

Yoan Lã©ger

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	Epitaxial III-V/Si Vertical Heterostructures with Hybrid 2D Semimetal/Semiconductor Ambipolar and Photoactive Properties. <i>Advanced Science</i> , 2022, 9, e2101661.	11.2	13
2	Metal-Insulator-Semiconductor Anodes for Ultrastable and Site-Selective Upconversion Photoinduced Electrochemiluminescence. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	12
3	Continuous-Wave Second-Harmonic Generation in Orientation-Patterned Gallium Phosphide Waveguides at Telecom Wavelengths. <i>ACS Photonics</i> , 2022, 9, 2032-2039.	6.6	7
4	Wireless Anti-Stokes Photoinduced Electrochemiluminescence at Closed Semiconducting Bipolar Electrodes. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 5538-5544.	4.6	9
5	Photoelectrochemistry at semiconductor/liquid interfaces triggered by electrochemiluminescence. <i>Cell Reports Physical Science</i> , 2021, 2, 100670.	5.6	7
6	Strong Electron-Phonon Interaction in 2D Vertical Homovalent III-V Singularities. <i>ACS Nano</i> , 2020, 14, 13127-13136.	14.6	8
7	Generalization of Second-Order Quasi-Phase Matching in Whispering Gallery Mode Resonators Using Berry Phase. <i>ACS Photonics</i> , 2020, 7, 1617-1621.	6.6	2
8	Dual wavelength evanescent coupler for nonlinear GaP-based microdisk resonators. <i>OSA Continuum</i> , 2020, 3, 43.	1.8	1
9	Loss assessment in random crystal polarity gallium phosphide microdisks grown on silicon. <i>Optics Letters</i> , 2020, 45, 4646.	3.3	6
10	Photoelectrochemical water oxidation of GaP _{1-x} Sb _x with a direct band gap of 1.65 eV for full spectrum solar energy harvesting. <i>Sustainable Energy and Fuels</i> , 2019, 3, 1720-1729.	4.9	14
11	A Stress-Free and Textured GaP Template on Silicon for Solar Water Splitting. <i>Advanced Functional Materials</i> , 2018, 28, 1801585.	14.9	22
12	Cathodoluminescence hyperspectral analysis of whispering gallery modes in active semiconductor wedge resonators. <i>Optics Letters</i> , 2018, 43, 1766.	3.3	2
13	Enhanced Second-Order Nonlinearity for THz Generation by Resonant Interaction of Exciton-Polariton Rabi Oscillations with Optical Phonons. <i>Physical Review Letters</i> , 2017, 119, 127401.	7.8	9
14	Defect formation during chlorine-based dry etching and their effects on the electronic and structural properties of InP/InAsP quantum wells. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2016, 34, 041304.	2.1	1
15	Thermal Management of Monolithic Versus Heterogeneous Lasers Integrated on Silicon. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2016, 22, 35-42.	2.9	3
16	Exciton-Polariton Gas as a Nonequilibrium Coolant. <i>Physical Review Letters</i> , 2015, 114, 186403.	7.8	25
17	Phase space monitoring of exciton-polariton multistability. <i>Proceedings of SPIE</i> , 2014, , .	0.8	0
18	VCSEL Based on InAs Quantum-Dashes With a Lasing Operation Over a 117-nm Wavelength Span. <i>IEEE Photonics Technology Letters</i> , 2013, 25, 2126-2128.	2.5	3

#	ARTICLE	IF	CITATIONS
19	Four-wave mixing excitations in a dissipative polariton quantum fluid. Physical Review B, 2012, 86, .	3.2	32
20	Hydrodynamic nucleation of quantized vortex pairs in a polariton quantum fluid. Nature Physics, 2011, 7, 635-641.	16.7	194
21	Probability density tomography of microcavity polaritons confined in cylindrical traps of various sizes. Superlattices and Microstructures, 2010, 47, 207-212.	3.1	10
22	Selective photoexcitation of confined exciton-polariton vortices. Physical Review B, 2010, 82, .	3.2	26
23	Phase-resolved imaging of confined exciton-polariton wave functions in elliptical traps. Physical Review B, 2010, 82, .	3.2	33
24	Probability density optical tomography of confined quasiparticles in a semiconductor microcavity. Applied Physics Letters, 2009, 94, .	3.3	19
25	Optical probing of the spin state of a single magnetic atom in a quantum dot. Comptes Rendus Physique, 2008, 9, 885-901.	0.9	0
26	Metal-Insulator-Semiconductor Anodes for Ultrastable and Site-Selective Upconversion Photoinduced Electrochemiluminescence. Angewandte Chemie, 0, , .	2.0	1