

Maria Dolores Martin

List of Publications by Year in descending order

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72
papers

1,380
citations

471061

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329751

37
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73
all docs

73
docs citations

73
times ranked

1232
citing authors

#	ARTICLE	IF	CITATIONS
1	Propagative Oscillations in Codirectional Polariton Waveguide Couplers. <i>Physical Review Letters</i> , 2021, 126, 075302.	2.9	12
2	Effects of the Linear Polarization of Polariton Condensates in Their Propagation in Codirectional Couplers. <i>ACS Photonics</i> , 2021, 8, 2489-2497.	3.2	2
3	Impact of the Energetic Landscape on Polariton Condensates' Propagation along a Coupler. <i>Advanced Optical Materials</i> , 2020, 8, 2000650.	3.6	6
4	On the remote coherence of polariton condensates in 1D microcavities: A photoluminescence study. <i>Journal of Luminescence</i> , 2020, 228, 117612.	1.5	0
5	Determination of Polariton Condensates' Critical Temperature. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1800519.	0.7	2
6	Counter-directional polariton coupler. <i>Applied Physics Letters</i> , 2019, 114, 061102.	1.5	7
7	Temperature dependence of the coherence in polariton condensates. <i>Physical Review B</i> , 2018, 97, .	1.1	3
8	Cavity polariton condensate in a disordered environment. <i>Physical Review B</i> , 2016, 93, .	1.1	11
9	Optical control of spin textures in quasi-one-dimensional polariton condensates. <i>Physical Review B</i> , 2015, 91, .	1.1	25
10	Spin selective filtering of polariton condensate flow. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	22
11	Single photon emission dynamics of InP-InGaP quantum dots under p-shell excitation. <i>Europhysics Letters</i> , 2014, 108, 17002.	0.7	0
12	Ignition and formation dynamics of a polariton condensate on a semiconductor microcavity pillar. <i>Physical Review B</i> , 2014, 90, .	1.1	5
13	Operation speed of polariton condensate switches gated by excitons. <i>Physical Review B</i> , 2014, 89, .	1.1	20
14	Quantum coherence in momentum space of light-matter condensates. <i>Physical Review B</i> , 2014, 90, .	1.1	8
15	Energy relaxation of exciton-polariton condensates in quasi-one-dimensional microcavities. <i>Physical Review B</i> , 2013, 88, .	1.1	30
16	Build up of off-diagonal long-range order in microcavity exciton-polaritons across the parametric threshold. <i>Optics Express</i> , 2013, 21, 10792.	1.7	8
17	Exciton recombination dynamics in single ZnO tetrapods. , 2013, , .		0
18	Quantum reflections and shunting of polariton condensate wave trains: Implementation of a logic AND gate. <i>Physical Review B</i> , 2013, 88, .	1.1	29

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19	Role of supercurrents on vortices formation in polariton condensates. Optics Express, 2012, 20, 16366.	1.7	17
20	Dynamics of a polariton condensate transistor switch. Applied Physics Letters, 2012, 101, .	1.5	36
21	Recombination dynamics of excitons and exciton complexes in single quantum dots. Europhysics Letters, 2012, 100, 67006.	0.7	8
22	Coherence properties of exciton polariton OPO condensates in one and two dimensions. New Journal of Physics, 2012, 14, 075018.	1.2	19
23	Dynamics of InPâˆ•(Ga,In)P quantum-dot single-photon emitters. , 2011, , .		0
24	Buildup and decay of the coherence in a polariton condensate. , 2011, , .		0
25	Motion of Spin Polariton Bullets in Semiconductor Microcavities. Physical Review Letters, 2011, 107, 146402.	2.9	51
26	Superfluidity in polariton condensates. Journal of Physics: Conference Series, 2010, 210, 012060.	0.3	2
27	Recombination dynamics of exciton and exciton complexes in single quantum dots. Journal of Physics: Conference Series, 2010, 210, 012014.	0.3	0
28	Effects of disorder on the polariton condensates in CdTe microcavities. , 2010, , .		0
29	Observation of a Long-Lived Polariton State in Semiconductor Microcavities. , 2010, , .		0
30	Observation of Quantum Hydrodynamic Effects in Microcavity Polaritons. , 2010, , .		0
31	Collective fluid dynamics of a polariton condensate in a semiconductor microcavity. Nature, 2009, 457, 291-295.	13.7	494
32	Carrier injection effects on exciton dynamics in GaAs/AlAs resonant-tunneling diodes. Europhysics Letters, 2009, 85, 67010.	0.7	4
33	Polariton relaxation after resonant pumping at the upper polariton branch under doublyâ€ resonant Raman scattering conditions. Physica Status Solidi (B): Basic Research, 2008, 245, 1081-1084.	0.7	0
34	Control of non-Markovian effects in the dynamics of polaritons in semiconductor microcavities. Physical Review B, 2008, 78, .	1.1	15
35	Resonant light transport through Mie modes in photonic glasses. Physical Review A, 2008, 78, .	1.0	62
36	Polariton and spin dynamics in semiconductor microcavities under non-resonant excitation. Journal of Physics Condensed Matter, 2007, 19, 295204.	0.7	12

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37	Photoluminescence dynamics in GaAs along an optically induced Mott transition. Journal of Applied Physics, 2007, 101, 081717.	1.1	20
38	Observation of Resonant Behavior in the Energy Velocity of Diffused Light. Physical Review Letters, 2007, 99, 233902.	2.9	73
39	Using Phonons to Populate the Bottom of the Polariton Dispersion Relation. AIP Conference Proceedings, 2007, , .	0.3	0
40	Spin-Dependent Strong- to Weak-Coupling Transition in Semiconductor Microcavities. AIP Conference Proceedings, 2007, , .	0.3	0
41	Polariton relaxation dynamics in semiconductor microcavities: Non-Markovian effects. AIP Conference Proceedings, 2007, , .	0.3	0
42	Spin-dependent coexistence of weakly coupled and strongly coupled modes in semiconductor microcavities. Superlattices and Microstructures, 2007, 41, 321-327.	1.4	0
43	Dynamics of polaritons resonantly created at the upper polariton branch. Superlattices and Microstructures, 2007, 41, 328-332.	1.4	7
44	Photoluminescence of σ^{\pm} -excitons in CdMnTe quantum well, embedded in a microcavity. Superlattices and Microstructures, 2007, 41, 386-391.	1.4	2
45	Optical anisotropy and pinning of the linear polarization of light in semiconductor microcavities. Solid State Communications, 2006, 139, 511-515.	0.9	77
46	Interplay of exciton and electron-hole plasma recombination on the photoluminescence dynamics in bulk GaAs. Physical Review B, 2006, 73, .	1.1	40
47	Dynamics of relaxation and trapping of excitons in $\text{Al}_x\text{Ga}_{1-x}\text{As}$ films. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 906-909.	0.8	0
48	Angular switching of the linear polarization of the emission in InGaAs microcavities. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 3868-3871.	0.8	5
49	Striking dynamics of II-VI microcavity polaritons after linearly polarized excitation. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 3880-3883.	0.8	6
50	Polarization dynamics of microcavity polaritons: Three excitation regimes. Physica Status Solidi (A) Applications and Materials Science, 2005, 202, 357-361.	0.8	3
51	Exciton Relaxation and Spin Dynamics in $\text{Al}_x\text{Ga}_{1-x}\text{As}$ Films. AIP Conference Proceedings, 2005, , .	0.3	0
52	Polarization of Light Emission in Semiconductor Microcavities: Dispersion Mapping. AIP Conference Proceedings, 2005, , .	0.3	0
53	Free and Bound Exciton Dynamics in Bulk II-VI Semiconductors. AIP Conference Proceedings, 2005, , .	0.3	0
54	Influence of trapping on the exciton dynamics of $\text{Al}_x\text{Ga}_{1-x}\text{As}$ films. Applied Physics Letters, 2005, 86, 111906.	1.5	5

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55	Coexistence of low threshold lasing and strong coupling in microcavities. <i>Journal of Applied Physics</i> , 2004, 95, 2487-2489.	1.1	29
56	Electron-polariton scattering, beneficial and detrimental effects. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004, 1, 1333-1338.	0.8	1
57	Detuning dependence of polariton spin dynamics. <i>Semiconductor Science and Technology</i> , 2004, 19, S365-S368.	1.0	4
58	Dynamics of Polariton Emission in the Linear Regime. <i>Acta Physica Polonica A</i> , 2004, 106, 443-450.	0.2	2
59	Electron-Polariton Scattering in Semiconductor Microcavities. <i>Physical Review Letters</i> , 2003, 90, 206401.	2.9	57
60	Dispersion mapping of spin-dependent polariton dynamics in CdTe microcavities. <i>Semiconductor Science and Technology</i> , 2003, 18, S368-S376.	1.0	4
61	Polarization Control of the Nonlinear Emission of Semiconductor Microcavities. <i>Physical Review Letters</i> , 2002, 89, 077402.	2.9	84
62	Polariton traps in semiconductor microcavities. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002, 13, 385-389.	1.3	5
63	Spin dynamics of cavity polaritons. <i>Solid State Communications</i> , 2001, 117, 267-271.	0.9	16
64	Ultrafast light-polarization dynamics in semiconductor microcavities. <i>Solid State Communications</i> , 2001, 119, 259-270.	0.9	4
65	Spin dynamics and spin-dependent interactions in semiconductor heterostructures. <i>Physica B: Condensed Matter</i> , 2001, 298, 376-383.	1.3	2
66	Ultrafast polarization switching in a CdTe microcavity. <i>Springer Proceedings in Physics</i> , 2001, , 667-668.	0.1	0
67	Polarization of magnetopolaritons in a semiconductor microcavity. <i>Springer Proceedings in Physics</i> , 2001, , 671-672.	0.1	0
68	Spin Polarization Dynamics in a Semiconductor Microcavity. <i>Physica Status Solidi A</i> , 2000, 178, 539-543.	1.7	3
69	Polaritonic coupling and spin dynamics in GaAs microcavities. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2000, 6, 169-172.	1.3	1
70	Carrier and light trapping in graded quantum-well laser structures. <i>Applied Physics Letters</i> , 2000, 76, 3540-3542.	1.5	8
71	On the Spin-Flip Mechanisms of Electrons in Semiconductor Quantum Wells. <i>Physica Status Solidi (B): Basic Research</i> , 1999, 215, 229-233.	0.7	9
72	Many body effects on the spin relaxation of electrons in GaAs quantum wells. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 1998, 2, 186-190.	1.3	3