

Anna Baldycheva

List of Publications by Year in descending order

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83
papers

1,003
citations

516561

16
h-index

454834

30
g-index

83
all docs

83
docs citations

83
times ranked

1324
citing authors

#	ARTICLE	IF	CITATIONS
1	Reconfigurable multilevel control of hybrid all-dielectric phase-change metasurfaces. <i>Optica</i> , 2020, 7, 476.	4.8	153
2	Graphene electronic fibres with touch-sensing and light-emitting functionalities for smart textiles. <i>Npj Flexible Electronics</i> , 2018, 2, .	5.1	62
3	2D material liquid crystals for optoelectronics and photonics. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11185-11195.	2.7	61
4	Tunable Volatility of Ge ₂ Sb ₂ Te ₅ in Integrated Photonics. <i>Advanced Functional Materials</i> , 2019, 29, 1807571.	7.8	57
5	Tunable optical metasurfaces enabled by chalcogenide phase-change materials: from the visible to the THz. <i>Journal of Optics (United Kingdom)</i> , 2020, 22, 114001.	1.0	45
6	Ultra-narrow-linewidth Al ₂ O ₃ :Er ³⁺ lasers with a wavelength-insensitive waveguide design on a wafer-scale silicon nitride platform. <i>Optics Express</i> , 2017, 25, 13705.	1.7	40
7	Silicon Nitride Photonics for the Near-Infrared. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2020, 26, 1-13.	1.9	40
8	Multi-layer graphene as a selective detector for future lung cancer biosensing platforms. <i>Nanoscale</i> , 2019, 11, 2476-2483.	2.8	39
9	On-chip sub-wavelength Bragg grating design based on novel low loss phase-change materials. <i>Optics Express</i> , 2020, 28, 16394.	1.7	39
10	Plasmonically-enhanced all-optical integrated phase-change memory. <i>Optics Express</i> , 2019, 27, 24724.	1.7	35
11	Surface states in the optical spectra of two-dimensional photonic crystals with various surface terminations. <i>Physical Review B</i> , 2012, 86, .	1.1	30
12	Silicon photonic crystal filter with ultrawide passband characteristics. <i>Optics Letters</i> , 2011, 36, 1854.	1.7	23
13	O-band N-rich silicon nitride MZI based on GST. <i>Applied Physics Letters</i> , 2020, 116, 093502.	1.5	23
14	Photo-tunable terahertz absorber based on intercalated few-layer graphene. <i>Journal of Optics (United Kingdom)</i> , 2020, 22, 114001.	1.9	22
15	A plasmonically enhanced route to faster and more energy-efficient phase-change integrated photonic memory and computing devices. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	20
16	Mechanochemical synthesis of carbon-stabilized Cu/C, Co/C and Ni/C nanocomposites with prolonged resistance to oxidation. <i>Scientific Reports</i> , 2019, 9, 17435.	1.6	18
17	One-Dimensional Multi-Channel Photonic Crystal Resonators Based on Silicon-On-Insulator With High Quality Factor. <i>Frontiers in Physics</i> , 2018, 6, .	1.0	16
18	Performance characteristics of phase-change integrated silicon nitride photonic devices in the O and C telecommunications bands. <i>Optical Materials Express</i> , 2020, 10, 1778.	1.6	16

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19	Fabrication technology of heterojunctions in the lattice of a 2D photonic crystal based on macroporous silicon. <i>Semiconductors</i> , 2011, 45, 1103-1110.	0.2	15
20	ELECTRICALLY TUNABLE FABRY-PEROT RESONATOR BASED ON MICROSTRUCTURED SI CONTAINING LIQUID CRYSTAL. <i>Progress in Electromagnetics Research</i> , 2012, 122, 293-309.	1.6	15
21	Dynamic in-situ sensing of fluid-dispersed 2D materials integrated on microfluidic Si chip. <i>Scientific Reports</i> , 2017, 7, 42120.	1.6	15
22	NLL-Assisted Multilayer Graphene Patterning. <i>ACS Omega</i> , 2018, 3, 1546-1554.	1.6	15
23	Photoluminescence from NV ⁰ Centres in 5 nm Detonation Nanodiamonds: Identification and High Sensitivity to Magnetic Field. <i>Nanoscale Research Letters</i> , 2019, 14, 279.	3.1	15
24	Simple technique for determining the refractive index of phase-change materials using near-infrared reflectometry. <i>Optical Materials Express</i> , 2020, 10, 1675.	1.6	13
25	INFLUENCE OF FLUCTUATIONS OF THE GEOMETRICAL PARAMETERS ON THE PHOTONIC BAND GAPS IN ONE-DIMENSIONAL PHOTONIC CRYSTALS. <i>Progress in Electromagnetics Research</i> , 2012, 126, 285-302.	1.6	12
26	Polarization properties of few-layer graphene on silicon substrate in terahertz frequency range. <i>SN Applied Sciences</i> , 2019, 1, 1.	1.5	12
27	High-Quality Green-Emitting Nanodiamonds Fabricated by HPHT Sintering of Polycrystalline Shockwave Diamonds. <i>Nanoscale Research Letters</i> , 2020, 15, 209.	3.1	12
28	Optical Contrast Tuning in Three-Component One-Dimensional Photonic Crystals. <i>Journal of Lightwave Technology</i> , 2010, 28, 1521-1529.	2.7	11
29	Photoexcited terahertz conductivity in multi-layered and intercalated graphene. <i>Optics Communications</i> , 2020, 459, 124982.	1.0	11
30	Optical characteristics of a one-dimensional photonic crystal with an additional regular layer. <i>Proceedings of SPIE</i> , 2009, , .	0.8	8
31	Transmission Properties of FeCl ₃ -Intercalated Graphene and WS ₂ Thin Films for Terahertz Time-Domain Spectroscopy Applications. <i>Nanoscale Research Letters</i> , 2019, 14, 225.	3.1	8
32	Tuning silicon-rich nitride microring resonances with graphene capacitors for high-performance computing applications. <i>Optics Express</i> , 2019, 27, 35129.	1.7	8
33	Formation of Infrared Regions of Transparency in One-Dimensional Silicon Photonic Crystals. <i>IEEE Photonics Technology Letters</i> , 2011, 23, 200-202.	1.3	7
34	Integrated Mode-Locked Lasers in a CMOS-Compatible Silicon Photonic Platform. , 2015, , .		7
35	Phase-change band-pass filters for multispectral imaging. , 2018, , .		7
36	Multi-channel Si-liquid crystal filter with fine tuning capability of individual channels for compensation of fabrication tolerances. <i>Nanoscale Research Letters</i> , 2012, 7, 387.	3.1	6

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37	2D WS ₂ liquid crystals: tunable functionality enabling diverse applications. <i>Nanoscale</i> , 2019, 11, 16886-16895.	2.8	6
38	Wireless graphene-enabled wearable temperature sensor. <i>Journal of Physics: Conference Series</i> , 2020, 1571, 012001.	0.3	6
39	From colloidal CdSe quantum dots to microscale optically anisotropic supercrystals through bottom-up self-assembly. <i>Journal of Materials Chemistry C</i> , 2018, 6, 12904-12911.	2.7	5
40	Surface Tamm states in a photonic crystal slab with asymmetric termination. <i>Physica Status Solidi - Rapid Research Letters</i> , 2013, 7, 481-484.	1.2	4
41	Nitrogen impurities and fluorescent nitrogen-vacancy centers in detonation nanodiamonds: identification and distinct features. <i>Journal of Optical Technology (A Translation of Opticheskii Tj ETQq1 1 0.7843 142rgBT /Overlock 10</i>	0.7843	4
42	Non-volatile integrated photonic memory using GST phase change material on a fully etched Si ₃ N ₄ /SiO ₂ waveguide. , 2020, , .		4
43	Smart textile: Exploration of wireless sensing capabilities. , 2017, , .		3
44	Transmission properties of van der Waals materials for terahertz time-domain spectroscopy applications. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	3
45	Wireless Graphene Temperature Sensor. , 2020, , .		3
46	Silicon Periodic Structures and their Liquid Crystal Composites. <i>Solid State Phenomena</i> , 0, 156-158, 547-554.	0.3	2
47	Design, fabrication, and optical characterization of Fabry-Pérot tunable resonator based on microstructured Si and liquid crystal. <i>Proceedings of SPIE</i> , 2010, , .	0.8	2
48	Design of three-component one-dimensional photonic crystals with tuning of optical contrast and regions of transparency. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011, 8, 1961-1965.	0.8	2
49	Optical spectra of two-dimensional photonic crystal bars based on macroporous Si. , 2011, , .		2
50	Transmission of modified graphene layers on glass, sapphire and polyimide film substrates in UV, visible, NIR and THz spectral ranges. , 2018, , .		2
51	Multilayer graphene based tunable metasurface for terahertz wave control. , 2018, , .		2
52	Simple technique for determining the refractive index of phase-change materials using near-infrared reflectometry. <i>Optical Materials Express</i> , 2020, 10, 1675.	1.6	2
53	Performance characteristics of phase-change integrated silicon nitride photonic devices in the O and C telecommunications bands. <i>Optical Materials Express</i> , 2020, 10, 1778.	1.6	2
54	Design of three-component one-dimensional photonic crystals for alteration of optical contrast and omni-directional reflection. <i>Proceedings of SPIE</i> , 2010, , .	0.8	1

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55	Transformation of one-dimensional silicon photonic crystal into Fabry-Perot resonator. , 2011, , .		1
56	Design, fabrication, and optical characterization of multicomponent photonic crystals for integrated silicon microphotronics. , 2011, , .		1
57	Tunable Microcavity Based on Macroporous Silicon: Feasibility of Fabrication. Journal of Lightwave Technology, 2013, 31, 2694-2700.	2.7	1
58	Erbium-Doped Laser with Multi-segmented Silicon Nitride Structure. , 2014, , .		1
59	The study of optical properties of graphene intercalated with ferric chloride for application in terahertz photonics. Journal of Physics: Conference Series, 2018, 1124, 071007.	0.3	1
60	Multi-layered Graphene Based Optically Tunable Terahertz Absorber. , 2019, , .		1
61	Coherent anti-stokes Raman scattering spectroscopy (CARS) and imaging of DNA on graphene layers and glass covers. FlatChem, 2021, 27, 100243.	2.8	1
62	Integrated Al ₂ O ₃ :Er ³⁺ DFB Laser for Temperature Control Free Operation with Silicon Nitride Ring Filter. , 2014, , .		1
63	Integrated Phase-change Photonics: A Strategy for Merging Communication and Computing. , 2019, , .		1
64	Sub-wavelength plasmonic-enhanced phase-change memory. , 2020, , .		1
65	Multilayer graphene: ion gel amplitude modulator for terahertz frequency range. , 2020, , .		1
66	Anisotropy of Optical Properties of Hexagonal Boron Nitride Films. Physics of the Solid State, 2021, 63, 1437-1441.	0.2	1
67	Fine tunable multi-cavity Si photonic crystal filters. Proceedings of SPIE, 2012, , .	0.8	0
68	2D Material Liquid Crystals for Optoelectronics and Photonics. , 2018, , .		0
69	Phase-Change Metadevices for the Dynamic and Reconfigurable Control of Light. , 2018, , .		0
70	Double-cavity Fabry-Perot resonators based on one-dimensional silicon photonic crystals. AIP Conference Proceedings, 2018, , .	0.3	0
71	The terahertz near-field response of graphene layers and graphene structures. , 2019, , .		0
72	Terahertz Time-Domain Polarimetry of Carbon Nanomaterials. , 2019, , .		0

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73	Transmission properties of transition metal dichalcogenides and modified graphene thin films in visible, NIR and THz frequency ranges. , 2019, , .		0
74	Graphene-based optically tunable structure for terahertz polarization control. Journal of Physics: Conference Series, 2020, 1461, 012062.	0.3	0
75	Spatial tracking of individual fluid dispersed particles via Raman spectroscopy. Scientific Reports, 2020, 10, 14350.	1.6	0
76	Applied computing approach calculations for g-Factor and HFS calculations of Light Ions. Journal of Physics: Conference Series, 2020, 1571, 012002.	0.3	0
77	2D Material Liquid Crystal Nanocomposites for Optoelectronic and Photonic Devices. , 2018, , .		0
78	Raman Spectroscopy as a Tool for Characterisation of Liquid Phase Devices. , 2018, , .		0
79	Ultra-narrow-linewidth erbium-doped lasers on a silicon photonics platform. , 2018, , .		0
80	2D materials integrated in Si3N4 photonics platform. , 2018, , .		0
81	Visible light emitting waveguide on Si chip. , 2018, , .		0
82	Time resolved terahertz spectroscopy of optically pumped multilayered graphene on silicon substrate. , 2018, , .		0
83	Reconfigurable photonic integrated circuits (RPICs) based on functional materials for integrated optical communication applications. , 2020, , .		0