

Ali Adibi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

63
papers

1,184
citations

17
h-index

33
g-index

132
ext. papers

1,646
ext. citations

5.4
avg, IF

4.99
L-index

#	Paper	IF	Citations
63	Electrically driven reprogrammable phase-change metasurface reaching 80% efficiency.. <i>Nature Communications</i> , 2022 , 13, 1696	17.4	21
62	COVID-19 pneumonia chest radiographic severity score: Variability assessment among experienced and In-training radiologists and creation of a Multi-reader composite score database for artificial intelligence algorithm development.. <i>British Journal of Radiology</i> , 2022 , 20211028	3.4	
61	Toward understanding COVID-19 pneumonia: a deep-learning-based approach for severity analysis and monitoring the disease. <i>Scientific Reports</i> , 2021 , 11, 11112	4.9	7
60	Inverse design of photonic nanostructures using dimensionality reduction: reducing the computational complexity. <i>Optics Letters</i> , 2021 , 46, 2634-2637	3	4
59	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, 20449-20462	3.3	15
58	Dynamic Hybrid Metasurfaces. <i>Nano Letters</i> , 2021 , 21, 1238-1245	11.5	33
57	Dynamically tunable third-harmonic generation with all-dielectric metasurfaces incorporating phase-change chalcogenides. <i>Optics Letters</i> , 2021 , 46, 5296-5299	3	0
56	Improved coupled-mode theory for high-index-contrast photonic platforms. <i>Physical Review A</i> , 2020 , 102,	2.6	1
55	Synthetic Engineering of Morphology and Electronic Band Gap in Lateral Heterostructures of Monolayer Transition Metal Dichalcogenides. <i>ACS Nano</i> , 2020 , 14, 6323-6330	16.7	14
54	Deep learning approach based on dimensionality reduction for designing electromagnetic nanostructures. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	79
53	Photocarrier-Induced Active Control of Second-Order Optical Nonlinearity in Monolayer MoS. <i>Small</i> , 2020 , 16, e1906347	11	16
52	Tunable nanophotonics enabled by chalcogenide phase-change materials. <i>Nanophotonics</i> , 2020 , 9, 1189-1241	6.241	134
51	Meta-optics for spatial optical analog computing. <i>Nanophotonics</i> , 2020 , 9, 4075-4095	6.3	30
50	Inverse Design of Nanophotonic Structures Using a Hybrid Dimensionality Reduction Technique 2020 ,		1
49	Cracking the Design Complexity of Nanostructures Using Geometric Deep Learning 2020 ,		1
48	Geometric Deep Learning Unlocks the Underlying Physics of Nanostructures 2020 ,		1
47	Knowledge Discovery in Nanophotonics Using Geometric Deep Learning. <i>Advanced Intelligent Systems</i> , 2020 , 2, 1900132	6	45

46	Fiber-Interconnect Silicon Chiplet Technology for Self-Aligned Fiber-to-Chip Assembly. <i>IEEE Photonics Technology Letters</i> , 2019 , 31, 1311-1314	2.2	0
45	Deep Learning Reveals Underlying Physics of Light-Matter Interactions in Nanophotonic Devices. <i>Advanced Theory and Simulations</i> , 2019 , 2, 1900088	3.5	44
44	Phase-matched nonlinear second-harmonic generation in plasmonic metasurfaces. <i>Nanophotonics</i> , 2019 , 8, 607-612	6.3	6
43	Full color generation with Fano-type resonant HfO nanopillars designed by a deep-learning approach. <i>Nanoscale</i> , 2019 , 11, 21266-21274	7.7	52
42	Hot-Electron-Assisted Femtosecond All-Optical Modulation in Plasmonics. <i>Advanced Materials</i> , 2018 , 30, 1704915	24	37
41	Strain relaxation via formation of cracks in compositionally modulated two-dimensional semiconductor alloys. <i>Npj 2D Materials and Applications</i> , 2018 , 2,	8.8	16
40	Ultrafast Control of Phase and Polarization of Light Expedited by Hot-Electron Transfer. <i>Nano Letters</i> , 2018 , 18, 5544-5551	11.5	37
39	Wideband bright-soliton frequency-comb generation at optical telecommunication wavelength in a thin silicon nitride film. <i>Journal of Nanophotonics</i> , 2018 , 12, 1	1.1	1
38	Sharp and Tunable Crystal/Fano-Type Resonances Enabled by Out-of-Plane Dipolar Coupling in Plasmonic Nanopatch Arrays. <i>Annalen Der Physik</i> , 2018 , 530, 1700395	2.6	7
37	Anatomy of Phase Locking in Hyperparametric Oscillations Based on Kerr Nonlinearity. <i>IEEE Photonics Journal</i> , 2017 , 9, 1-11	1.8	6
36	Lattice Plasmon Induced Large Enhancement of Excitonic Emission in Monolayer Metal Dichalcogenides. <i>Plasmonics</i> , 2017 , 12, 1975-1981	2.4	5
35	Self-synchronization phenomena in the Lugiato-Lefever equation. <i>Physical Review A</i> , 2017 , 96,	2.6	10
34	Nanoscale Optoregulation of Neural Stem Cell Differentiation by Intracellular Alteration of Redox Balance. <i>Advanced Functional Materials</i> , 2017 , 27, 1701420	15.6	13
33	Observation of stimulated Brillouin scattering in Si3N4 waveguides 2017 ,		1
32	Multiplexed detection of lectins using integrated glycan-coated microring resonators. <i>Biosensors and Bioelectronics</i> , 2016 , 80, 682-690	11.8	17
31	Integrated phononic crystal resonators based on adiabatically-terminated phononic crystal waveguides. <i>AIP Advances</i> , 2016 , 6, 121603	1.5	6
30	Closed-Form Relations for Resonance Detection Error Using Statistical Analysis of Amplitude Noise. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2015 , 21, 419-426	3.8	5
29	Soliton Formation in Whispering-Gallery-Mode Resonators via Input Phase Modulation. <i>IEEE Photonics Journal</i> , 2015 , 7, 1-9	1.8	36

28	Flexible MoS ₂ Field-Effect Transistors for Gate-Tunable Piezoresistive Strain Sensors. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 12850-5	9.5	98
27	Magnesiothermally Formed Porous Silicon Thin Films on Silicon-on-Insulator Optical Microresonators for High-Sensitivity Detection. <i>Advanced Optical Materials</i> , 2014 , 2, 235-239	8.1	9
26	Double-Layer Crystalline Silicon on Insulator Material Platform for Integrated Photonic Applications. <i>IEEE Photonics Journal</i> , 2014 , 6, 1-8	1.8	4
25	Hadamard multiplexed fluorescence tomography. <i>Biomedical Optics Express</i> , 2014 , 5, 763-77	3.5	4
24	High-Q resonators on double-layer SOI platform 2013 ,		1
23	Waveguide-Based Phononic Crystal Micro/Nanomechanical High-Q Resonators. <i>Journal of Microelectromechanical Systems</i> , 2012 , 21, 379-384	2.5	21
22	Systematically Designed PCW Bends With Very Large Bandwidth and High Transmission: An Experimental Demonstration. <i>IEEE Photonics Technology Letters</i> , 2012 , 24, 2250-2253	2.2	1
21	Low-Loss Microdisk-Based Delay Lines for Narrowband Optical Filters. <i>IEEE Photonics Technology Letters</i> , 2012 , 24, 1276-1278	2.2	10
20	On chip complex signal processing devices using coupled phononic crystal slab resonators and waveguides. <i>AIP Advances</i> , 2011 , 1, 041903	1.5	34
19	Instrument an Off-Shelf CCD Imaging Sensor Into a Handheld Multispectral Video Camera. <i>IEEE Photonics Technology Letters</i> , 2011 , 23, 606-608	2.2	4
18	Compact fluorescence sensor using on-chip silicon nitride microdisk 2011 ,		2
17	VHF phononic band gap band pass filters using coupled resonator acoustic waveguides (CRAW) 2011 ,		1
16	Tight Integration of Plasmonic Nanoresonators with On-chip Silicon Nitride Photonic Guided Wave Structures. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1294, 48901		
15	Support loss-free micro/nano-mechanical resonators using phononic crystal slab waveguides 2010 ,		5
14	Acoustic confinement and waveguiding with a line-defect structure in phononic crystal slabs. <i>Journal of Applied Physics</i> , 2010 , 108, 084515	2.5	37
13	A Temperature-Insensitive Third-Order Coupled-Resonator Filter for On-Chip Terabit/s Optical Interconnects. <i>IEEE Photonics Technology Letters</i> , 2010 , 22, 1768-1770	2.2	10
12	Systematic Design of Wide-Bandwidth Photonic Crystal Waveguide Bends With High Transmission and Low Dispersion. <i>Journal of Lightwave Technology</i> , 2010 , 28, 1707-1713	4	14
11	Comparison of Cascade, Lattice, and Parallel Filter Architectures. <i>Journal of Lightwave Technology</i> , 2010 ,	4	2

10	Resonator/waveguide coupling in phononic crystals for demultiplexing and filtering applications 2010,		3
9	Systematic Engineering of Waveguide-Resonator Coupling for Silicon Microring/Microdisk/Racetrack Resonators: Theory and Experiment. <i>IEEE Journal of Quantum Electronics</i> , 2010 , 46, 1158-1169	2	43
8	High quality factor microdisk resonators for chip-scale visible sensing 2008,		2
7	Evidence of large high frequency complete phononic band gaps in silicon phononic crystal plates. <i>Applied Physics Letters</i> , 2008 , 92, 221905	3.4	160
6	Optimized design of flat-band finite-size Coupled Resonator optical waveguides with reduced in-band distortions 2008,		1
5	Large simultaneous band gaps for photonic and phononic crystal slabs 2008,		2
4	On-chip Integration of Microfluidic Channels with Ultra-high Q Silicon Microdisk Resonators for Lab-on-a-Chip Sensing Applications. <i>Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS</i> , 2007,		2
3	GEN04-2: M-ary, Binary, and Space-Volume Multiplexing Trade-offs for Holographic Channels. <i>IEEE Global Telecommunications Conference (GLOBECOM)</i> , 2006,		2
2	Observation of large parity-change-induced dispersion in triangular-lattice photonic crystal waveguides using phase sensitive techniques. <i>Applied Physics Letters</i> , 2006 , 88, 071111	3.4	2
1	Manifold Learning for Knowledge Discovery and Intelligent Inverse Design of Photonic Nanostructures: Breaking the Geometric Complexity. <i>ACS Photonics</i> ,	6.3	4