

Ali Asghar Eftekhar

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2017989/publications.pdf>

Version: 2024-02-01

64
papers

1,041
citations

687220

13
h-index

580701

25
g-index

64
all docs

64
docs citations

64
times ranked

994
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrically driven reprogrammable phase-change metasurface reaching 80% efficiency. Nature Communications, 2022, 13, 1696.	5.8	125
2	Dynamic Hybrid Metasurfaces. Nano Letters, 2021, 21, 1238-1245.	4.5	85
3	High-Q Slot-Waveguide-Based Ring Resonator on a 3C-SiC-on-Insulator Platform for Ultrasensitive Sensing Applications. , 2021, , .		0
4	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
5	Phase-matched nonlinear second-harmonic generation in plasmonic metasurfaces. Nanophotonics, 2019, 8, 607-612.	2.9	10
6	Waveguiding Effect in the Gigahertz Frequency Range in Pillar-based Phononic-Crystal Slabs. Physical Review Applied, 2018, 9, .	1.5	28
7	Strain relaxation via formation of cracks in compositionally modulated two-dimensional semiconductor alloys. Npj 2D Materials and Applications, 2018, 2, .	3.9	23
8	Integrated Optomechanical Resonators in Double-Layer Crystalline Silicon Platforms. , 2018, , .		0
9	High-Q Microresonators at Near-Infrared/Near Visible Wavelengths on a 3C-SiC-on-Insulator (SiCOI) Platform. , 2018, , .		0
10	Nonvolatile Tunable Integrated Mid-Infrared GST-SiC Metasurfaces. , 2018, , .		0
11	Hypersonic Surface Phononic Bandgap Demonstration in a CMOS-Compatible Pillar-Based Piezoelectric Structure on Silicon. Physical Review Applied, 2018, 10, .	1.5	8
12	Sharp and Tunable Crystal/Fano-Type Resonances Enabled by Out-of-Plane Dipolar Coupling in Plasmonic Nanopatch Arrays. Annalen Der Physik, 2018, 530, 1700395.	0.9	9
13	Wideband bright-soliton frequency-comb generation at optical telecommunication wavelength in a thin silicon nitride film. Journal of Nanophotonics, 2018, 12, 1.	0.4	4
14	Anatomy of Phase Locking in Hyperparametric Oscillations Based on Kerr Nonlinearity. IEEE Photonics Journal, 2017, 9, 1-11.	1.0	10
15	Lattice Plasmon Induced Large Enhancement of Excitonic Emission in Monolayer Metal Dichalcogenides. Plasmonics, 2017, 12, 1975-1981.	1.8	5
16	Self-synchronization phenomena in the Lugiato-Lefever equation. Physical Review A, 2017, 96, .	1.0	13
17	Observation of stimulated Brillouin scattering in Si$_3\text{N}_4$ waveguides. , 2017, , .		1
18	Integrated phononic crystal resonators based on adiabatically-terminated phononic crystal waveguides. AIP Advances, 2016, 6, .	0.6	9

#	ARTICLE	IF	CITATIONS
19	Multiplexed detection of lectins using integrated glycan-coated microring resonators. <i>Biosensors and Bioelectronics</i> , 2016, 80, 682-690.	5.3	22
20	Soliton Formation in Whispering-Gallery-Mode Resonators via Input Phase Modulation. <i>IEEE Photonics Journal</i> , 2015, 7, 1-9.	1.0	56
21	Experimental evidence of high-frequency complete elastic bandgap in pillar-based phononic slabs. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	25
22	Double-Layer Crystalline Silicon on Insulator Material Platform for Integrated Photonic Applications. <i>IEEE Photonics Journal</i> , 2014, 6, 1-8.	1.0	7
23	Physics of band-gap formation and its evolution in the pillar-based phononic crystal structures. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	43
24	Hadamard multiplexed fluorescence tomography. <i>Biomedical Optics Express</i> , 2014, 5, 763.	1.5	7
25	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.	3.6	10
26	High-Q resonators on double-layer SOI platform. , 2013, , .		2
27	Accurate post-fabrication trimming of ultra-compact resonators on silicon. , 2013, , .		1
28	On-chip multiplexed photonic gas sensing for the detection of volatile organic compounds. , 2012, , .		0
29	Tunable narrowband filters based on SiN-on-SOI platform. , 2012, , .		0
30	Vertical integration of silicon nitride on silicon-on-insulator platform. , 2012, , .		0
31	Ultra-compact multiplexed lab-on-chip sensors using miniaturized integrated photonic resonators. , 2012, , .		1
32	High-fidelity photonic building blocks fabricated using thermal nanoimprint lithography (T-NIL). , 2012, , .		0
33	Low-Loss Microdisk-Based Delay Lines for Narrowband Optical Filters. <i>IEEE Photonics Technology Letters</i> , 2012, 24, 1276-1278.	1.3	13
34	Accurate post-fabrication trimming of silicon resonators. , 2012, , .		0
35	Optimization of filter architecture for high-order RF-photonic filters on SOI. , 2011, , .		0
36	Compact fluorescence sensor using on-chip silicon nitride microdisk. , 2011, , .		4

#	ARTICLE	IF	CITATIONS
37	Sidewall roughness-induced mode splitting and scattering loss in high Q microdisk resonators: Theory and experiment. , 2011, , .		0
38	Novel porous silicon integrated optical devices for sensing applications. , 2011, , .		0
39	Fast total variation regularization for higher resolution in fluorescence tomography: A split Bregman iteration approach. , 2011, , .		0
40	Label-free flow cytometry using multiplex coherent anti-Stokes Raman scattering (MCARS) for biological analysis. , 2011, , .		0
41	Fully reconfigurable compact RF photonic filters using high-Q silicon microdisk resonators. , 2010, , .		0
42	Low-loss microdisk-based delay lines for narrowband optical filters. , 2010, , .		1
43	Support loss-free micro/nano-mechanical resonators using phononic crystal slab waveguides. , 2010, , .		9
44	Acoustic confinement and waveguiding with a line-defect structure in phononic crystal slabs. Journal of Applied Physics, 2010, 108, 084515.	1.1	41
45	Comparison of Cascade, Lattice, and Parallel Filter Architectures. Journal of Lightwave Technology, 2010, , .	2.7	5
46	Novel resonance-based silicon nanophotonic structures. , 2010, , .		0
47	Sub-100ns and low-loss reconfigurable silicon photonics. , 2010, , .		0
48	Resonator/waveguide coupling in phononic crystals for demultiplexing and filtering applications. , 2010, , .		5
49	Silicon microring resonator sensor with integrated PC spectrometer for sharp spectral features detection. , 2010, , .		0
50	Athermal operation in polymer-clad silicon microdisk resonators. , 2009, , .		0
51	A high-quality factor piezoelectric-on-substrate phononic crystal micromechanical resonator. , 2009, , .		1
52	Sustained GHz oscillations in ultra-high Q silicon microresonators. , 2009, , .		0
53	Sub-microsecond thermal reconfiguration of silicon photonic devices. , 2009, , .		2
54	A row-action based L_1 -minimization approach to robust fluorescent tomography. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
55	Sub-wavelength imaging of optical modes on silicon microdisk cavities using a near-field probing technique. , 2009, , .		0
56	Interferometrically-coupled traveling-wave resonators for nonlinear optics applications. , 2009, , .		0
57	High-Q micromechanical resonators in a two-dimensional phononic crystal slab. Applied Physics Letters, 2009, 94, .	1.5	235
58	Large-scale array of small high-Q microdisk resonators for onchip spectral analysis. , 2009, , .		1
59	Characterization of the effect of small perturbations on the optical modes in high Q microdisk cavities. , 2008, , .		0
60	Implementation of a coupling-tunable resonator for efficient high-bandwidth nonlinear silicon photonics applications. , 2008, , .		0
61	Measurement information content in fluorescent molecular tomography: Experimental results. , 2008, , .		0
62	Evidence of large high frequency complete phononic band gaps in silicon phononic crystal plates. Applied Physics Letters, 2008, 92, .	1.5	194
63	Robust fluorescent tomography using likelihood priors: Phantom experimental results. , 2008, , .		0
64	Large simultaneous band gaps for photonic and phononic crystal slabs. , 2008, , .		2