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	The 2019 surface acoustic waves roadmap. Journal Physics D: Applied Physics, 2019, 52, 353001.	2.8	236
2	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
3	Size-dependent radiative decay time of confined excitons in CuCl microcrystals. Solid State Communications, 1990, 73, 271-274.	1.9	158
4	Enhancement of electron-hole exchange interaction in CdSe nanocrystals: A quantum confinement effect. Physical Review B, 1996, 53, 1336-1342.	3.2	153
5	Polaron and Exciton-Phonon Complexes in CuCl Nanocrystals. Physical Review Letters, 1995, 74, 1645-1648.	7.8	88
6	Surface-acoustic-wave-driven ferromagnetic resonance in (Ga,Mn)(As,P) epilayers. Physical Review B, 2014, 90, .	3.2	85
7	Irreversible magnetization switching using surface acoustic waves. Physical Review B, 2013, 87, .	3.2	72
8	Precessional magnetization switching by a surface acoustic wave. Physical Review B, 2016, 93, .	3.2	67
9	Strain control of the magnetic anisotropy in (Ga,Mn) (As,P) ferromagnetic semiconductor layers. Applied Physics Letters, 2008, 93, .	3.3	61
10	Fine structure of heavy excitons in GaAs/AlAs superlattices. Physical Review B, 1992, 46, 4644-4650.	3.2	55
11	Photoluminescence polarization of semiconductor nanocrystals. Journal of Luminescence, 1996, 70, 222-237.	3.1	50
12	Effect of picosecond strain pulses on thin layers of the ferromagnetic semiconductor (Ga,Mn)(As,P). Physical Review B, 2010, 82, .	3.2	47
13	Field-driven domain-wall dynamics in (Ga,Mn)As films with perpendicular anisotropy. Physical Review B, 2008, 78, .	3.2	40
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	Field-Free Magnetization Switching by an Acoustic Wave. Physical Review Applied, 2019, 11, .	3.8	33
16	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
17	Enhancement of Exciton Exchange Interaction by Quantum Confinement in CdSe Nanocrystals. Japanese Journal of Applied Physics, 1995, 34, 12.	1.5	30
18	Determination of the micromagnetic parameters in (Ga,Mn)As using domain theory. Physical Review B, 2007, 76, .	3.2	30

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19	Normal-state bubbles and lamellae in type-I superconductors. Physical Review B, 2005, 72, .	3.2	27
20	Domain structure and magnetic anisotropy fluctuations in (Ga,Mn)As: Effect of annealing. Journal of Applied Physics, 2007, 102, .	2.5	24
21	Resonant magneto-acoustic switching: influence of Rayleigh wave frequency and wavevector. Journal of Physics Condensed Matter, 2018, 30, 244003.	1.8	24
22	Hidden anisotropy of localized exciton states in short period GaAs/AlAs superlattices. Solid State Communications, 1990, 74, 1057-1061.	1.9	22
23	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
24	Optical Probing of Rayleigh Wave Driven Magnetoacoustic Resonance. Physical Review Applied, 2018, 10, .	3.8	21
25	Magneto-optical imaging with diluted magnetic semiconductor quantum wells. Applied Physics Letters, 2003, 82, 230-232.	3.3	20
26	Impeded Growth of Magnetic Flux Bubbles in the Intermediate State Pattern of TypeÂI Superconductors. Physical Review Letters, 2004, 92, 147001.	7.8	20
27	Domain wall propagation in ferromagnetic semiconductors: Beyond the one-dimensional model. Physical Review B, 2011, 83, .	3.2	19
28	Picosecond time-resolved luminescence of localized excitons in CdS1-xSex. Journal of Luminescence, 1987, 39, 111-116.	3.1	18
29	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
30	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
31	Nucleation and Collapse of the Superconducting Phase in Type-I Superconducting Films. Physical Review Letters, 2006, 96, 087002.	7.8	15
32	Ellipsometry and transient reflectivity near the excitonic resonance in CdSe. Physical Review B, 1985, 31, 6654-6659.	3.2	13
33	Enhanced Faraday rotation in CdMnTe quantum wells embedded in an optical cavity. Solid State Communications, 2002, 123, 299-304.	1.9	13
34	High domain wall velocities in in-plane magnetized (Ga,Mn)(As,P) layers. Physical Review B, 2012, 85, .	3.2	11
35	Optimizing magneto-optical effects in the ferromagnetic semiconductor GaMnAs. Journal of Magnetism and Magnetic Materials, 2015, 395, 340-344.	2.3	11
36	Spin transfer and spin-orbit torques in in-plane magnetized (Ga,Mn)As tracks. Physical Review B, 2017, 95, .	3.2	11

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37	Dark-bright exciton coupling in asymmetric quantum dots. Physical Review B, 2018, 98, .	3.2	10
38	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
39	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
40	Selective excitation of nanocrystals by polarized light. Solid State Communications, 1992, 84, 967-970.	1.9	9
41	Optical pumping in CdS1-xSexnanocrystals. Semiconductor Science and Technology, 1993, 8, 1868-1874.	2.0	9
42	Counter-rotating standing spin waves: A magneto-optical illusion. Physical Review B, 2017, 95, .	3.2	9
43	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
44	Interface induced anisotropic splitting of exciton states in short period superlattices. Superlattices and Microstructures, 1992, 12, 321-325.	3.1	7
45	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
46	Time- and space-resolved nonlinear magnetoacoustic dynamics. Physical Review B, 2020, 101, .	3.2	7
47	Photoluminescence polarization properties of CdSxSe1âˆ’x nanocrystals in glasses: evidence for hexagonal structure. Journal of Crystal Growth, 1992, 117, 614-616.	1.5	6
48	AlAs-monolayer dependence of theÎ“âˆ’Xcoupling in GaAs-AlAs type-II heterostructures. Physical Review B, 2000, 62, 16856-16869.	3.2	6
49	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
50	Fast domain wall dynamics in MnAs/GaAs films. Applied Physics Letters, 2012, 101, 072408.	3.3	5
51	Domain-wall flexing instability and propagation in thin ferromagnetic films. Physical Review B, 2013, 88, .	3.2	5
52	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
53	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
54	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

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55	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
56	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
57	Instability-driven formation of domains in the intermediate state of type-I superconductors. Europhysics Letters, 2006, 75, 482-488.	2.0	4
58	Domain Wall Dynamics in Annealed GaMnAs Epilayers. Journal of Superconductivity and Novel Magnetism, 2007, 20, 453-455.	1.8	4
59	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
60	Steady-state thermal gradient induced by pulsed laser excitation in a ferromagnetic layer. Journal of Applied Physics, 2016, 119, .	2.5	4
61	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
62	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
63	Electronic Structure of O-D Exciton Ground State in CdSe Nanocrystals. Materials Research Society Symposia Proceedings, 1996, 452, 341.	0.1	3
64	Photoluminescence quantum yield in superlattices. Solid-State Electronics, 1996, 40, 687-691.	1.4	3
65	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
66	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
67	(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
68	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
69	Unusual domain-wall motion in ferromagnetic semiconductor films with tetragonal anisotropy. Physical Review B, 2009, 80, .	3.2	3
70	Polarization quantum beats between sublevels of the heavy exciton in GaAs/AlAs superlattices. Journal of Luminescence, 1992, 53, 367-370.	3.1	2
71	Pattern formation in type-I superconducting films. Journal of Applied Physics, 2007, 101, 09G118.	2.5	2
72	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

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73	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
74	Photoluminescence internal quantum yield in superlattices. Superlattices and Microstructures, 1998, 23, 211-217.	3.1	1
75	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
76	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
77	Exploring the shear strain contribution to the uniaxial magnetic anisotropy of (Ga,Mn)As. Journal of Applied Physics, 2020, 127, 093901.	2.5	1
78	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
79	Fundamental and Nonlinear Optical Properties of Semiconductor Mesoscopic Particles. Springer Series in Cluster Physics, 1999, , 31-46.	0.3	1
80	Power nonlinearities in the luminescence spectrum of superlattices. Solid State Communications, 1996, 99, 387-391.	1.9	0
81	Novel Magneto-Optic Layers Based on Semiconductor Nanostructures for Kerr Microscopy.. Materials Research Society Symposia Proceedings, 2004, 834, 215.	0.1	0