

Sajjad Abdollahramezani

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

2,047
citations

394286

19
h-index

552653

26
g-index

50
all docs

50
docs citations

50
times ranked

1720
citing authors

#	ARTICLE	IF	CITATIONS
1	Tunable nanophotonics enabled by chalcogenide phase-change materials. <i>Nanophotonics</i> , 2020, 9, 1189-1241.	2.9	294
2	Deep learning approach based on dimensionality reduction for designing electromagnetic nanostructures. <i>Npj Computational Materials</i> , 2020, 6, .	3.5	139
3	Statistical Studies of Fading in Underwater Wireless Optical Channels in the Presence of Air Bubble, Temperature, and Salinity Random Variations. <i>IEEE Transactions on Communications</i> , 2018, , 1-1.	4.9	133
4	Analog computing using graphene-based metalines. <i>Optics Letters</i> , 2015, 40, 5239.	1.7	130
5	Electrically driven reprogrammable phase-change metasurface reaching 80% efficiency. <i>Nature Communications</i> , 2022, 13, 1696.	5.8	125
6	Analog optical computing based on a dielectric meta-reflect array. <i>Optics Letters</i> , 2016, 41, 3451.	1.7	121
7	Analog computing by Brewster effect. <i>Optics Letters</i> , 2016, 41, 3467.	1.7	120
8	Polarization Insensitive and Broadband Terahertz Absorber Using Graphene Disks. <i>Plasmonics</i> , 2017, 12, 393-398.	1.8	105
9	Dielectric metasurfaces solve differential and integro-differential equations. <i>Optics Letters</i> , 2017, 42, 1197.	1.7	91
10	Full color generation with Fano-type resonant HfO_2 nanopillars designed by a deep-learning approach. <i>Nanoscale</i> , 2019, 11, 21266-21274.	2.8	89
11	Meta-optics for spatial optical analog computing. <i>Nanophotonics</i> , 2020, 9, 4075-4095.	2.9	86
12	Dynamic Hybrid Metasurfaces. <i>Nano Letters</i> , 2021, 21, 1238-1245.	4.5	85
13	Deep Learning Reveals Underlying Physics of Light-Matter Interactions in Nanophotonic Devices. <i>Advanced Theory and Simulations</i> , 2019, 2, 1900088.	1.3	77
14	Knowledge Discovery in Nanophotonics Using Geometric Deep Learning. <i>Advanced Intelligent Systems</i> , 2020, 2, 1900132.	3.3	76
15	Beam manipulating by gate-tunable graphene-based metasurfaces. <i>Optics Letters</i> , 2015, 40, 5383.	1.7	74
16	ITO-based microheaters for reversible multi-stage switching of phase-change materials: towards miniaturized beyond-binary reconfigurable integrated photonics. <i>Optics Express</i> , 2021, 29, 20449.	1.7	62
17	Statistical distribution of intensity fluctuations for underwater wireless optical channels in the presence of air bubbles. , 2016, , .		60
18	Design of mid-infrared ultra-wideband metallic absorber based on circuit theory. <i>Optics Communications</i> , 2016, 381, 309-313.	1.0	29

#	ARTICLE	IF	CITATIONS
19	Broadband, Polarization-Insensitive, and Wide-Angle Optical Absorber Based on Fractal Plasmonics. IEEE Photonics Technology Letters, 2016, 28, 2545-2548.	1.3	27
20	Synthetic Engineering of Morphology and Electronic Band Gap in Lateral Heterostructures of Monolayer Transition Metal Dichalcogenides. ACS Nano, 2020, 14, 6323-6330.	7.3	24
21	Visible light for communication, indoor positioning, and dimmable illumination: A system design based on overlapping pulse position modulation. Optik, 2017, 151, 110-122.	1.4	20
22	Dynamically tunable second-harmonic generation using hybrid nanostructures incorporating phase-change chalcogenides. Nanophotonics, 2022, 11, 2727-2735.	2.9	13
23	Designing a dimmable OPPM-based VLC system under channel constraints. , 2016, , .		11
24	Circuit Model for Plasmons on Graphene With One-Dimensional Conductivity Profile. IEEE Photonics Technology Letters, 2016, 28, 355-358.	1.3	11
25	Extending chip-based Kerr-comb to visible spectrum by dispersive wave engineering. Optics Express, 2017, 25, 22362.	1.7	10
26	Dynamically tunable third-harmonic generation with all-dielectric metasurfaces incorporating phase-change chalcogenides. Optics Letters, 2021, 46, 5296.	1.7	10
27	An Efficient High Power RF Dummy-Load. IEEE Microwave and Wireless Components Letters, 2015, 25, 409-411.	2.0	5
28	Broadband-Tunable Third-Harmonic Generation Using Phase-Change Chalcogenides. Advanced Photonics Research, 2022, 3, .	1.7	5
29	Mitigating inverse design complexity of nano-antennas using a novel dimensionality reduction approach (Conference Presentation). , 2019, , .		3
30	Beam focusing using two-dimensional graphene-based meta-reflect-array. , 2016, , .		2
31	Dynamic Dielectric Metasurfaces Incorporating Phase-Change Material. , 2018, , .		2
32	Beam manipulating by graphene-based metasurface transmit-array. , 2015, , .		1
33	Broadband-Tunable Third-Harmonic Generation Using Phase-Change Chalcogenides. , 2021, , .		1
34	Dimensionality Reduction Based Method for Design and Optimization of Optical Nanostructures Using Neural Network. , 2019, , .		1
35	Structural Colors by Fano-resonances Supported in All-dielectric Metasurfaces Made of HfO ₂ . , 2019, , .		1
36	Nanophotonics Design Platform Based on Double-step Dimensionality Reduction. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
37	Geometric Deep Learning Unlocks the Underlying Physics of Nanostructures. , 2020, , .		1
38	Inverse Design of Nanophotonic Structures Using a Hybrid Dimensionality Reduction Technique. , 2020, , .		1
39	Cracking the Design Complexity of Nanostructures Using Geometric Deep Learning. , 2020, , .		1
40	Mining DNA sequences based on spatially coded technique using spatial light modulator. , 2016, , .		0
41	Nonvolatile Tunable Integrated Mid-Infrared GST-SiC Metasurfaces. , 2018, , .		0
42	Phase-Change Material Micro-Displays. , 2021, , .		0
43	Reconfigurable near-infrared metasurfaces using phase-change materials. , 2021, , .		0
44	Dynamically tunable hybrid plasmonic-dielectric metasurfaces. , 2021, , .		0
45	Electrically tunable phase-change metasurfaces using transparent conductive oxide microheaters. , 2021, , .		0
46	Electrically programmable phased-array antenna using phase-change materials. , 2020, , .		0
47	Programmable metasurfaces employing phase-change-dielectric materials architecture. , 2020, , .		0
48	Mixed Eletro-optic Metasurface with a Hybrid Plasmonic-phase-change Material Architecture. , 2020, , .		0
49	Fano Resonant All-dielectric HfO2 Metasurfaces for Full Color Generation Designed by Deep Learning. , 2020, , .		0
50	Tunable Polarization-independent Absorber Using a Hybrid Plasmonic and Phase-change Chalcogenide Platform. , 2020, , .		0