

# Carlos Luis Trallero-giner

## List of Publications by Year in descending order

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40  
papers

512  
citations

759233

12  
h-index

677142

22  
g-index

40  
all docs

40  
docs citations

40  
times ranked

423  
citing authors

#	ARTICLE	IF	CITATIONS
1	One-phonon resonant Raman scattering: Fröhlich exciton-phonon interaction. Physical Review B, 1989, 40, 4030-4036.	3.2	79
2	Influence of quantum dot shape on the Landé-g-factor determination. Physical Review B, 2004, 69, .	3.2	55
3	LO-phonon confinement and polaron effect in a quantum well. Physical Review B, 1989, 39, 5907-5912.	3.2	44
4	Electronic states in a quantum lens. Physical Review B, 2001, 63, .	3.2	44
5	Phenomenological treatment of long-wavelength polar optical oscillations in semiconductor nanostructures. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1994, 70, 583-599.	0.6	40
6	Formal analytical solutions for the Gross-Pitaevskii equation. Physica D: Nonlinear Phenomena, 2008, 237, 2342-2352.	2.8	27
7	Optical transitions in a single CdTe spherical quantum dot. Physical Review B, 2003, 68, .	3.2	23
8	Magneto-optical properties of nanocrystals: Zeeman splitting. Physical Review B, 2003, 67, .	3.2	19
9	Resonant electron-phonon coupling: Magnetopolarons in InP. Physical Review B, 1996, 54, 10502-10507.	3.2	14
10	Theoretical model of stress-induced triply resonant Raman scattering. Physical Review B, 1989, 40, 1603-1610.	3.2	13
11	Exciton-phonon resonance in the continuum absorption of bulk semiconductors. Physical Review B, 1997, 56, 9488-9495.	3.2	13
12	Doubly and triply resonant Raman scattering via electron two-phonon and impurity-induced Fröhlich interactions in uniaxially stressed GaAs. Physical Review B, 1989, 40, 1013-1022.	3.2	12
13	Multiphonon resonant Raman scattering in a strong magnetic field. Physical Review B, 1991, 44, 12815-12821.	3.2	11
14	Electron-phonon deformation potential interaction in core-shell Ge-Si and Si-Ge nanowires. Physical Review B, 2015, 91, .	3.2	11
15	Electrooptical constants in spherical quantum dots. Physica Status Solidi (B): Basic Research, 1996, 196, 335-346.	1.5	10
16	Bose-Einstein condensates in optical lattices: Mathematical analysis and analytical approximate formulae. Physica D: Nonlinear Phenomena, 2012, 241, 755-763.	2.8	9
17	Inversion asymmetry spin splitting in self-assembled quantum rings. Physical Review B, 2008, 77, .	3.2	8
18	Effect of pressure on the second-order Raman scattering intensities of zincblende semiconductors. Physica Status Solidi (B): Basic Research, 2010, 247, 182-188.	1.5	7

#	ARTICLE	IF	CITATIONS
19	Optical phonons in spherical core/shell semiconductor nanoparticles: Effect of hydrostatic pressure. <i>Physical Review B</i> , 2010, 82, .	3.2	7
20	Validity of Grossâ€Pitaevskii solutions of harmonically confined BEC gases in reduced dimensions. <i>Journal of Physics Communications</i> , 2019, 3, 085003.	1.2	7
21	Quantum lens in an external electric field: Anomalous photoluminescence behavior. <i>Journal of Applied Physics</i> , 2004, 95, 6192-6199.	2.5	6
22	Intraband magnetoabsorption as a probing tool for the quantum dot charge. <i>Applied Physics Letters</i> , 2005, 87, 231101.	3.3	6
23	Uncoupled optical phonons in core/shell GaAs/GaP nanowires: Strain effects. <i>Journal of Applied Physics</i> , 2012, 112, 084322.	2.5	6
24	Variational calculation of the lowest exciton states in phosphorene and transition metal dichalcogenides. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 045702.	1.8	6
25	Phonon side bands in the optical emission of zinc-blende-type semiconductors. <i>Physical Review B</i> , 1993, 48, 5187-5196.	3.2	5
26	Phenomenological model for long-wavelength optical modes in transition metal dichalcogenide monolayer. <i>Physical Review B</i> , 2021, 103, .	3.2	5
27	Planar vibrational modes in semiconductors: A simple model. <i>Physica Scripta</i> , 1997, 56, 407-411.	2.5	4
28	Scattering of hot excitons due to optical phonons in quantum wells: Multiphonon resonant Raman process. <i>Physical Review B</i> , 2002, 65, .	3.2	4
29	Stark Effect in Self-Assembled Quantum Dots with Lens Shape. <i>Physica Status Solidi (B): Basic Research</i> , 2002, 230, 463-468.	1.5	4
30	Electronâ€acoustic-phonon interaction in core/shell Ge/Si and Si/Ge nanowires. <i>Physical Review B</i> , 2017, 95, .	3.2	4
31	Contactless electroreflectance studies of IIâ€VI nanostructures grown by molecular beam epitaxy. <i>Physica Status Solidi (B): Basic Research</i> , 2004, 241, 546-549.	1.5	3
32	Resonant Raman Scattering in Asymmetric Semiconductor Quantum Disks. <i>Physica Status Solidi (B): Basic Research</i> , 1999, 215, 459-463.	1.5	2
33	Liquid surface waves in parabolic tanks. <i>Physics of Fluids</i> , 2008, 20, .	4.0	2
34	Zeeman Effect in Self-Assembled Quantum Dots. <i>Physica Status Solidi (B): Basic Research</i> , 2002, 230, 437-442.	1.5	1
35	Quantum well electronic states in a tilted magnetic field. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 325503.	1.8	1
36	Electronic States of Self-Assembled Quantum Dots: Symmetries in a Quantum Lens. <i>Materials Research Society Symposia Proceedings</i> , 1999, 579, 129.	0.1	0

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37	Effective $g$ -factor control in II-VI quantum dots: morphological effects. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004, 1, 807-810.	0.8	0
38	Eigenstate symmetries and information transfer in parabolic quantum reflectors. <i>Physical Review B</i> , 2009, 79, .	3.2	0
39	Nonlinear Schrödinger equations with single power nonlinearity and harmonic potential. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2018, 51, 115201.	2.1	0
40	Ultranarrow lines in Raman spectra of quantum wells due to effective acoustic phonon selection by in-plane wave vector. <i>Physical Review B</i> , 2022, 105, .	3.2	0