

Milena De Giorgi

List of Publications by Year in descending order

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125
papers

5,509
citations

94269

37
h-index

82410

72
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129
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129
docs citations

129
times ranked

6586
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and Micrometer-Scale Assembly of Colloidal CdSe/CdS Nanorods Prepared by a Seeded Growth Approach. <i>Nano Letters</i> , 2007, 7, 2942-2950.	4.5	1,098
2	All-optical polariton transistor. <i>Nature Communications</i> , 2013, 4, 1778.	5.8	409
3	Room-temperature superfluidity in a polariton condensate. <i>Nature Physics</i> , 2017, 13, 837-841.	6.5	250
4	CdSe/CdS/ZnS Double Shell Nanorods with High Photoluminescence Efficiency and Their Exploitation As Biolabeling Probes. <i>Journal of the American Chemical Society</i> , 2009, 131, 2948-2958.	6.6	247
5	Tetrapod-Shaped Colloidal Nanocrystals of II ^{VI} Semiconductors Prepared by Seeded Growth. <i>Journal of the American Chemical Society</i> , 2009, 131, 2274-2282.	6.6	211
6	Temperature and Size Dependence of Nonradiative Relaxation and Exciton-Phonon Coupling in Colloidal CdTe Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2007, 111, 5846-5849.	1.5	144
7	All-optical control of the quantum flow of a polariton condensate. <i>Nature Photonics</i> , 2011, 5, 610-614.	15.6	143
8	Blue-UV-Emitting ZnSe(Dot)/ZnS(Rod) Core/Shell Nanocrystals Prepared from CdSe/CdS Nanocrystals by Sequential Cation Exchange. <i>ACS Nano</i> , 2012, 6, 1637-1647.	7.3	138
9	Measurement of the quantum geometric tensor and of the anomalous Hall drift. <i>Nature</i> , 2020, 578, 381-385.	13.7	130
10	Polarized Light Emitting Diode by Long-Range Nanorod Self-Assembling on a Water Surface. <i>ACS Nano</i> , 2009, 3, 1506-1512.	7.3	127
11	Fluorescent Asymmetrically Cobalt-Tipped CdSe@CdS Core@Shell Nanorod Heterostructures Exhibiting Room-Temperature Ferromagnetic Behavior. <i>Journal of the American Chemical Society</i> , 2009, 131, 12817-12828.	6.6	119
12	Two-dimensional hybrid perovskites sustaining strong polariton interactions at room temperature. <i>Science Advances</i> , 2019, 5, eaav9967.	4.7	114
13	High-speed flow of interacting organic polaritons. <i>Light: Science and Applications</i> , 2017, 6, e16212-e16212.	7.7	101
14	Intrinsic optical nonlinearity in colloidal seeded grown CdSe/CdS nanostructures: Photoinduced screening of the internal electric field. <i>Physical Review B</i> , 2008, 78, .	1.1	91
15	Topological order and thermal equilibrium in polariton condensates. <i>Nature Materials</i> , 2018, 17, 145-151.	13.3	79
16	Photoconduction Properties in Aligned Assemblies of Colloidal CdSe/CdS Nanorods. <i>ACS Nano</i> , 2010, 4, 1646-1652.	7.3	73
17	Control and Ultrafast Dynamics of a Two-Fluid Polariton Switch. <i>Physical Review Letters</i> , 2012, 109, 266407.	2.9	69
18	Tunable Out-of-Plane Excitons in 2D Single-Crystal Perovskites. <i>ACS Photonics</i> , 2018, 5, 4179-4185.	3.2	67

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19	Ultrafast Control and Rabi Oscillations of Polaritons. <i>Physical Review Letters</i> , 2014, 113, 226401.	2.9	66
20	Capture and thermal re-emission of carriers in long-wavelength InGaAs/GaAs quantum dots. <i>Applied Physics Letters</i> , 2001, 79, 3968-3970.	1.5	64
21	Vortex and half-vortex dynamics in a nonlinear spinor quantum fluid. <i>Science Advances</i> , 2015, 1, e1500807.	4.7	57
22	First observation of the quantized exciton-polariton field and effect of interactions on a single polariton. <i>Science Advances</i> , 2018, 4, eaao6814.	4.7	57
23	Twist of generalized skyrmions and spin vortices in a polariton superfluid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 14926-14931.	3.3	56
24	Real-space collapse of a polariton condensate. <i>Nature Communications</i> , 2015, 6, 8993.	5.8	54
25	Toward Cavity Quantum Electrodynamics with Hybrid Photon Gap-Plasmon States. <i>ACS Nano</i> , 2016, 10, 11360-11368.	7.3	53
26	Design and synthesis of fluorenone-based dyes: two-photon excited fluorescent probes for imaging of lysosomes and mitochondria in living cells. <i>Journal of Materials Chemistry B</i> , 2015, 3, 3315-3323.	2.9	50
27	Nanoscale Study of the Tarnishing Process in Electron Beam Lithography-Fabricated Silver Nanoparticles for Plasmonic Applications. <i>Journal of Physical Chemistry C</i> , 2016, 120, 24314-24323.	1.5	49
28	Ultrastrong Plasmon-Exciton Coupling by Dynamic Molecular Aggregation. <i>ACS Photonics</i> , 2018, 5, 143-150.	3.2	48
29	Polarization shaping of Poincaré beams by polariton oscillations. <i>Light: Science and Applications</i> , 2015, 4, e350-e350.	7.7	47
30	Picosecond Photoluminescence Decay Time in Colloidal Nanocrystals: The Role of Intrinsic and Surface States. <i>Journal of Physical Chemistry C</i> , 2007, 111, 10541-10545.	1.5	46
31	Polariton-Induced Enhanced Emission from an Organic Dye under the Strong Coupling Regime. <i>Advanced Optical Materials</i> , 2014, 2, 1076-1081.	3.6	46
32	Interactions and scattering of quantum vortices in a polariton fluid. <i>Nature Communications</i> , 2018, 9, 1467.	5.8	46
33	Aging of Self-Assembled Lead Halide Perovskite Nanocrystal Superlattices: Effects on Photoluminescence and Energy Transfer. <i>ACS Nano</i> , 2021, 15, 650-664.	7.3	46
34	Optical properties of tetrapod-shaped CdTe nanocrystals. <i>Applied Physics Letters</i> , 2005, 87, 224101.	1.5	44
35	Tailoring chiro-optical effects by helical nanowire arrangement. <i>Nanoscale</i> , 2015, 7, 18081-18088.	2.8	43
36	Macroscopic Two-Dimensional Polariton Condensates. <i>Physical Review Letters</i> , 2017, 118, 215301.	2.9	43

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37	Exciton-Plasmon Coupling Enhancement via Metal Oxidation. ACS Nano, 2015, 9, 9691-9699.	7.3	39
38	Tuning of the Berry curvature in 2D perovskite polaritons. Nature Nanotechnology, 2021, 16, 1349-1354.	15.6	38
39	Graded vertical phase separation of donor/acceptor species for polymer solar cells. Solar Energy Materials and Solar Cells, 2012, 100, 147-152.	3.0	36
40	Relaxation Oscillations in the Formation of a Polariton Condensate. Physical Review Letters, 2014, 112, 113602.	2.9	36
41	Interaction and Coherence of a Plasmon-Exciton Polariton Condensate. ACS Photonics, 2018, 5, 3666-3672.	3.2	35
42	Room temperature Bloch surface wave polaritons. Optics Letters, 2014, 39, 2068.	1.7	32
43	Observation of Two Thresholds Leading to Polariton Condensation in 2D Hybrid Perovskites. Advanced Optical Materials, 2020, 8, 2000176.	3.6	32
44	Comparison of radiative and structural properties of 1.3 μm In _x Ga(1-x)As quantum-dot laser structures grown by metalorganic chemical vapor deposition and molecular-beam epitaxy: Effect on the lasing properties. Applied Physics Letters, 2003, 82, 3632-3634.	1.5	31
45	Emerging 2D materials for room-temperature polaritonics. Nanophotonics, 2019, 8, 1547-1558.	2.9	30
46	Energy levels and far-infrared absorption of multi-stacked dots. Physica E: Low-Dimensional Systems and Nanostructures, 2001, 11, 41-50.	1.3	27
47	Tunable single and dual mode operation of an external cavity quantum-dot injection laser. Journal Physics D: Applied Physics, 2003, 36, 1928-1930.	1.3	27
48	Long wavelength emission in In _x Ga(1-x)As quantum dot structures grown in a GaAs barrier by metalorganic chemical vapor deposition. Applied Physics Letters, 2004, 84, 1868-1870.	1.5	27
49	Enhanced Performances of Quantum Dot Lasers Operating at 1.3 μm . IEEE Journal of Selected Topics in Quantum Electronics, 2008, 14, 1188-1196.	1.9	26
50	Linear and Nonlinear Optical Properties of Single GaAs Nanowires with Polytypism. Journal of Physical Chemistry C, 2016, 120, 17046-17051.	1.5	26
51	Interpretation of phase and strain contrast of TEM images of In _x Ga(1-x)As/GaAs quantum dots. Physical Review B, 2001, 63, .	1.1	24
52	Josephson vortices induced by phase twisting a polariton superfluid. Nature Photonics, 2019, 13, 488-493.	15.6	22
53	Subpicosecond timescale carrier dynamics in GaInAsSb-AlGaAsSb double quantum wells emitting at 2.3 μm . Applied Physics Letters, 2008, 92, .	1.5	20
54	Structural and optical properties of vertically stacked triple InAs dot-in-well structure. Journal of Applied Physics, 2008, 103, .	1.1	20

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55	The polarization response in InAs quantum dots: theoretical correlation between composition and electronic properties. <i>Nanotechnology</i> , 2012, 23, 165202.	1.3	20
56	Managing Growth and Dimensionality of Quasi 2D Perovskite Single-Crystalline Flakes for Tunable Excitons Orientation. <i>Advanced Materials</i> , 2021, 33, e2102326.	11.1	20
57	High Q-factor colloidal nanocrystal-based vertical microcavity by hot embossing technology. <i>Applied Physics Letters</i> , 2006, 88, 181108.	1.5	19
58	Simultaneous filling of InAs quantum dot states from the GaAs barrier under nonresonant excitation. <i>Applied Physics Letters</i> , 2007, 90, 111907.	1.5	19
59	Applicability of the k -p method to modeling of InAs/GaSb short-period superlattices. <i>Physical Review B</i> , 2009, 79, .	1.1	19
60	The colored Hanbury Brown-Twiss effect. <i>Scientific Reports</i> , 2016, 6, 37980.	1.6	19
61	1.31 μm InGaAs quantum dot light-emitting diodes grown directly in a GaAs matrix by metalorganic chemical-vapor deposition. <i>Applied Physics Letters</i> , 2004, 84, 2482-2484.	1.5	18
62	Electrically injected InGaAs/GaAs quantum-dot microcavity light-emitting diode operating at 1.3 μm and grown by metalorganic chemical vapor deposition. <i>Applied Physics Letters</i> , 2004, 84, 4155-4157.	1.5	17
63	Temperature and Size Dependence of the Optical Properties of Tetrapod-Shaped Colloidal Nanocrystals Exhibiting Type-II Transitions. <i>Journal of Physical Chemistry C</i> , 2011, 115, 18094-18104.	1.5	17
64	Superluminal X-waves in a polariton quantum fluid. <i>Light: Science and Applications</i> , 2018, 7, 17119-17119.	7.7	17
65	Evidence of σ -crossed-transitions in dots-in-a-well structures through waveguide absorption measurements. <i>Applied Physics Letters</i> , 2008, 93, 151112.	1.5	15
66	Experimental investigation of a non-Abelian gauge field in 2D perovskite photonic platform. <i>Optica</i> , 2021, 8, 1442.	4.8	14
67	Linear increase of the modal gain in 1.3 μm InAs/GaAs quantum dot lasers containing up to seven-stacked QD layers. <i>Nanotechnology</i> , 2008, 19, 275401.	1.3	12
68	Self-Trapping of Exciton-Polariton Condensates in GaAs Microcavities. <i>Physical Review Letters</i> , 2019, 123, 047401.	2.9	12
69	Optical properties of colloidal nanocrystal spheres and tetrapods. <i>Microelectronics Journal</i> , 2005, 36, 552-554.	1.1	11
70	Interplay between stimulated emission and singlet-singlet annihilation in oligothiophene dioxide thin films. <i>Journal of Applied Physics</i> , 2006, 100, 023530.	1.1	11
71	Comparison between laser-induced nucleation of ZnS and CdS nanocrystals directly into polymer matrices. <i>Polymer Composites</i> , 2010, 31, 1075-1083.	2.3	11
72	Quantum hydrodynamics of a single particle. <i>Light: Science and Applications</i> , 2020, 9, 85.	7.7	11

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73	Exciton transitions in tetrapod-shaped CdTe nanocrystals investigated by photomodulated transmittance spectroscopy. <i>Applied Physics Letters</i> , 2006, 89, 094104.	1.5	10
74	Nanopositioning of colloidal nanocrystal emitters by means of photolithography and e-beam lithography. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 3972-3975.	0.7	10
75	One-step synthesis at room temperature of low dimensional perovskite single crystals with high optical quality. <i>Journal of Luminescence</i> , 2020, 221, 117079.	1.5	10
76	Sub-50nm Conjugated Polymer Dots by Nanoprinting. <i>Small</i> , 2008, 4, 1894-1899.	5.2	9
77	Type II transition in InSb-based nanostructures for midinfrared applications. <i>Journal of Applied Physics</i> , 2008, 103, 114516.	1.1	9
78	Control of unpolarized emission in closely stacked InAs quantum dot structure. <i>Superlattices and Microstructures</i> , 2010, 47, 72-77.	1.4	9
79	Enhancement of Parametric Effects in Polariton Waveguides Induced by Dipolar Interactions. <i>Physical Review Letters</i> , 2021, 126, 137401.	2.9	9
80	Nanoscale Compositional Fluctuations in Single InGaAs/GaAs Quantum Dots. <i>Physica Status Solidi (B): Basic Research</i> , 2001, 224, 17-20.	0.7	8
81	Improved Photostability in Fluorinated 2D Perovskite Single Crystals. <i>Nanomaterials</i> , 2021, 11, 465.	1.9	8
82	High circular dichroism and robust performance in planar plasmonic metamaterial made of nano-comma-shaped resonators. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, 3079.	0.9	8
83	Radiative recombination dynamics in tetrapod-shaped CdTe nanocrystals: Evidence for a photoinduced screening of the internal electric field. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	7
84	Avoiding trap states in poly(n-vinylcarbazole) thin films. <i>Organic Electronics</i> , 2012, 13, 2843-2849.	1.4	7
85	Correlation between shape and electronic states in nanostructures. <i>Micron</i> , 2000, 31, 245-251.	1.1	6
86	Time-resolved magnetospectroscopy of In _x Ga _{1-x} As/GaAs V-shaped quantum wires. <i>Physical Review B</i> , 2000, 61, 12658-12661.	1.1	6
87	Nonlinear Optical Effects with Polariton Lasers in a GaAs Microcavity. <i>Journal of Physical Chemistry C</i> , 2018, 122, 17501-17506.	1.5	6
88	Evidence for an internal field in CdSe/CdS nanorods by time resolved and single rod experiments. <i>Superlattices and Microstructures</i> , 2010, 47, 174-177.	1.4	5
89	Highly Reflective Periodic Nanostructure Based on Thermal Evaporated Tungsten Oxide and Calcium Fluoride for Advanced Photonic Applications. <i>ACS Applied Nano Materials</i> , 2020, 3, 10978-10985.	2.4	5
90	High-efficiency 1.31 μ m InGaAs/GaAs quantum-dot microcavity light-emitting diodes grown by metalorganic chemical vapor deposition. <i>Applied Physics Letters</i> , 2005, 86, 151118.	1.5	4

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91	Time resolved screening of the piezoelectric field in InGaAs/GaAs V-shaped quantum wires of variable profile. <i>Journal of Physics Condensed Matter</i> , 1999, 11, 5989-5997.	0.7	3
92	Electronic Levels and Recombination Lifetimes for Quantum Wires in a Magnetic Field. <i>Physica Status Solidi A</i> , 2000, 178, 239-242.	1.7	3
93	Effects of coupling on the structural properties of In _x Ga _{1-x} As/GaAs 1-D and 0-D self-organized quantum structures. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2001, 87, 256-261.	1.7	3
94	Determination of band-offset enhanced in InGaAsP/InGaAsP strained multi-quantum wells by photocurrent measurements. <i>Journal of Applied Physics</i> , 2005, 97, 043705.	1.1	3
95	Quantum dot nano-cavity emission tuned by a circular photonic crystal lattice. <i>Microelectronic Engineering</i> , 2007, 84, 1570-1573.	1.1	3
96	Tailoring the emission spectrum of colloidal nanocrystals by means of lithographically-imprinted hybrid vertical microcavities. , 2005, 5840, 168.		2
97	1.32 μ m InAs/InGaAs/GaAs quantum dot lasers operating at room temperature with low threshold current density. , 2006, , .		2
98	Fabrication of Colloidal Quantum Dot Microcavities by Imprint Lithography. , 2006, , .		2
99	High-Q factor single mode circular photonic crystal nano-resonator. <i>Superlattices and Microstructures</i> , 2008, 43, 507-511.	1.4	2
100	The influence of intrinsic and surface states on the emission properties of colloidal nanocrystals. <i>Superlattices and Microstructures</i> , 2008, 43, 528-531.	1.4	2
101	All-optical polariton transistor. , 2013, , .		2
102	Quantum Nature of Light in Nonstoichiometric Bulk Perovskites. <i>ACS Nano</i> , 2019, 13, 10711-10716.	7.3	2
103	Planar chiral plasmonic 2D metamaterial: Design and fabrication. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	2
104	Excitonic and Free Carrier Recombination in In _x Ga _{1-x} As/GaAs V-Shaped Quantum Wire for Different In Content. <i>Physica Status Solidi A</i> , 2000, 178, 243-248.	1.7	1
105	Light emission tuning of In _{0.5} Ga _{0.5} As/In _{0.05} Ga _{0.95} As quantum dots by a two-dimensional photonic crystal. <i>Microelectronic Engineering</i> , 2003, 67-68, 832-837.	1.1	1
106	Study of the exciton transitions in InGaAsP/InGaAsP MQWs to determine the band offset of the structure. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004, 1, 535-538.	0.8	1
107	Improved performances of 1.3 μ m InGaAs QD structures grown at high temperature by metal organic chemical vapour deposition. <i>Microelectronics Journal</i> , 2005, 36, 180-182.	1.1	1
108	An experimental setup for room temperature waveguide spectroscopy of self-assembled quantum dots. <i>Journal of Optics</i> , 2006, 8, S514-S517.	1.5	1

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109	Picosecond timescale carrier dynamics of InAs quantum dots: The role of a continuum background. Superlattices and Microstructures, 2008, 43, 445-448.	1.4	1
110	Understanding polarization properties of InAs quantum dots by atomistic modeling of growth dynamics. AIP Conference Proceedings, 2013, , .	0.3	1
111	Electron-Hole Dynamics in MOCVD-Grown InGaAs/GaAs Quantum Dots Emitting at 1.3 μ m. Physica Status Solidi A, 2002, 190, 561-564.	1.7	0
112	Open issues for lasing at 1.3 μ m in MOCVD-grown quantum dots. Physica Status Solidi (B): Basic Research, 2003, 238, 349-352.	0.7	0
113	Engineering the Electronic Structure and the Optical Properties of Semiconductor Quantum Dots. , 2003, , 1-50.		0
114	Tuning of long-wavelength emission in In _x Ga _{1-x} As quantum dot structures. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 23, 390-395.	1.3	0
115	InGaAs quantum dot structures grown in GaAs barrier by metal-organic chemical vapor deposition for high-efficient long-wavelength emission. , 2004, 5361, 44.		0
116	Photomodulated reflectance studies of quantum dot in MCLED structures: monitoring cavity-ground state exciton resonance. Microelectronics Journal, 2005, 36, 200-202.	1.1	0
117	Microphotoluminescence characterization of alloy fluctuations in InGaAsN/GaAs quantum wells emitting at 1.3 μ m. Semiconductor Science and Technology, 2006, 21, 1207-1211.	1.0	0
118	Photoreflectance symmetry and amplitude study of quantum dots in microcavity light emitting diode structure: The cavity-ground state exciton resonance. Journal of Applied Physics, 2007, 101, 024511.	1.1	0
119	Study of non radiative relaxation and exciton-phonon coupling in colloidal CdTe Quantum Dots. AIP Conference Proceedings, 2007, , .	0.3	0
120	Size Dependent Photomodulated Transmission Spectroscopy of CdTe Tetrapod-shaped Nanocrystals. AIP Conference Proceedings, 2007, , .	0.3	0
121	Study of the radiative recombination processes in tetrapod-shaped CdTe nanocrystals. , 2010, , .		0
122	Hydrodynamical phenomena in polariton condensates. , 2011, , .		0
123	Soliton and shock waves in an exciton polariton quantum pond. , 2013, , .		0
124	Polariton devices and quantum fluids. Proceedings of SPIE, 2014, , .	0.8	0
125	Pulse, polarization and topology shaping of polariton fluids. , 2017, , .		0