Catherine Gourdon

List of Publications by Year
in descending order

81	1,973	304743 22	254184 43
papers	citations	h-index	g-index

82	82	82	1928
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Exploring the shear strain contribution to the uniaxial magnetic anisotropy of (Ga,Mn)As. Journal of Applied Physics, 2020, 127, 093901.	2.5	1
2	Time- and space-resolved nonlinear magnetoacoustic dynamics. Physical Review B, 2020, 101, .	3.2	7
3	The 2019 surface acoustic waves roadmap. Journal Physics D: Applied Physics, 2019, 52, 353001.	2.8	236
4	Field-Free Magnetization Switching by an Acoustic Wave. Physical Review Applied, 2019, 11, .	3.8	33
5	Dark-bright exciton coupling in asymmetric quantum dots. Physical Review B, 2018, 98, .	3.2	10
6	Optical Probing of Rayleigh Wave Driven Magnetoacoustic Resonance. Physical Review Applied, 2018, 10, .	3.8	21
7	Resonant magneto-acoustic switching: influence of Rayleigh wave frequency and wavevector. Journal of Physics Condensed Matter, 2018, 30, 244003.	1.8	24
8	Magneto-optical Kerr spectroscopy of (Ga,Mn)(As,P) ferromagnetic layers: Experiments and k.p theory. Journal of Applied Physics, 2017, 121, 125702.	2.5	8
9	Spin transfer and spin-orbit torques in in-plane magnetized (Ga,Mn)As tracks. Physical Review B, 2017, 95, .	3.2	11
10	Counter-rotating standing spin waves: A magneto-optical illusion. Physical Review B, 2017, 95, .	3.2	9
11	Laboratory X-ray characterization of a surface acoustic wave on GaAs: the critical role of instrumental convolution. Journal of Applied Crystallography, 2016, 49, 2073-2081.	4.5	4
12	Steady-state thermal gradient induced by pulsed laser excitation in a ferromagnetic layer. Journal of Applied Physics, 2016, 119, .	2.5	4
13	Precessional magnetization switching by a surface acoustic wave. Physical Review B, 2016, 93, .	3.2	67
14	Strong reduction of the coercivity by a surface acoustic wave in an out-of-plane magnetized epilayer. Physical Review B, 2016, 93, .	3.2	36
15	Optimizing magneto-optical effects in the ferromagnetic semiconductor GaMnAs. Journal of Magnetism and Magnetic Materials, 2015, 395, 340-344.	2.3	11
16	Systematic study of the spin stiffness dependence on phosphorus alloying in the ferromagnetic semiconductor (Ga,Mn)As. Applied Physics Letters, 2015, 106, .	3.3	16
17	Surface-acoustic-wave-driven ferromagnetic resonance in (Ga,Mn)(As,P) epilayers. Physical Review B, 2014, 90, .	3.2	85
18	Domain-wall flexing instability and propagation in thin ferromagnetic films. Physical Review B, 2013, 88, .	3.2	5

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19	Annealing effect on the magnetization reversal and Curie temperature in a GaMnAs layer. Journal of Magnetism and Magnetic Materials, 2013, 342, 149-151.	2.3	5
20	Irreversible magnetization switching using surface acoustic waves. Physical Review B, 2013, 87, .	3.2	72
21	The influence of phosphorus content on magnetic anisotropy in ferromagnetic (Ga, Mn) (As, P)/GaAs thin films. Journal of Physics Condensed Matter, 2013, 25, 346001.	1.8	7
22	Fast domain wall dynamics in MnAs/GaAs films. Applied Physics Letters, 2012, 101, 072408.	3.3	5
23	High domain wall velocities in in-plane magnetized (Ga,Mn)(As,P) layers. Physical Review B, 2012, 85, .	3.2	11
24	The influence of the epitaxial strain on the magnetic anisotropy in ferromagnetic (Ga,Mn)(As,P)/GaAs thin films. Journal of Applied Physics, 2012, 111, .	2.5	6
25	Magnetic domain pattern asymmetry in (Ga, Mn)As/(Ga,In)As with in-plane anisotropy. Journal of Applied Physics, 2012, 111, 083908.	2.5	1
26	Domain wall propagation in ferromagnetic semiconductors: Beyond the one-dimensional model. Physical Review B, 2011, 83, .	3.2	19
27	Exchange constant and domain wall width in (Ga,Mn)(As,P) films with self-organization of magnetic domains. Physical Review B, 2010, 82, .	3.2	32
28	Effect of picosecond strain pulses on thin layers of the ferromagnetic semiconductor (Ga,Mn)(As,P). Physical Review B, 2010, 82, .	3.2	47
29	Unusual domain-wall motion in ferromagnetic semiconductor films with tetragonal anisotropy. Physical Review B, 2009, 80, .	3.2	3
30	Experimental determination of domain wall width and spin stiffness constant in ferromagnetic (Ga,Mn)As with perpendicular easy axis. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1848-1850.	2.7	2
31	Field-driven domain-wall dynamics in (Ga,Mn)As films with perpendicular anisotropy. Physical Review B, 2008, 78, .	3.2	40
32	Strain control of the magnetic anisotropy in (Ga,Mn) (As,P) ferromagnetic semiconductor layers. Applied Physics Letters, 2008, 93, .	3.3	61
33	Domain structure and magnetic anisotropy fluctuations in (Ga,Mn)As: Effect of annealing. Journal of Applied Physics, 2007, 102, .	2.5	24
34	Pattern formation in type-I superconducting films. Journal of Applied Physics, 2007, 101, 09G118.	2.5	2
35	Determination of the micromagnetic parameters in (Ga,Mn)As using domain theory. Physical Review B, 2007, 76, .	3.2	30
36	Expansion and Collapse of Domains With Reverse Magnetization in (Ga,Mn)As Epilayers With Perpendicular Magnetic Easy Axis. IEEE Transactions on Magnetics, 2007, 43, 3022-3024.	2.1	3

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37	Domain Wall Dynamics in Annealed GaMnAs Epilayers. Journal of Superconductivity and Novel Magnetism, 2007, 20, 453-455.	1.8	4
38	(Ga,Mn)As layers with perpendicular anisotropy: a study of magnetic domain patterns. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 4074-4077.	0.8	3
39	Stability of normal state bubbles in the intermediate state of type I superconductors. Journal of Magnetism and Magnetic Materials, 2006, 300, 101-103.	2.3	1
40	Instability-driven formation of domains in the intermediate state of type-I superconductors. Europhysics Letters, 2006, 75, 482-488.	2.0	4
41	Nucleation and Collapse of the Superconducting Phase in Type-I Superconducting Films. Physical Review Letters, 2006, 96, 087002.	7.8	15
42	Normal-state bubbles and lamellae in type-I superconductors. Physical Review B, 2005, 72, .	3.2	27
43	Impeded Growth of Magnetic Flux Bubbles in the Intermediate State Pattern of TypeÂI Superconductors. Physical Review Letters, 2004, 92, 147001.	7.8	20
44	Novel Magneto-Optic Layers Based on Semiconductor Nanostructures for Kerr Microscopy.. Materials Research Society Symposia Proceedings, 2004, 834, 215.	0.1	0
45	Transformation from flux tube to labyrinthine stripe pattern in the intermediate state of superconducting Indium. Physica C: Superconductivity and Its Applications, 2003, 388-389, 775-776.	1.2	1
46	Magneto-optical imaging with diluted magnetic semiconductor quantum wells. Applied Physics Letters, 2003, 82, 230-232.	3.3	20
47	Enhanced Magneto-Optical Kerr Rotation in CdMnTe Quantum Wells Embedded in an Optical Cavity. Physica Status Solidi A, 2002, 190, 431-434.	1.7	3
48	Enhanced Faraday rotation in CdMnTe quantum wells embedded in an optical cavity. Solid State Communications, 2002, 123, 299-304.	1.9	13
49	AlAs monolayer dependence of the radiative recombination rate in a type II GaAsâ€“AlAs double quantum well. Solid State Communications, 2000, 114, 389-394.	1.9	3
50	AlAs-monolayer dependence of theÎ“â^'Xcoupling in GaAs-AlAs type-II heterostructures. Physical Review B, 2000, 62, 16856-16869.	3.2	6
51	Fundamental and Nonlinear Optical Properties of Semiconductor Mesoscopic Particles. Springer Series in Cluster Physics, 1999, , 31-46.	0.3	1
52	Photoluminescence internal quantum yield in superlattices. Superlattices and Microstructures, 1998, 23, 211-217.	3.1	1
53	Spectroscopic evidence of the dissymmetry of direct and inverted interfaces in GaAs/AlAs type-II superlattices. Physical Review B, 1998, 57, 3955-3960.	3.2	15
54	Exciton quantum beats in type-II GaAs/AlAs superlattices in longitudinal and in-plane magnetic fields. Physical Review B, 1997, 55, 13761-13770.	3.2	22

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55	Enhancement of electron-hole exchange interaction in CdSe nanocrystals: A quantum confinement effect. Physical Review B, 1996, 53, 1336-1342.	3.2	153
56	Electronic Structure of O-D Exciton Ground State in CdSe Nanocrystals. Materials Research Society Symposia Proceedings, 1996, 452, 341.	0.1	3
57	Power nonlinearities in the luminescence spectrum of superlattices. Solid State Communications, 1996, 99, 387-391.	1.9	0
58	Photoluminescence quantum yield in superlattices. Solid-State Electronics, 1996, 40, 687-691.	1.4	3
59	Photoluminescence polarization of semiconductor nanocrystals. Journal of Luminescence, 1996, 70, 222-237.	3.1	50
60	Size-dependent electron-hole exchange interaction in CdSe quantum dots. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1995, 17, 1407-1412.	0.4	4
61	Polaron and Exciton-Phonon Complexes in CuCl Nanocrystals. Physical Review Letters, 1995, 74, 1645-1648.	7.8	88
62	Enhancement of Exciton Exchange Interaction by Quantum Confinement in CdSe Nanocrystals. Japanese Journal of Applied Physics, 1995, 34, 12.	1.5	30
63	Optical pumping in CdS1-xSexnanocrystals. Semiconductor Science and Technology, 1993, 8, 1868-1874.	2.0	9
64	Anisotropic exciton states in GaAs/AlAs superlattices in zero and non-zero magnetic field. European Physical Journal Special Topics, 1993, 03, 183-186.	0.2	5
65	Fine structure of heavy excitons in GaAs/AlAs superlattices. Physical Review B, 1992, 46, 4644-4650.	3.2	55
66	Photoluminescence polarization properties of CdSxSe1â^'x nanocrystals in glasses: evidence for hexagonal structure. Journal of Crystal Growth, 1992, 117, 614-616.	1.5	6
67	Selective excitation of nanocrystals by polarized light. Solid State Communications, 1992, 84, 967-970.	1.9	9
68	Interface induced anisotropic splitting of exciton states in short period superlattices. Superlattices and Microstructures, 1992, 12, 321-325.	3.1	7
69	Polarization quantum beats between sublevels of the heavy exciton in GaAs/AlAs superlattices. Journal of Luminescence, 1992, 53, 367-370.	3.1	2
70	Comments on 'Femtosecond optical nonlinearities of CdSe quantum dots' by N. Peyghambarian et al. IEEE Journal of Quantum Electronics, 1991, 27, 1105-1106.	1.9	3
71	Density of States and Wave Function of Excitons Localized by Alloy Potential Fluctuations in Semiconductor Solid Solutions. Physica Status Solidi (B): Basic Research, 1991, 166, 433-437.	1.5	1
72	Exciton transfer between localized states in CdS1-xSex alloys: Time-resolved photoluminescence and theoretical models. Journal of Crystal Growth, 1990, 101, 767-772.	1.5	9

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73	Hidden anisotropy of localized exciton states in short period GaAs/AlAs superlattices. Solid State Communications, 1990, 74, 1057-1061.	1.9	22
74	Size-dependent radiative decay time of confined excitons in CuCl microcrystals. Solid State Communications, 1990, 73, 271-274.	1.9	158
75	Exciton Transfer between Localized States in CdS_{1â€“x}Se_x Alloys. Physica Status Solidi (B): Basic Research, 1989, 153, 641-652.	1.5	187
76	Evidence for persistence of free and impurity-bound excitons in Se rich CdS1â^'xSex alloys. Journal of Luminescence, 1988, 39, 269-274.	3.1	4
77	Time dynamics of free- and bound-exciton luminescence in CdSe under low- and high-intensity excitation. Physical Review B, 1988, 37, 2589-2593.	3.2	9
78	Picosecond time-resolved luminescence of localized excitons in CdS1-xSex. Journal of Luminescence, 1987, 39, 111-116.	3.1	18
79	STUDY OF VERTICAL TRANSPORT IN A SUPERLATTICE GaAs/AlAs BY TIME-RESOLVED PHOTOLUMINESCENCE. Journal De Physique Colloque, 1987, 48, C5-471-C5-474.	0.2	5
80	Comments on â€œTransmission and Damping of Excitonic Polaritons in CdSâ€•by I. Broser, K.â€H. Pantke, and M. Rosenzweig. Physica Status Solidi (B): Basic Research, 1986, 138, K29.	1.5	3
81	Ellipsometry and transient reflectivity near the excitonic resonance in CdSe. Physical Review B, 1985, 31, 6654-6659.	3.2	13