

Alexey Yamilov

List of Publications by Year in descending order

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63
papers

1,413
citations

471509

17
h-index

330143

37
g-index

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all docs

63
docs citations

63
times ranked

1486
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-assembled 3D photonic crystals from ZnO colloidal spheres. <i>Materials Chemistry and Physics</i> , 2003, 80, 257-263.	4.0	189
2	Fabrication of inverted opal ZnO photonic crystals by atomic layer deposition. <i>Applied Physics Letters</i> , 2005, 86, 151113.	3.3	143
3	Random lasing in weakly scattering systems. <i>Physical Review A</i> , 2006, 74, .	2.5	137
4	Ultraviolet photonic crystal laser. <i>Applied Physics Letters</i> , 2004, 85, 3657-3659.	3.3	130
5	Ultraviolet lasing in high-order bands of three-dimensional ZnO photonic crystals. <i>Applied Physics Letters</i> , 2006, 88, 201103.	3.3	83
6	Near-Field Intensity Correlations in Semicontinuous Metal-Dielectric Films. <i>Physical Review Letters</i> , 2005, 94, 226101.	7.8	52
7	Quantum dots by ultraviolet and x-ray lithography. <i>Nanotechnology</i> , 2007, 18, 315603.	2.6	51
8	Transverse localization of transmission eigenchannels. <i>Nature Photonics</i> , 2019, 13, 352-358.	31.4	44
9	Absorption-induced confinement of lasing modes in diffusive random media. <i>Optics Letters</i> , 2005, 30, 2430.	3.3	41
10	Light localization induced by a random imaginary refractive index. <i>Physical Review A</i> , 2014, 90, .	2.5	38
11	Large enhancement of spontaneous emission rates of InAs quantum dots in GaAs microdisks. <i>Optics Letters</i> , 2002, 27, 948.	3.3	32
12	Anderson localization as position-dependent diffusion in disordered waveguides. <i>Physical Review B</i> , 2010, 82, .	3.2	32
13	Effect of ZnO Nanostructures on 2-Dimensional Random Lasing Properties. <i>Chemistry of Materials</i> , 2004, 16, 5414-5419.	6.7	29
14	Field and intensity correlations in amplifying random media. <i>Physical Review B</i> , 2005, 71, .	3.2	26
15	Angular Memory Effect of Transmission Eigenchannels. <i>Physical Review Letters</i> , 2019, 123, 203901.	7.8	20
16	Control of mesoscopic transport by modifying transmission channels in opaque media. <i>Physical Review B</i> , 2015, 92, .	3.2	19
17	Shape dependence of transmission, reflection, and absorption eigenvalue densities in disordered waveguides with dissipation. <i>Physical Review B</i> , 2016, 93, .	3.2	19
18	Scaling in one-dimensional localized absorbing systems. <i>Physical Review B</i> , 2001, 64, .	3.2	18

#	ARTICLE	IF	CITATIONS
19	Numerical study of light correlations in a random medium close to the Anderson localization threshold. <i>Optics Letters</i> , 2004, 29, 917.	3.3	18
20	Depth-targeted energy delivery deep inside scattering media. <i>Nature Physics</i> , 2022, 18, 309-315.	16.7	18
21	Effects of localization and amplification on intensity distribution of light transmitted through random media. <i>Physical Review E</i> , 2004, 70, 037603.	2.1	17
22	Self-Optimization of Optical Confinement in an Ultraviolet Photonic Crystal Slab Laser. <i>Physical Review Letters</i> , 2006, 96, 083905.	7.8	17
23	Inverse design of perfectly transmitting eigenchannels in scattering media. <i>Physical Review B</i> , 2017, 96, .	3.2	16
24	Relation between transmission and energy stored in random media with gain. <i>Physical Review B</i> , 2010, 82, .	3.2	15
25	Effect of Kerr nonlinearity on defect lasing modes in weakly disordered photonic crystals. <i>Applied Physics Letters</i> , 2003, 83, 1092-1094.	3.3	14
26	Probing long-range intensity correlations inside disordered photonic nanostructures. <i>Physical Review B</i> , 2014, 90, .	3.2	14
27	Effects of resonant tunneling in electromagnetic wave propagation through a polariton gap. <i>Physical Review B</i> , 1999, 59, 11339-11348.	3.2	13
28	Local polariton modes and resonant tunneling of electromagnetic waves through periodic Bragg multiple quantum well structures. <i>Physical Review B</i> , 2001, 64, .	3.2	13
29	Interplay between localization and absorption in disordered waveguides. <i>Optics Express</i> , 2013, 21, 11688.	3.4	13
30	Entrainment and stimulated emission of ultrasonic piezoelectric auto-oscillators. <i>Journal of the Acoustical Society of America</i> , 2007, 122, 3409-3418.	1.1	11
31	Control of light diffusion in a disordered photonic waveguide. <i>Applied Physics Letters</i> , 2014, 105, 041104.	3.3	10
32	Enhancing light transmission through a disordered waveguide with inhomogeneous scattering and loss. <i>Applied Physics Letters</i> , 2017, 110, 021103.	3.3	10
33	Concept of local polaritons and optical properties of mixed polar crystals. <i>Physical Review B</i> , 2000, 62, 6301-6316.	3.2	9
34	Polariton local states in periodic Bragg multiple-quantum-well structures. <i>Optics Letters</i> , 2000, 25, 1705.	3.3	9
35	Photonic band structure of ZnO photonic crystal slab laser. <i>Journal of Applied Physics</i> , 2005, 98, 103102.	2.5	9
36	Effect of amplification on conductance distribution of a disordered waveguide. <i>Physical Review E</i> , 2006, 74, 056609.	2.1	8

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37	Enhanced coupling of light into a turbid medium through microscopic interface engineering. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 7941-7946.	7.1	8
38	Fluctuations and Correlations of Transmission Eigenchannels in Diffusive Media. Physical Review Letters, 2020, 125, 165901.	7.8	8
39	Criterion for light localization in random amplifying media. Physica B: Condensed Matter, 2010, 405, 3012-3015.	2.7	7
40	Using geometry to manipulate long-range correlation of light inside disordered media. Physical Review B, 2015, 92, .	3.2	7
41	Defect-induced resonant tunneling of electromagnetic waves through a polariton gap. Europhysics Letters, 1999, 46, 524-529.	2.0	6
42	Large spontaneous emission enhancement in InAs quantum dots coupled to microdisk whispering gallery modes. Physica Status Solidi (B): Basic Research, 2003, 238, 309-312.	1.5	6
43	Classification of regimes of wave transport in quasi-one-dimensional non-conservative random media. Journal of Modern Optics, 2010, 57, 1916-1921.	1.3	6
44	Optical spectra and inhomogeneous broadening in CdTe/CdZnTe MQW structures with defects. Nanotechnology, 2002, 13, 114-119.	2.6	5
45	Relation between channel and spatial mesoscopic correlations in volume-disordered waveguides. Physical Review B, 2008, 78, .	3.2	5
46	Enhanced optical coupling and Raman scattering via microscopic interface engineering. Applied Physics Letters, 2017, 111, .	3.3	5
47	Inverse design of long-range intensity correlation in scattering media. Physical Review B, 2019, 100, .	3.2	3
48	Uncloaking diffusive-light invisibility cloaks by speckle analysis. Optics Letters, 2017, 42, 1998.	3.3	3
49	Artificially disordered birefringent optical fibers. Optics Express, 2012, 20, 3620.	3.4	2
50	Detection of a diffusive cloak via second-order statistics. Optics Letters, 2016, 41, 3860.	3.3	2
51	Polariton local states in periodic Bragg multiple-quantum-well structures:â€ferrata. Optics Letters, 2001, 26, 241.	3.3	1
52	Dynamic nonlinear effect on lasing in random media. , 2003, , .		1
53	Two-scatterer laser. , 2006, , .		1
54	Tunable local polariton modes in semiconductors. Physical Review B, 2001, 64, .	3.2	0

#	ARTICLE	IF	CITATIONS
55	Large enhancement of spontaneous emission rates of InAs quantum dots in GaAs microdisks. , 0, , .		0
56	Near-field intensity correlations in semicontinuous metal films. , 0, , .		0
57	Position Dependent Diffusion of Light in Disordered Waveguides. , 2013, , .		0
58	Position-dependent diffusion coefficient as localization criterion in nonconservative random media. , 2011, , .		0
59	Universality of wave transport in absorbing random media. , 2012, , .		0
60	Self-Optimization of Optical Confinement and Lasing Action in Disordered Photonic Crystals. Series in Optics and Optoelectronics, 2012, , 395-414.	0.0	0
61	Wave localization as position-dependent diffusion: analytical results. , 2014, , .		0
62	Inverse Design of Eigenchannels in Scattering Media. , 2017, , .		0
63	Inverse Design of Long-range Intensity Correlations in Scattering Media. , 2018, , .		0