

Maria Dolores Martin

List of Publications by Year in descending order

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72
papers

1,380
citations

471061

17
h-index

329751

37
g-index

73
all docs

73
docs citations

73
times ranked

1232
citing authors

#	ARTICLE	IF	CITATIONS
1	Collective fluid dynamics of a polariton condensate in a semiconductor microcavity. <i>Nature</i> , 2009, 457, 291-295.	13.7	494
2	Polarization Control of the Nonlinear Emission of Semiconductor Microcavities. <i>Physical Review Letters</i> , 2002, 89, 077402.	2.9	84
3	Optical anisotropy and pinning of the linear polarization of light in semiconductor microcavities. <i>Solid State Communications</i> , 2006, 139, 511-515.	0.9	77
4	Observation of Resonant Behavior in the Energy Velocity of Diffused Light. <i>Physical Review Letters</i> , 2007, 99, 233902.	2.9	73
5	Resonant light transport through Mie modes in photonic glasses. <i>Physical Review A</i> , 2008, 78, .	1.0	62
6	Electron-Polariton Scattering in Semiconductor Microcavities. <i>Physical Review Letters</i> , 2003, 90, 206401.	2.9	57
7	Motion of Spin Polariton Bullets in Semiconductor Microcavities. <i>Physical Review Letters</i> , 2011, 107, 146402.	2.9	51
8	Interplay of exciton and electron-hole plasma recombination on the photoluminescence dynamics in bulk GaAs. <i>Physical Review B</i> , 2006, 73, .	1.1	40
9	Dynamics of a polariton condensate transistor switch. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	36
10	Energy relaxation of exciton-polariton condensates in quasi-one-dimensional microcavities. <i>Physical Review B</i> , 2013, 88, .	1.1	30
11	Coexistence of low threshold lasing and strong coupling in microcavities. <i>Journal of Applied Physics</i> , 2004, 95, 2487-2489.	1.1	29
12	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
13	Optical control of spin textures in quasi-one-dimensional polariton condensates. <i>Physical Review B</i> , 2015, 91, .	1.1	25
14	Spin selective filtering of polariton condensate flow. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	22
15	Photoluminescence dynamics in GaAs along an optically induced Mott transition. <i>Journal of Applied Physics</i> , 2007, 101, 081717.	1.1	20
16	Operation speed of polariton condensate switches gated by excitons. <i>Physical Review B</i> , 2014, 89, .	1.1	20
17	Coherence properties of exciton polariton OPO condensates in one and two dimensions. <i>New Journal of Physics</i> , 2012, 14, 075018.	1.2	19
18	Role of supercurrents on vortices formation in polariton condensates. <i>Optics Express</i> , 2012, 20, 16366.	1.7	17

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19	Spin dynamics of cavity polaritons. Solid State Communications, 2001, 117, 267-271.	0.9	16
20	Control of non-Markovian effects in the dynamics of polaritons in semiconductor microcavities. Physical Review B, 2008, 78, .	1.1	15
21	Polariton and spin dynamics in semiconductor microcavities under non-resonant excitation. Journal of Physics Condensed Matter, 2007, 19, 295204.	0.7	12
22	Propagative Oscillations in Codirectional Polariton Waveguide Couplers. Physical Review Letters, 2021, 126, 075302.	2.9	12
23	Cavity polariton condensate in a disordered environment. Physical Review B, 2016, 93, .	1.1	11
24	On the Spin-Flip Mechanisms of Electrons in Semiconductor Quantum Wells. Physica Status Solidi (B): Basic Research, 1999, 215, 229-233.	0.7	9
25	Carrier and light trapping in graded quantum-well laser structures. Applied Physics Letters, 2000, 76, 3540-3542.	1.5	8
26	Recombination dynamics of excitons and exciton complexes in single quantum dots. Europhysics Letters, 2012, 100, 67006.	0.7	8
27	Build up of off-diagonal long-range order in microcavity exciton-polaritons across the parametric threshold. Optics Express, 2013, 21, 10792.	1.7	8
28	Quantum coherence in momentum space of light-matter condensates. Physical Review B, 2014, 90, .	1.1	8
29	Dynamics of polaritons resonantly created at the upper polariton branch. Superlattices and Microstructures, 2007, 41, 328-332.	1.4	7
30	Counter-directional polariton coupler. Applied Physics Letters, 2019, 114, 061102.	1.5	7
31	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
32	Impact of the Energetic Landscape on Polariton Condensates' Propagation along a Coupler. Advanced Optical Materials, 2020, 8, 2000650.	3.6	6
33	Polariton traps in semiconductor microcavities. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 13, 385-389.	1.3	5
34	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
35	Influence of trapping on the exciton dynamics of Al _x Ga _{1-x} As films. Applied Physics Letters, 2005, 86, 111906.	1.5	5
36	Ignition and formation dynamics of a polariton condensate on a semiconductor microcavity pillar. Physical Review B, 2014, 90, .	1.1	5

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37	Ultrafast light-polarization dynamics in semiconductor microcavities. <i>Solid State Communications</i> , 2001, 119, 259-270.	0.9	4
38	Dispersion mapping of spin-dependent polariton dynamics in CdTe microcavities. <i>Semiconductor Science and Technology</i> , 2003, 18, S368-S376.	1.0	4
39	Detuning dependence of polariton spin dynamics. <i>Semiconductor Science and Technology</i> , 2004, 19, S365-S368.	1.0	4
40	Carrier injection effects on exciton dynamics in GaAs/AlAs resonant-tunneling diodes. <i>Europhysics Letters</i> , 2009, 85, 67010.	0.7	4
41	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
42	Spin Polarization Dynamics in a Semiconductor Microcavity. <i>Physica Status Solidi A</i> , 2000, 178, 539-543.	1.7	3
43	Polarization dynamics of microcavity polaritons: Three excitation regimes. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2005, 202, 357-361.	0.8	3
44	Temperature dependence of the coherence in polariton condensates. <i>Physical Review B</i> , 2018, 97, .	1.1	3
45	Spin dynamics and spin-dependent interactions in semiconductor heterostructures. <i>Physica B: Condensed Matter</i> , 2001, 298, 376-383.	1.3	2
46	Photoluminescence of "dark" excitons in CdMnTe quantum well, embedded in a microcavity. <i>Superlattices and Microstructures</i> , 2007, 41, 386-391.	1.4	2
47	Superfluidity in polariton condensates. <i>Journal of Physics: Conference Series</i> , 2010, 210, 012060.	0.3	2
48	Determination of Polariton Condensates' Critical Temperature. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1800519.	0.7	2
49	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
50	Dynamics of Polariton Emission in the Linear Regime. <i>Acta Physica Polonica A</i> , 2004, 106, 443-450.	0.2	2
51	Polaritonic coupling and spin dynamics in GaAs microcavities. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2000, 6, 169-172.	1.3	1
52	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
53	Dynamics of relaxation and trapping of excitons in Al _x Ga _{1-x} As films. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005, 2, 906-909.	0.8	0
54	Exciton Relaxation and Spin Dynamics in Al _x Ga _{1-x} As Films. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	0

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55	Polarization of Light Emission in Semiconductor Microcavities: Dispersion Mapping. AIP Conference Proceedings, 2005, , .	0.3	0
56	Free and Bound Exciton Dynamics in Bulk II-VI Semiconductors. AIP Conference Proceedings, 2005, , .	0.3	0
57	Using Phonons to Populate the Bottom of the Polariton Dispersion Relation. AIP Conference Proceedings, 2007, , .	0.3	0
58	Spin-Dependent Strong- to Weak-Coupling Transition in Semiconductor Microcavities. AIP Conference Proceedings, 2007, , .	0.3	0
59	Polariton relaxation dynamics in semiconductor microcavities: Non-Markovian effects. AIP Conference Proceedings, 2007, , .	0.3	0
60	Spin-dependent coexistence of weakly coupled and strongly coupled modes in semiconductor microcavities. Superlattices and Microstructures, 2007, 41, 321-327.	1.4	0
61	Polariton relaxation after resonant pumping at the upper polariton branch under doubly resonant Raman scattering conditions. Physica Status Solidi (B): Basic Research, 2008, 245, 1081-1084.	0.7	0
62	Recombination dynamics of exciton and exciton complexes in single quantum dots. Journal of Physics: Conference Series, 2010, 210, 012014.	0.3	0
63	Effects of disorder on the polariton condensates in CdTe microcavities. , 2010, , .		0
64	Observation of a Long-Lived Polariton State in Semiconductor Microcavities. , 2010, , .		0
65	Observation of Quantum Hydrodynamic Effects in Microcavity Polaritons. , 2010, , .		0
66	Dynamics of InP/(Ga,In)P quantum-dot single-photon emitters. , 2011, , .		0
67	Buildup and decay of the coherence in a polariton condensate. , 2011, , .		0
68	Exciton recombination dynamics in single ZnO tetrapods. , 2013, , .		0
69	Single photon emission dynamics of InP-InGaP quantum dots under p-shell excitation. Europhysics Letters, 2014, 108, 17002.	0.7	0
70	On the remote coherence of polariton condensates in 1D microcavities: A photoluminescence study. Journal of Luminescence, 2020, 228, 117612.	1.5	0
71	Ultrafast polarization switching in a CdTe microcavity. Springer Proceedings in Physics, 2001, , 667-668.	0.1	0
72	Polarization of magnetopolaritons in a semiconductor microcavity. Springer Proceedings in Physics, 2001, , 671-672.	0.1	0