

Arash Rahimi-Iman

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8558578/publications.pdf>

Version: 2024-02-01

64
papers

1,506
citations

430874

18
h-index

315739

38
g-index

69
all docs

69
docs citations

69
times ranked

2378
citing authors

#	ARTICLE	IF	CITATIONS
1	Machine Learning-Based Optimization of Chiral Photonic Nanostructures: Evolution and Neural Network-Based Designs. <i>Physica Status Solidi - Rapid Research Letters</i> , 2022, 16, .	2.4	3
2	Radiative pattern of intralayer and interlayer excitons in two-dimensional WS ₂ /WSe ₂ heterostructure. <i>Scientific Reports</i> , 2022, 12, 6939.	3.3	5
3	Optical Measurement Techniques. <i>Springer Series in Solid-state Sciences</i> , 2021, , 133-185.	0.3	0
4	Light-Matter Interactions for Photonic Applications. <i>Springer Series in Solid-state Sciences</i> , 2021, , 61-97.	0.3	0
5	In the Field of Quantum Technologies. <i>Springer Series in Solid-state Sciences</i> , 2021, , 99-131.	0.3	0
6	Entering a Two-Dimensional Materials World. <i>Springer Series in Solid-state Sciences</i> , 2021, , 17-59.	0.3	0
7	Structuring Possibilities. <i>Springer Series in Solid-state Sciences</i> , 2021, , 209-228.	0.3	0
8	Signatures of a frequency-modulated comb in a VECSEL. <i>Optica</i> , 2021, 8, 458.	9.3	5
9	Tunable Polymer/Air-Bragg Optical Microcavity Configurations for Controllable Light-Matter Interaction Scenarios. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021, 15, 2100182.	2.4	4
10	Microcavity-enhanced Kerr nonlinearity in a vertical-external-cavity surface-emitting laser: erratum. <i>Optics Express</i> , 2021, 29, 23290.	3.4	1
11	Optical dispersion of valley-hybridised coherent excitons with momentum-dependent valley polarisation in monolayer semiconductor. <i>2D Materials</i> , 2021, 8, 015009.	4.4	9
12	Probing the ultrafast gain and refractive index dynamics of a VECSEL. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	3
13	Wavelength and Pump-Power Dependent Nonlinear Refraction and Absorption in a Semiconductor Disk Laser. <i>IEEE Photonics Technology Letters</i> , 2020, 32, 85-88.	2.5	3
14	Lead-Free Antimony Halide Perovskite with Heterovalent Mn ²⁺ Doping. <i>Inorganic Chemistry</i> , 2020, 59, 15289-15294.	4.0	25
15	Advances in Functional Nanomaterials Science. <i>Annalen Der Physik</i> , 2020, 532, 2000015.	2.4	12
16	Direct Measurement of the Radiative Pattern of Bright and Dark Excitons and Exciton Complexes in Encapsulated Tungsten Diselenide. <i>Scientific Reports</i> , 2020, 10, 8091.	3.3	14
17	Continuously-tunable light-matter coupling in optical microcavities with 2D semiconductors. <i>Scientific Reports</i> , 2020, 10, 8303.	3.3	13
18	Polariton Physics. <i>Springer Series in Optical Sciences</i> , 2020, , .	0.7	13

#	ARTICLE	IF	CITATIONS
19	Widely Tunable Terahertz-Generating Semiconductor Disk Laser. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020, 14, 2000204.	2.4	7
20	Technological Realization of Polariton Systems. <i>Springer Series in Optical Sciences</i> , 2020, , 139-166.	0.7	3
21	Spin-Layer and Spin-Valley Locking in CVD-Grown AA ²⁺ - and AB-Stacked Tungsten-Disulfide Bilayers. <i>Journal of Physical Chemistry C</i> , 2019, 123, 21813-21821.	3.1	27
22	Direct Optical Evidence of Free Excitons in a Monolayer Quantum Material and Effective-Mass Measurements. , 2019, , .		0
23	Spin-Layer- and Spin-Valley-Locking Due to Symmetry in Differently-Stacked Tungsten Disulfide Bilayers. , 2019, , .		0
24	Study of laser-induced-plasma parameters for molybdenum targets. <i>Plasma Research Express</i> , 2019, 1, 035004.	0.9	3
25	A simple approach to fiber-based tunable microcavity with high coupling efficiency. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	18
26	Enhancement of the Monolayer Tungsten Disulfide Exciton Photoluminescence with a Two-Dimensional Material/Air/Gallium Phosphide In-Plane Microcavity. <i>ACS Nano</i> , 2019, 13, 5259-5267.	14.6	21
27	Observation of Intralayer and Interlayer Excitons in Monolayered WSe ₂ /WS ₂ Heterostructure. <i>Semiconductors</i> , 2019, 53, 2140-2146.	0.5	6
28	Nonlinear Lensing Phenomena in Semiconductor Disk Lasers. , 2019, , .		0
29	Room-Temperature CW Widely-Tunable THz-Generating Laser. , 2019, , .		0
30	Microcavity-enhanced Kerr nonlinearity in a vertical-external-cavity surface-emitting laser. <i>Optics Express</i> , 2019, 27, 11914.	3.4	16
31	Shedding light on exciton TM s nature in monolayer quantum material by optical dispersion measurements. <i>Optics Express</i> , 2019, 27, 37131.	3.4	14
32	Two-chip power-scalable THz-generating semiconductor disk laser. <i>Optics Letters</i> , 2019, 44, 4000.	3.3	7
33	The Impact of the Substrate Material on the Optical Properties of 2D WSe ₂ Monolayers. <i>Semiconductors</i> , 2018, 52, 565-571.	0.5	14
34	The influence of the environment on monolayer tungsten diselenide photoluminescence. <i>Nano Structures Nano Objects</i> , 2018, 15, 84-97.	3.5	21
35	Hybrid Structure of 2D Layered GaTe with Au Nanoparticles for Ultrasensitive Detection of Aromatic Molecules. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 1356-1362.	8.0	16
36	Self-mode-locking and nonlinear lensing in VECSELs. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
37	Density-dependent excitonic properties and dynamics in 2D heterostructures consisting of boron nitride and monolayer or few-layer tungsten diselenide. , 2018, , .		0
38	Fundamental transverse mode operation of a type-II vertical-external-cavity surface-emitting laser at 1.2 Åm. Electronics Letters, 2017, 53, 93-94.	1.0	7
39	Influence of the substrate material on the optical properties of tungsten diselenide monolayers. 2D Materials, 2017, 4, 025045.	4.4	80
40	Impact of detuning on the performance of semiconductor disk lasers. Applied Physics B: Lasers and Optics, 2017, 123, 1.	2.2	3
41	Self-mode-locked AlGaInP-VECSEL. Applied Physics Letters, 2017, 111, .	3.3	15
42	TiN Nanoparticles for Enhanced THz Generation in TDS Systems. Journal of Infrared, Millimeter, and Terahertz Waves, 2017, 38, 1206-1214.	2.2	10
43	Gain spectroscopy of a type-II VECSEL chip. Applied Physics Letters, 2016, 109, .	3.3	13
44	Self-mode-locked semiconductor disk lasers. , 2016, , .		0
45	Color Change Effect in an Organic-Inorganic Hybrid Material Based on a Porphyrin Diacid. Journal of Physical Chemistry C, 2016, 120, 28363-28373.	3.1	34
46	Influence of growth temperature and disorder on spectral and temporal properties of Ga(NAsP) heterostructures. Journal of Applied Physics, 2016, 119, .	2.5	7
47	Self-mode-locked vertical-external-cavity surface-emitting laser. Proceedings of SPIE, 2016, , .	0.8	5
48	Recent advances in VECSELS. Journal of Optics (United Kingdom), 2016, 18, 093003.	2.2	56
49	A serially-connected two-chip VECSEL for dual-wavelength emission. , 2016, , .		0
50	Mode-locked semiconductor disk lasers. Advances in Optics and Photonics, 2016, 8, 370.	25.5	58
51	Gate Tuning of Förster Resonance Energy Transfer in a Graphene - Quantum Dot FET Photo-Detector. Scientific Reports, 2016, 6, 28224.	3.3	16
52	Investigation of the Beam Quality of a Terahertz Emitting Vertical-External-Cavity Surface-Emitting Laser. Journal of Infrared, Millimeter, and Terahertz Waves, 2016, 37, 536-539.	2.2	3
53	Dual-Wavelength Emission From a Serially Connected Two-Chip VECSEL. IEEE Photonics Technology Letters, 2016, 28, 927-929.	2.5	21
54	Oxygen Intercalation Induced by Photocatalysis on the Surface of Hybrid Lead Halide Perovskites. Journal of Physical Chemistry C, 2016, 120, 7606-7611.	3.1	52

#	ARTICLE	IF	CITATIONS
55	Characterization of an abnormal photoluminescence behavior upon crystal-phase transition of perovskite $\text{CH}_3\text{NH}_3\text{PbI}_3$. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 16405-16411.	2.8	215
56	Analysis of optical scattering losses in vertical-external-cavity surface-emitting lasers. <i>Applied Physics B: Lasers and Optics</i> , 2015, 120, 41-46.	2.2	4
57	Self-mode-locked quantum-dot vertical-external-cavity surface-emitting laser. <i>Optics Letters</i> , 2014, 39, 4623.	3.3	35
58	A 23-watt single-frequency vertical-external-cavity surface-emitting laser. <i>Optics Express</i> , 2014, 22, 12817.	3.4	45
59	Self-mode-locking semiconductor disk laser. <i>Optics Express</i> , 2014, 22, 28390.	3.4	46
60	Harmonic self-mode-locking of optically pumped semiconductor disc laser. <i>Electronics Letters</i> , 2014, 50, 542-543.	1.0	39
61	High-Power Quantum-Dot Vertical-External-Cavity Surface-Emitting Laser Exceeding 8 W. <i>IEEE Photonics Technology Letters</i> , 2014, 26, 1561-1564.	2.5	19
62	Interferometric Characterization of a Semiconductor Disk Laser driven Terahertz Source. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2014, 35, 503-508.	2.2	20
63	Evolution of multi-mode emission from vertical-external-cavity surface-emitting lasers. , 2014, , .		0
64	An electrically pumped polariton laser. <i>Nature</i> , 2013, 497, 348-352.	27.8	420