

Pedro David Garcia Fernandez

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

2,096
citations

304368

22
h-index

360668

35
g-index

40
all docs

40
docs citations

40
times ranked

2169
citing authors

#	ARTICLE	IF	CITATIONS
1	Cavity Quantum Electrodynamics with Anderson-Localized Modes. <i>Science</i> , 2010, 327, 1352-1355.	6.0	293
2	Resonance-driven random lasing. <i>Nature Photonics</i> , 2008, 2, 429-432.	15.6	261
3	Photonic Glass: A Novel Random Material for Light. <i>Advanced Materials</i> , 2007, 19, 2597-2602.	11.1	230
4	Random nanolasing in the Anderson localized regime. <i>Nature Nanotechnology</i> , 2014, 9, 285-289.	15.6	152
5	Photonic Glasses: A Step Beyond White Paint. <i>Advanced Materials</i> , 2010, 22, 12-19.	11.1	148
6	ZnO Inverse Opals by Chemical Vapor Deposition. <i>Advanced Materials</i> , 2005, 17, 2761-2765.	11.1	94
7	A Self-Assembled 2D Thermofunctional Material for Radiative Cooling. <i>Small</i> , 2019, 15, e1905290.	5.2	83
8	Nonlinear dynamics and chaos in an optomechanical beam. <i>Nature Communications</i> , 2017, 8, 14965.	5.8	75
9	Observation of Resonant Behavior in the Energy Velocity of Diffused Light. <i>Physical Review Letters</i> , 2007, 99, 233902.	2.9	73
10	Highly-Scattering Cellulose-Based Films for Radiative Cooling. <i>Advanced Science</i> , 2022, 9, e2104758.	5.6	63
11	Resonant light transport through Mie modes in photonic glasses. <i>Physical Review A</i> , 2008, 78, .	1.0	62
12	Quantifying the Robustness of Topological Slow Light. <i>Physical Review Letters</i> , 2021, 126, 027403.	2.9	54
13	Density of states controls Anderson localization in disordered photonic crystal waveguides. <i>Physical Review B</i> , 2010, 82, .	1.1	47
14	Photonic crystals with controlled disorder. <i>Physical Review A</i> , 2011, 84, .	1.0	45
15	Probing the statistical properties of Anderson localization with quantum emitters. <i>New Journal of Physics</i> , 2011, 13, 063044.	1.2	40
16	Strong dispersive effects in the light-scattering mean free path in photonic gaps. <i>Physical Review B</i> , 2009, 79, .	1.1	36
17	Nonuniversal Intensity Correlations in a Two-Dimensional Anderson-Localizing Random Medium. <i>Physical Review Letters</i> , 2012, 109, 253902.	2.9	34
18	Quantum Dot Thin Layers Templated on ZnO Inverse Opals. <i>Advanced Materials</i> , 2006, 18, 2768-2772.	11.1	28

#	ARTICLE	IF	CITATIONS
19	Quantifying the intrinsic amount of fabrication disorder in photonic-crystal waveguides from optical far-field intensity measurements. Applied Physics Letters, 2013, 102, 031101.	1.5	28
20	Anderson Photon-Phonon Colocalization in Certain Random Superlattices. Physical Review Letters, 2019, 122, 043903.	2.9	28
21	Theory and experiments of disorder-induced resonance shifts and mode-edge broadening in deliberately disordered photonic crystal waveguides. Physical Review A, 2015, 92, .	1.0	25
22	Physics of Quantum Light Emitters in Disordered Photonic Nanostructures. Annalen Der Physik, 2017, 529, 1600351.	0.9	24
23	Coherent generation and detection of acoustic phonons in topological nanocavities. APL Photonics, 2019, 4, .	3.0	22
24	Mie resonances to tailor random lasers. Physical Review A, 2009, 80, .	1.0	20
25	Statistical measurements of quantum emitters coupled to Anderson-localized modes in disordered photonic-crystal waveguides. Optics Express, 2014, 22, 30992.	1.7	20
26	Tuning and optical study of the $\hat{\Gamma}$ X and $\hat{\Gamma}$ L photonic pseudogaps in opals. Applied Physics Letters, 2005, 87, 201109.	1.5	19
27	Two mechanisms of disorder-induced localization in photonic-crystal waveguides. Physical Review B, 2017, 96, .	1.1	19
28	Optomechanical coupling in the Anderson-localization regime. Physical Review B, 2017, 95, .	1.1	14
29	Self-sustained coherent phonon generation in optomechanical cavities. Journal of Optics (United Tj ETQq1 1 0.784314 rgBT /Overlo	1.0	12
30	Simulations of micro-sphere/shell 2D silica photonic crystals for radiative cooling. Optics Express, 2021, 29, 16857.	1.7	11
31	All-optical radio-frequency modulation of Anderson-localized modes. Physical Review B, 2018, 98, .	1.1	10
32	Optical study of $\hat{\Gamma}$ L high energy photonic pseudogaps in ZnO inverted opals. Journal of Applied Physics, 2006, 99, 046103.	1.1	9
33	From Bloch to random lasing in ZnO self-assembled nanostructures. Journal of Materials Chemistry C, 2013, 1, 7357.	2.7	8
34	Observation of slow light in glide-symmetric photonic-crystal waveguides. Optics Express, 2022, 30, 12565.	1.7	6
35	Opals for Photonic Band-Gap Applications. IEEE Journal of Selected Topics in Quantum Electronics, 2006, 12, 1143-1150.	1.9	3
36	Resonance-driven random lasers. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
37	Quantum Electrodynamics with Semiconductor Quantum Dots Coupled to Anderson-localized Random Cavities. , 2011, , .		0
38	Disorder-induced resonance shifts and mode edge broadening in photonic crystal waveguides. , 2014, , .		0
39	Anderson localization to enhance light-matter interaction (Conference Presentation). , 2016, , .		0