with $>170^\circ$ Field of View. , 2019, , .		3
36	Reshaping light: reconfigurable photonics enabled by broadband low-loss optical phase change materials. , 2019, , .		3

#	ARTICLE	IF	CITATIONS
37	Multifunctional Metasurface Design with a Generative Adversarial Network (Advanced Optical) Tj ETQq1 1 0.784314 rgBT /Overlock 10	7.3	1
38	A Deep Learning Approach to Explore the Mutual Coupling Effects in Metasurfaces. , 2021, , .		1
39	Wide Field-of-view Achromatic Metalenses. , 2021, , .		1
40	Dielectric spectroscopic investigation of reversible photo-induced changes in amorphous Ge ₂ Sb ₂ Se ₅ thin films. Journal of Applied Physics, 2022, 131, 075102.	2.5	1
41	Single-photon source based on NV center in nanodiamond coupled to TiN-based hyperbolic metamaterial. , 2014, , .		0
42	Multilayer Cladding with Hyperbolic Dispersion for Plasmonic Waveguides. , 2015, , .		0
43	Effect of photonic density of states on spin-flip induced fluorescence contrast in diamond nitrogen-vacancy center ensembles (Presentation Recording). Proceedings of SPIE, 2015, , .	0.8	0
44	Nitrogen-vacancy single-photon emission enhanced with nanophotonic structures (Presentation) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4		0
45	Effect of a hyperbolic metamaterial on radiation patterns of a single-photon source. , 2015, , .		0
46	Subwavelength optics with hyperbolic metamaterials: Waveguides, scattering, and optical topological transitions. , 2016, , .		0
47	Enhanced Multi-Photon Emission from Single NV Center Coupled to Graphene by Laser-Shaping. , 2015, , .		0
48	Massive Parallel Positioning of Nanodiamonds on Nanophotonic Structures. , 2017, , .		0
49	Phase change reconfigurable nanophotonics on a foundry-processed SOI platform. , 2021, , .		0
50	Ge ₂ Sb ₂ Se ₄ Te ₁ Metasurface for Enhancing Third-Harmonic Generation in the Mid-Infrared. , 2021, , .		0
51	Electrically Reconfigurable Nonvolatile Metasurface based on Phase Change Materials. , 2021, , .		0
52	Understanding wide field-of-view metalenses. , 2022, , .		0
53	Phase change materials: the 'silicon' for analog photonic computing?. , 2022, , .		0