

Jordi Gomis-Bresco

List of Publications by Year in descending order

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53
papers

1,519
citations

361413

20
h-index

302126

39
g-index

53
all docs

53
docs citations

53
times ranked

1709
citing authors

#	ARTICLE	IF	CITATIONS
1	Progress and perspectives on phononic crystals. Journal of Applied Physics, 2021, 129, .	2.5	105
2	Unidirectional guided resonances in anisotropic waveguides. Optics Letters, 2021, 46, 2545.	3.3	7
3	Quantifying the Robustness of Topological Slow Light. Physical Review Letters, 2021, 126, 027403.	7.8	54
4	Slow light mediated by mode topological transitions in hyperbolic waveguides. Optics Letters, 2021, 46, 58.	3.3	5
5	Existence Loci of Bound States in the Continuum in the Parameter Space of Anisotropic Planar Structures. , 2019, , .		0
6	Waveguide Stopped Light Mediated by Mode Transitions. , 2019, , .		0
7	Transition from Dirac points to exceptional points in anisotropic waveguides. Physical Review Research, 2019, 1, .	3.6	7
8	Angular control of anisotropy-induced bound states in the continuum. Optics Letters, 2019, 44, 5362.	3.3	16
9	In-line metrology for roll-to-roll UV assisted nanoimprint lithography using diffractometry. APL Materials, 2018, 6, 058502.	5.1	8
10	Topological properties of bound states in the continuum in geometries with broken anisotropy symmetry. Physical Review A, 2018, 98, .	2.5	27
11	Anisotropy-induced photonic bound states in the continuum. Nature Photonics, 2017, 11, 232-236.	31.4	138
12	Bound states in the continuum in anisotropic structures. , 2017, , .		0
13	Finite element analysis of true and pseudo surface acoustic waves in one-dimensional phononic crystals. Journal of Applied Physics, 2016, 119, .	2.5	61
14	Measurement and modeling of the effective thermal conductivity of sintered silver pastes. International Journal of Thermal Sciences, 2016, 108, 185-194.	4.9	35
15	Self-sustained coherent phonon generation in optomechanical cavities. Journal of Optics (United) Tj ETQq1 1 0.784314 rgBT /Overlo	2.2	12
16	Self-pulsing and phonon lasing in optomechanical crystals. , 2016, , .		0
17	A self-stabilized coherent phonon source driven by optical forces. Scientific Reports, 2015, 5, 15733.	3.3	39
18	Phonon dispersion in hypersonic two-dimensional phononic crystal membranes. Physical Review B, 2015, 91, .	3.2	79

#	ARTICLE	IF	CITATIONS
19	A diffractometer for quality control in nano fabrication processing based on subwavelength diffraction. Proceedings of SPIE, 2015, , .	0.8	1
20	In-line metrology setup for periodic nanostructures based on sub-wavelength diffraction. Proceedings of SPIE, 2015, , .	0.8	2
21	Dynamical back-action at 5.5 GHz in a corrugated optomechanical beam. AIP Advances, 2014, 4, .	1.3	18
22	Cavity modes and optomechanic interactions in strip waveguide. IOP Conference Series: Materials Science and Engineering, 2014, 68, 012003.	0.6	1
23	A novel contactless technique for thermal conductivity determination: Two-laser Raman thermometry. , 2014, , .		1
24	Optical and mechanical mode tuning in an optomechanical crystal with light-induced thermal effects. Journal of Applied Physics, 2014, 116, 093506.	2.5	5
25	Acoustic phonon propagation in ultra-thin Si membranes under biaxial stress field. New Journal of Physics, 2014, 16, 073024.	2.9	17
26	Reduction of the thermal conductivity in free-standing silicon nano-membranes investigated by non-invasive Raman thermometry. APL Materials, 2014, 2, .	5.1	125
27	Modification of Akhieser mechanism in Si nanomembranes and thermal conductivity dependence of the Q -factor of high frequency nanoresonators. Semiconductor Science and Technology, 2014, 29, 124010.	2.0	15
28	A one-dimensional optomechanical crystal with a complete phononic band gap. Nature Communications, 2014, 5, 4452.	12.8	138
29	A PhoXonic crystal: Photonic and phononic bandgaps in a 1D optomechanical crystal. , 2014, , .		0
30	A novel contactless technique for thermal field mapping and thermal conductivity determination: Two-Laser Raman Thermometry. Review of Scientific Instruments, 2014, 85, 034901.	1.3	87
31	Optomechanic interaction in a corrugated phoxonic nanobeam cavity. Physical Review B, 2014, 89, .	3.2	46
32	Thermal conductivity reduction in Si free-standing membranes investigated using Raman thermometry. , 2013, , .		0
33	Nanoscale thermal transport and phonon dynamics in ultra-thin Si based nanostructures. , 2013, , .		0
34	Flexural mode dispersion in ultra-thin Ge membranes. , 2013, , .		0
35	Phonons in Slow Motion: Dispersion Relations in Ultrathin Si Membranes. Nano Letters, 2012, 12, 3569-3573.	9.1	83
36	Ultrafast Relaxation Dynamics via Acoustic Phonons in Carbon Nanotubes. Nano Letters, 2012, 12, 2249-2253.	9.1	22

#	ARTICLE	IF	CITATIONS
37	Dielectric screening effects on transition energies in aligned carbon nanotubes. <i>Physical Review B</i> , 2012, 85, .	3.2	17
38	Scattering of electrons with acoustic phonons in single-walled carbon nanotubes. , 2012, , .		0
39	Impact of carrier-carrier scattering and carrier heating on pulse train dynamics of quantum dot semiconductor optical amplifiers. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	44
40	Nonlinear gain dynamics of quantum dot optical amplifiers. <i>Semiconductor Science and Technology</i> , 2011, 26, 014008.	2.0	21
41	Random population model to explain the recombination dynamics in single InAs/GaAs quantum dots under selective optical pumping. <i>New Journal of Physics</i> , 2011, 13, 023022.	2.9	24
42	Analytical description of gain depletion and recovery in quantum dot optical amplifiers. <i>New Journal of Physics</i> , 2010, 12, 063012.	2.9	12
43	Time-resolved amplified spontaneous emission in quantum dots. <i>Applied Physics Letters</i> , 2010, 97, 251106.	3.3	20
44	InGaAs Quantum Dots Coupled to a Reservoir of Nonequilibrium Free Carriers. <i>IEEE Journal of Quantum Electronics</i> , 2009, 45, 1121-1128.	1.9	28
45	Exciton, biexciton and trion recombination dynamics in a single quantum dot under selective optical pumping. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 2100-2103.	2.7	9
46	Temperature dependent optical properties of stacked InGaAs/GaAs quantum rings. <i>Materials Science and Engineering C</i> , 2008, 28, 887-890.	7.3	1
47	Impact of Coulomb Scattering on the Ultrafast Gain Recovery in InGaAs Quantum Dots. <i>Physical Review Letters</i> , 2008, 101, 256803.	7.8	61
48	Gain Dynamics after Ultrashort Pulse Trains in Quantum Dot based Semiconductor Optical Amplifiers. , 2007, , .		2
49	Complete ground state gain recovery after ultrashort double pulses in quantum dot based semiconductor optical amplifier. <i>Applied Physics Letters</i> , 2007, 90, 033508.	3.3	90
50	Effect of carrier transfer on the PL intensity in self-assembled In (Ga) As/GaAs quantum rings. <i>EPL Applied Physics</i> , 2006, 35, 159-163.	0.7	10
51	Size filtering effect in vertical stacks of In(Ga)As/GaAs self-assembled quantum rings. <i>Materials Science and Engineering C</i> , 2006, 26, 297-299.	7.3	2
52	Lateral carrier tunnelling in stacked In(Ga)As/GaAs quantum rings. <i>European Physical Journal B</i> , 2006, 54, 217-223.	1.5	13
53	Shape dependent electronic structure and exciton dynamics in small In(Ga)As quantum dots. <i>European Physical Journal B</i> , 2006, 54, 471-477.	1.5	11