

Alexey Yamilov

List of Publications by Year in descending order

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63
papers

1,413
citations

471509

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330143

37
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63
all docs

63
docs citations

63
times ranked

1486
citing authors

#	ARTICLE	IF	CITATIONS
1	Depth-targeted energy delivery deep inside scattering media. <i>Nature Physics</i> , 2022, 18, 309-315.	16.7	18
2	Fluctuations and Correlations of Transmission Eigenchannels in Diffusive Media. <i>Physical Review Letters</i> , 2020, 125, 165901.	7.8	8
3	Inverse design of long-range intensity correlation in scattering media. <i>Physical Review B</i> , 2019, 100, .	3.2	3
4	Angular Memory Effect of Transmission Eigenchannels. <i>Physical Review Letters</i> , 2019, 123, 203901.	7.8	20
5	Transverse localization of transmission eigenchannels. <i>Nature Photonics</i> , 2019, 13, 352-358.	31.4	44
6	Inverse Design of Long-range Intensity Correlations in Scattering Media. , 2018, , .		0
7	Enhancing light transmission through a disordered waveguide with inhomogeneous scattering and loss. <i>Applied Physics Letters</i> , 2017, 110, 021103.	3.3	10
8	Inverse design of perfectly transmitting eigenchannels in scattering media. <i>Physical Review B</i> , 2017, 96, .	3.2	16
9	Enhanced optical coupling and Raman scattering via microscopic interface engineering. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	5
10	Enhanced coupling of light into a turbid medium through microscopic interface engineering. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 7941-7946.	7.1	8
11	Uncloaking diffusive-light invisibility cloaks by speckle analysis. <i>Optics Letters</i> , 2017, 42, 1998.	3.3	3
12	Inverse Design of Eigenchannels in Scattering Media. , 2017, , .		0
13	Detection of a diffusive cloak via second-order statistics. <i>Optics Letters</i> , 2016, 41, 3860.	3.3	2
14	Shape dependence of transmission, reflection, and absorption eigenvalue densities in disordered waveguides with dissipation. <i>Physical Review B</i> , 2016, 93, .	3.2	19
15	Using geometry to manipulate long-range correlation of light inside disordered media. <i>Physical Review B</i> , 2015, 92, .	3.2	7
16	Control of mesoscopic transport by modifying transmission channels in opaque media. <i>Physical Review B</i> , 2015, 92, .	3.2	19
17	Control of light diffusion in a disordered photonic waveguide. <i>Applied Physics Letters</i> , 2014, 105, 041104.	3.3	10
18	Light localization induced by a random imaginary refractive index. <i>Physical Review A</i> , 2014, 90, .	2.5	38

#	ARTICLE	IF	CITATIONS
19	Probing long-range intensity correlations inside disordered photonic nanostructures. Physical Review B, 2014, 90, .	3.2	14
20	Wave localization as position-dependent diffusion: analytical results. , 2014, , .		0
21	Interplay between localization and absorption in disordered waveguides. Optics Express, 2013, 21, 11688.	3.4	13
22	Position Dependent Diffusion of Light in Disordered Waveguides. , 2013, , .		0
23	Artificially disordered birefringent optical fibers. Optics Express, 2012, 20, 3620.	3.4	2
24	Universality of wave transport in absorbing random media. , 2012, , .		0
25	Self-Optimization of Optical Confinement and Lasing Action in Disordered Photonic Crystals. Series in Optics and Optoelectronics, 2012, , 395-414.	0.0	0
26	Position-dependent diffusion coefficient as localization criterion in nonconservative random media. , 2011, , .		0
27	Criterion for light localization in random amplifying media. Physica B: Condensed Matter, 2010, 405, 3012-3015.	2.7	7
28	Relation between transmission and energy stored in random media with gain. Physical Review B, 2010, 82, .	3.2	15
29	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
30	Anderson localization as position-dependent diffusion in disordered waveguides. Physical Review B, 2010, 82, .	3.2	32
31	Relation between channel and spatial mesoscopic correlations in volume-disordered waveguides. Physical Review B, 2008, 78, .	3.2	5
32	Entrainment and stimulated emission of ultrasonic piezoelectric auto-oscillators. Journal of the Acoustical Society of America, 2007, 122, 3409-3418.	1.1	11
33	Quantum dots by ultraviolet and x-ray lithography. Nanotechnology, 2007, 18, 315603.	2.6	51
34	Effect of amplification on conductance distribution of a disordered waveguide. Physical Review E, 2006, 74, 056609.	2.1	8
35	Random lasing in weakly scattering systems. Physical Review A, 2006, 74, .	2.5	137
36	Self-Optimization of Optical Confinement in an Ultraviolet Photonic Crystal Slab Laser. Physical Review Letters, 2006, 96, 083905.	7.8	17

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37	Two-scatterer laser. , 2006, , .		1
38	Ultraviolet lasing in high-order bands of three-dimensional ZnO photonic crystals. Applied Physics Letters, 2006, 88, 201103.	3.3	83
39	Photonic band structure of ZnO photonic crystal slab laser. Journal of Applied Physics, 2005, 98, 103102.	2.5	9
40	Fabrication of inverted opal ZnO photonic crystals by atomic layer deposition. Applied Physics Letters, 2005, 86, 151113.	3.3	143
41	Near-Field Intensity Correlations in Semicontinuous Metal-Dielectric Films. Physical Review Letters, 2005, 94, 226101.	7.8	52
42	Field and intensity correlations in amplifying random media. Physical Review B, 2005, 71, .	3.2	26
43	Absorption-induced confinement of lasing modes in diffusive random media. Optics Letters, 2005, 30, 2430.	3.3	41
44	Effects of localization and amplification on intensity distribution of light transmitted through random media. Physical Review E, 2004, 70, 037603.	2.1	17
45	Effect of ZnO Nanostructures on 2-Dimensional Random Lasing Properties. Chemistry of Materials, 2004, 16, 5414-5419.	6.7	29
46	Numerical study of light correlations in a random medium close to the Anderson localization threshold. Optics Letters, 2004, 29, 917.	3.3	18
47	Ultraviolet photonic crystal laser. Applied Physics Letters, 2004, 85, 3657-3659.	3.3	130
48	Self-assembled 3D photonic crystals from ZnO colloidal spheres. Materials Chemistry and Physics, 2003, 80, 257-263.	4.0	189
49	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
50	Dynamic nonlinear effect on lasing in random media. , 2003, , .		1
51	Effect of Kerr nonlinearity on defect lasing modes in weakly disordered photonic crystals. Applied Physics Letters, 2003, 83, 1092-1094.	3.3	14
52	Optical spectra and inhomogeneous broadening in CdTe/CdZnTe MQW structures with defects. Nanotechnology, 2002, 13, 114-119.	2.6	5
53	Large enhancement of spontaneous emission rates of InAs quantum dots in GaAs microdisks. Optics Letters, 2002, 27, 948.	3.3	32
54	Polariton local states in periodic Bragg multiple-quantum-well structures:â€ferrata. Optics Letters, 2001, 26, 241.	3.3	1

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55	Local polariton modes and resonant tunneling of electromagnetic waves through periodic Bragg multiple quantum well structures. Physical Review B, 2001, 64, .	3.2	13
56	Scaling in one-dimensional localized absorbing systems. Physical Review B, 2001, 64, .	3.2	18
57	Tunable local polariton modes in semiconductors. Physical Review B, 2001, 64, .	3.2	0
58	Concept of local polaritons and optical properties of mixed polar crystals. Physical Review B, 2000, 62, 6301-6316.	3.2	9
59	Polariton local states in periodic Bragg multiple-quantum-well structures. Optics Letters, 2000, 25, 1705.	3.3	9
60	Defect-induced resonant tunneling of electromagnetic waves through a polariton gap. Europhysics Letters, 1999, 46, 524-529.	2.0	6
61	Effects of resonant tunneling in electromagnetic wave propagation through a polariton gap. Physical Review B, 1999, 59, 11339-11348.	3.2	13
62	Large enhancement of spontaneous emission rates of InAs quantum dots in GaAs microdisks. , 0, , .		0
63	Near-field intensity correlations in semicontinuous metal films. , 0, , .		0