

Gilmar Eugenio Marques

List of Publications by Year in descending order

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209
papers

1,931
citations

331670

21
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395702

33
g-index

209
all docs

209
docs citations

209
times ranked

1659
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | Theory of space-charge layers in narrow-gap semiconductors. <i>Surface Science</i> , 1982, 113, 131-136. | 1.9 | 86 |
| 2 | Aharonov-Bohm Interference in Neutral Excitons: Effects of Built-In Electric Fields. <i>Physical Review Letters</i> , 2010, 104, 086401. | 7.8 | 80 |
| 3 | Spin-orbit coupling and intrinsic spin mixing in quantum dots. <i>Physical Review B</i> , 2004, 69, . | 3.2 | 72 |
| 4 | Interface optical phonons in spheroidal dots: Raman selection rules. <i>Physical Review B</i> , 2002, 65, . | 3.2 | 62 |
| 5 | Influence of quantum dot shape on the Landé g-factor determination. <i>Physical Review B</i> , 2004, 69, . | 3.2 | 55 |
| 6 | Role of defects on the enhancement of the photocatalytic response of ZnO nanostructures. <i>Applied Surface Science</i> , 2018, 448, 646-654. | 6.1 | 46 |
| 7 | Electronic structure of zinc-blende-structure semiconductor heterostructures. <i>Physical Review B</i> , 1990, 41, 10608-10621. | 3.2 | 42 |
| 8 | Spin-orbit and electronic interactions in narrow-gap quantum dots. <i>Physical Review B</i> , 2004, 70, . | 3.2 | 41 |
| 9 | Optical phonons in semiconductor quantum rods. <i>Solid State Communications</i> , 2004, 130, 477-480. | 1.9 | 35 |
| 10 | Temperature-dependent Raman study of thermal parameters in CdS quantum dots. <i>Nanotechnology</i> , 2012, 23, 125701. | 2.6 | 34 |
| 11 | Strain-induced enhancement of resonant current of holes in multilayered heterostructures. <i>Physical Review B</i> , 1998, 57, 4525-4543. | 3.2 | 28 |
| 12 | Morphology in semimagnetic $\text{Pb}_{1-x}\text{MnxSe}$ nanocrystals: Thermal annealing effects. <i>Applied Physics Letters</i> , 2009, 94, . | 3.3 | 28 |
| 13 | Magneto-optical properties of $\text{Cd}_{1-x}\text{MnxS}$ nanoparticles: influences of magnetic doping, Mn^{2+} ions localization, and quantum confinement. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 3248. | 2.8 | 27 |
| 14 | Markovian and Non-Markovian Light-Emission Channels in Strained Quantum Wires. <i>Nano Letters</i> , 2009, 9, 3129-3136. | 9.1 | 24 |
| 15 | Microwave-Driven Hexagonal-to-Monoclinic Transition in BiPO_4 : An In-Depth Experimental Investigation and First-Principles Study. <i>Inorganic Chemistry</i> , 2020, 59, 7453-7468. | 4.0 | 24 |
| 16 | Optical transitions in a single CdTe spherical quantum dot. <i>Physical Review B</i> , 2003, 68, . | 3.2 | 23 |
| 17 | Electric-field inversion asymmetry: Rashba and Stark effects for holes in resonant tunneling devices. <i>Physical Review B</i> , 2006, 74, . | 3.2 | 23 |
| 18 | ZnTe nanocrystal formation and growth control on UV-transparent substrate. <i>Chemical Physics Letters</i> , 2010, 500, 46-48. | 2.6 | 23 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Nanothermometer Based on Resonant Tunneling Diodes: From Cryogenic to Room Temperatures. ACS Nano, 2015, 9, 6271-6277. | 14.6 | 23 |
| 20 | Growth and formation mechanism of shape-selective preparation of ZnO structures: correlation of structural, vibrational and optical properties. Physical Chemistry Chemical Physics, 2020, 22, 7329-7339. | 2.8 | 23 |
| 21 | Energy transfer between CdS nanocrystals and neodymium ions embedded in vitreous substrates. Optics Letters, 2010, 35, 1329. | 3.3 | 22 |
| 22 | Dilute magnetism in Zn _{1-x} Mn _x Te nanocrystals grown in a glass template. Chemical Physics Letters, 2012, 541, 44-48. | 2.6 | 22 |
| 23 | Voltage-controlled hole spin injection in nonmagnetic GaAs/AlAs resonant tunneling structures. Physical Review B, 2006, 73, . | 3.2 | 21 |
| 24 | Excitongfactor of type-III InP/GaAs single quantum dots. Physical Review B, 2006, 73, . | 3.2 | 21 |
| 25 | Mechanisms of interdot coupling in (In,Ga)As/GaAs quantum dot arrays. Applied Physics Letters, 2009, 94, . | 3.3 | 21 |
| 26 | Tailoring Electronic Transparency of Twin-Plane 1D Superlattices. ACS Nano, 2011, 5, 5519-5525. | 14.6 | 21 |
| 27 | Polaronic state of electrons on the surface of liquid-helium films: A self-consistent treatment. Physical Review B, 1989, 39, 4133-4139. | 3.2 | 20 |
| 28 | Electron transport in quantum dot chains: Dimensionality effects and hopping conductance. Journal of Applied Physics, 2013, 113, 183709. | 2.5 | 20 |
| 29 | Magneto-optical properties of nanocrystals: Zeeman splitting. Physical Review B, 2003, 67, . | 3.2 | 19 |
| 30 | Tailoring the physical and chemical properties of Sn _{1-x} Co _x O ₂ nanoparticles: an experimental and theoretical approach. Physical Chemistry Chemical Physics, 2020, 22, 3702-3714. | 2.8 | 19 |
| 31 | Deformed cyclotronic orbits for shallow impurities in cylindrical quantum well wires. Solid State Communications, 1999, 110, 209-214. | 1.9 | 18 |
| 32 | Radiative versus nonradiative optical processes in PbS nanocrystals. Journal of Applied Physics, 2011, 109, . | 2.5 | 18 |
| 33 | Interface optical phonons in spheroidal quantum dots. Journal of Physics Condensed Matter, 2002, 14, 6469-6481. | 1.8 | 17 |
| 34 | Circular polarization from a nonmagnetic p-i-n resonant tunneling diode. Applied Physics Letters, 2007, 90, 062120. | 3.3 | 17 |
| 35 | Electron-acoustic-phonon scattering rates in InAs quantum dots: contribution of the macroscopic deformation potential. Solid State Communications, 2000, 116, 247-252. | 1.9 | 16 |
| 36 | Electron-phonon-induced spin relaxation in InAs quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 20, 228-231. | 2.7 | 16 |

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| 37 | Polarization resolved luminescence in asymmetric n-type GaAs ⁺ AlGaAs resonant tunneling diodes. Applied Physics Letters, 2008, 92, . | 3.3 | 16 |
| 38 | Engineering of the band gap induced by Ce surface enrichment in Ce-doped SnO ₂ nanocrystals. Applied Surface Science, 2020, 527, 146794. | 6.1 | 16 |
| 39 | Phonon modulation of the spin-orbit interaction as a spin relaxation mechanism in quantum dots. Physical Review B, 2008, 77, . | 3.2 | 15 |
| 40 | Carrier transfer in vertically stacked quantum ring-quantum dot chains. Journal of Applied Physics, 2015, 117, . | 2.5 | 15 |
| 41 | Azobenzene Adsorption on the MoS ₂ (0001) Surface: A Density Functional Investigation within van der Waals Corrections. Journal of Physical Chemistry C, 2018, 122, 18895-18901. | 3.1 | 15 |
| 42 | Insights into the nature of optically active defects of ZnO. Journal of Luminescence, 2020, 227, 117536. | 3.1 | 15 |
| 43 | Light controlled spin polarization in asymmetric n-type resonant tunneling diode. Applied Physics Letters, 2007, 91, . | 3.3 | 14 |
| 44 | Optical phonons and Raman scattering in ternary II-VI spheroidal nanocrystals embedded in a glass matrix. Journal of Non-Crystalline Solids, 2006, 352, 3618-3623. | 3.1 | 13 |
| 45 | Zeeman splitting and spin dynamics tuning by exciton charging in two-dimensional systems. Physical Review B, 2011, 84, . | 3.2 | 13 |
| 46 | Characterization of spin-state tuning in thermally annealed semiconductor quantum dots. Physical Review B, 2010, 82, . | 3.2 | 12 |
| 47 | In-plane mapping of buried InGaAs quantum rings and hybridization effects on the electronic structure. Journal of Applied Physics, 2012, 112, . | 2.5 | 12 |
| 48 | Temperature tuning from direct to inverted bistable electroluminescence in resonant tunneling diodes. Journal of Applied Physics, 2017, 122, 154502. | 2.5 | 12 |
| 49 | Dynamical mass effect on confined exciton states. Physical Review B, 1988, 38, 8533-8536. | 3.2 | 11 |
| 50 | Manipulation of g-factor in diluted magnetic semiconductors quantum dots: Optical switching control. Applied Physics Letters, 2006, 88, 052101. | 3.3 | 11 |
| 51 | Negative magnetopolarization in thermally annealed self-assembled quantum dots. Physical Review B, 2008, 77, . | 3.2 | 11 |
| 52 | Spin injection from two-dimensional electron and hole gases in resonant tunneling diodes. Applied Physics Letters, 2011, 99, 233507. | 3.3 | 11 |
| 53 | Paramagnetic shift in thermally annealed Cd _x Zn _{1-x} Se quantum dots. New Journal of Physics, 2012, 14, 043038. | 2.9 | 11 |
| 54 | Control of magnetic behavior by Pb _{1-x} Mn _x S nanocrystals in a glass matrix. Journal of Applied Physics, 2012, 111, 064311. | 2.5 | 11 |

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| 55 | Low temperature magneto-photoluminescence of GaAsBi /GaAs quantum well heterostructures. Journal of Applied Physics, 2014, 115, 123518. | 2.5 | 11 |
| 56 | Electron-phonon deformation potential interaction in core-shell Ge-Si and Si-Ge nanowires. Physical Review B, 2015, 91, . | 3.2 | 11 |
| 57 | Photoluminescence in Cylindrical Quantum Well Wires in the Presence of Shallow Impurities and Magnetic Field. Physica Status Solidi (B): Basic Research, 1999, 212, 375-381. | 1.5 | 10 |
| 58 | Electrical control of singlet-triplet entanglement in lateral quantum dot molecules. Applied Physics Letters, 2009, 95, 083101. | 3.3 | 10 |
| 59 | Anisotropic Confinement, Electronic Coupling and Strain Induced Effects Detected by Valence-Band Anisotropy in Self-Assembled Quantum Dots. Nanoscale Research Letters, 2011, 6, 56. | 5.7 | 10 |
| 60 | Structural and magnetic confinement of holes in the spin-polarized emission of coupled quantum ring-quantum dot chains. Physical Review B, 2014, 90, . | 3.2 | 10 |
| 61 | Electronic structure of semimagnetic semiconductor heterostructures. Semiconductor Science and Technology, 1988, 3, 564-571. | 2.0 | 9 |
| 62 | Plasmon-phonon coupling in $\hat{\Gamma}$ -doped polar semiconductors. Physical Review B, 1997, 55, 1554-1562. | 3.2 | 9 |
| 63 | Photoluminescence of GaAs/Al _x Ga _{1-x} As multiple quantum well structures containing $\hat{\Gamma}$ -doping superlattices. Physical Review B, 2003, 67, . | 3.2 | 9 |
| 64 | Multichannel field-effect spin-barrier selector: Spin-carrier dynamics under full spin-orbit coupling. Physical Review B, 2005, 72, . | 3.2 | 9 |
| 65 | Spin polarization in quantum wires: Influence of Dresselhaus spin-orbit interaction and cross-section effects. Physical Review B, 2009, 79, . | 3.2 | 9 |
| 66 | Analytical Model for Heterogeneous Crystallization Kinetics of Spherical Glass Particles. Journal of the American Ceramic Society, 2009, 92, 2616-2618. | 3.8 | 9 |
| 67 | The migration of Mn ²⁺ ions in Cd ^{1-x} Mn ^x S nanocrystals: Thermal annealing control. Solid State Communications, 2012, 152, 337-340. | 1.9 | 9 |
| 68 | Effects of AlGaAs cladding layers on the luminescence of GaAs/GaAs _{1-x} Bi _x /GaAs heterostructures. Nanotechnology, 2014, 25, 035702. | 2.6 | 9 |
| 69 | Multi-dimensional architecture of Ag ^{1-x} Ag ₂ WO ₄ crystals: insights into microstructural, morphological, and photoluminescence properties. CrystEngComm, 2020, 22, 7903-7917. | 2.6 | 9 |
| 70 | Charge transfer in Pr-Doped cerium oxide: Experimental and theoretical investigations. Materials Chemistry and Physics, 2020, 249, 122967. | 4.0 | 9 |
| 71 | Connecting morphology and photoluminescence emissions in $\hat{\Gamma}^2$ -Ag ₂ MoO ₄ microcrystals. Ceramics International, 2022, 48, 3740-3750. | 4.8 | 9 |
| 72 | Non-parabolicity due to conduction-valence band coupling. Journal of Physics C: Solid State Physics, 1987, 20, L727-L733. | 1.5 | 8 |

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| 73 | Interband and intersubband absorption in HgCdTe multiple quantum wells. <i>Physical Review B</i> , 1999, 59, 10158-10164. | 3.2 | 8 |
| 74 | Anomalous Landé factor in narrow-gap semiconductor heterostructures. <i>Solid State Communications</i> , 2000, 114, 649-654. | 1.9 | 8 |
| 75 | Kinetics of excitonic complexes on tunneling devices. <i>Physical Review B</i> , 2005, 71, . | 3.2 | 8 |
| 76 | Inversion asymmetry spin splitting in self-assembled quantum rings. <i>Physical Review B</i> , 2008, 77, . | 3.2 | 8 |
| 77 | Cooperative Effects in the Photoluminescence of (In,Ga)As/GaAs Quantum Dot Chain Structures. <i>Nanoscale Research Letters</i> , 2010, 5, 991-1001. | 5.7 | 8 |
| 78 | Hole-mediated ferromagnetism in coupled semimagnetic quantum dots. <i>Physical Review B</i> , 2011, 84, . | 3.2 | 8 |
| 79 | Photoinduced intersubband transition in undoped HgCdTe multiple quantum wells. <i>Applied Physics Letters</i> , 1995, 66, 2998-3000. | 3.3 | 7 |
| 80 | Resonant Raman scattering in a magnetic field assisted by Fröhlich interaction in zinc-blende-type semiconductors. <i>Physical Review B</i> , 1998, 58, 16136-16143. | 3.2 | 7 |
| 81 | Electron-phonon optical-phonon scattering rates in spherical CdSe quantum dots in an external magnetic field. <i>Physical Review B</i> , 2002, 65, . | 3.2 | 7 |
| 82 | Optical phonons in spherical core/shell semiconductor nanoparticles: Effect of hydrostatic pressure. <i>Physical Review B</i> , 2010, 82, . | 3.2 | 7 |
| 83 | Quantum oscillations of spin polarization in a GaAs/AlGaAs double quantum well. <i>Physical Review B</i> , 2012, 86, . | 3.2 | 7 |
| 84 | Experimental and ab Initio Studies of Deep-Bulk Traps in Doped Rare-Earth Oxide Thick Films. <i>Journal of Physical Chemistry C</i> , 2020, 124, 997-1007. | 3.1 | 7 |
| 85 | Robust room temperature emissions of trion in darkish WSe ₂ monolayers: effects of dark neutral and charged excitonic states. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 365702. | 1.8 | 7 |
| 86 | Resonant tunneling of electrons in AlSb/GaInAsSb double barrier quantum wells. <i>AIP Advances</i> , 2020, 10, 055024. | 1.3 | 7 |
| 87 | Optical Mapping of Nonequilibrium Charge Carriers. <i>Journal of Physical Chemistry C</i> , 2021, 125, 14741-14750. | 3.1 | 7 |
| 88 | Unraveling the relationship between bulk structure and exposed surfaces and its effect on the electronic structure and photoluminescent properties of Ba _{0.5} Sr _{0.5} TiO ₃ : A joint experimental and theoretical approach. <i>Materials Research Bulletin</i> , 2021, 143, 111442. | 5.2 | 7 |
| 89 | Magneto-resonant Raman scattering in zinc-blende-type semiconductors: Electron-phonon interaction mediated by a deformation potential. <i>Physical Review B</i> , 1997, 56, 15691-15700. | 3.2 | 6 |
| 90 | Dielectric response in narrow-gap semiconductor quantum wells in a magnetic field. <i>Journal of Applied Physics</i> , 2001, 89, 6400-6407. | 2.5 | 6 |

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| 91 | Transport properties in spherical quantum dots: Orbital-blockade and spin-blockade effects. <i>Physical Review B</i> , 2002, 65, . | 3.2 | 6 |
| 92 | Zeeman effect and magnetic anomalies in narrow-gap semiconductor quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004, 20, 286-289. | 2.7 | 6 |
| 93 | The violation of the Hund rule in semiconductor artificial atoms. <i>Semiconductor Science and Technology</i> , 2004, 19, L90-L94. | 2.0 | 6 |
| 94 | Intraband magnetoabsorption as a probing tool for the quantum dot charge. <i>Applied Physics Letters</i> , 2005, 87, 231101. | 3.3 | 6 |
| 95 | Carrier transfer in the optical recombination of quantum dots. <i>Physical Review B</i> , 2011, 83, . | 3.2 | 6 |
| 96 | Anomalous optical properties of GaMnAs/AlAs quantum wells grown by molecular beam epitaxy. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 215301. | 2.8 | 6 |
| 97 | Uncoupled optical phonons in core/shell GaAs/GaP nanowires: Strain effects. <i>Journal of Applied Physics</i> , 2012, 112, 084322. | 2.5 | 6 |
| 98 | Mimicking of pulse shape-dependent learning rules with a quantum dot memristor. <i>Journal of Applied Physics</i> , 2016, 120, . | 2.5 | 6 |
| 99 | Electroluminescence on-off ratio control of $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \text{mathvariant="italic"} \rangle n \langle \text{mml:mi} \rangle \langle \text{mml:mtext} \text{mathvariant="italic"} \rangle \hat{a}^{\prime} \langle \text{mml:mtext} \rangle \langle \text{mml:mi} \text{mathvariant="italic"} \rangle i \langle \text{mml:mi} \rangle \langle \text{mml:mtext} \text{mathvariant="italic"} \rangle \hat{a}^{\prime} \langle \text{mml:mtext} \rangle \langle \text{mml:mi} \text{mathvariant="italic"} \rangle n \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ GaAs/AlGaAs-based resonant tunneling structures. <i>Physical Review B</i>, 2018, 98, . | 3.2 | 6 |
| 100 | Hybridization and strain effects on the optical absorption of quantum wells. <i>Surface Science</i> , 1992, 267, 464-469. | 1.9 | 5 |
| 101 | Level-broadening effects on the inelastic light-scattering spectrum due to coupled plasmon-phonon modes in Γ -doped semiconductors. <i>Physical Review B</i> , 1998, 57, 2276-2279. | 3.2 | 5 |
| 102 | Delta-doping superlattices in multiple quantum wells. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2001, 11, 261-267. | 2.7 | 5 |
| 103 | Mapping between electronic structure and ac-Stark shift resonances in heterostructures. <i>Solid State Communications</i> , 2004, 129, 57-61. | 1.9 | 5 |
| 104 | Optical transitions in geometrical quantum islands. <i>Superlattices and Microstructures</i> , 2005, 37, 248-260. | 3.1 | 5 |
| 105 | Surface phonons modes: a tool to determine the quantum dot morphology. <i>Brazilian Journal of Physics</i> , 2006, 36, 832-835. | 1.4 | 5 |
| 106 | Optical transitions in new trends organic materials. <i>Microelectronics Journal</i> , 2008, 39, 576-578. | 2.0 | 5 |
| 107 | Role of $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{display="inline"} \rangle \langle \text{mml:mi} \rangle X \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ valley on the dynamics of electron transport through a GaAs/AlAs double-barrier structure. <i>Physical Review B</i> , 2008, 78, . | 3.2 | 5 |
| 108 | Contrasting LH-HH subband splitting of strained quantum wells grown along [001] and [113] directions. <i>Physical Review B</i> , 2010, 81, . | 3.2 | 5 |

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| 109 | Spin channels exploring finite superlattices: Vertical and lateral transport. <i>Physical Review B</i> , 2010, 81, . | 3.2 | 5 |
| 110 | Voltage-driven ring confinement in a graphene sheet: assessing conditions for bound state solutions. <i>Nanotechnology</i> , 2012, 23, 385201. | 2.6 | 5 |
| 111 | Luminescent properties of GaAsBi/GaAs double quantum well heterostructures. <i>Journal of Luminescence</i> , 2017, 188, 209-216. | 3.1 | 5 |
| 112 | Nanoscale Tipping Bucket Effect in a Quantum Dot Transistor-Based Counter. <i>Nano Letters</i> , 2017, 17, 2273-2279. | 9.1 | 5 |
| 113 | Photovoltaic efficiency of intermediate band solar cells based on CdTe/CdMnTe coupled quantum dots. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 445301. | 1.8 | 5 |
| 114 | Self-consistent electronic states on helium films. <i>Physica B: Condensed Matter</i> , 1988, 153, 1-6. | 2.7 | 4 |
| 115 | Quantum-degeneracy effects in the mobility of the electron fluid on the surface of helium. <i>Physical Review B</i> , 1992, 46, 1857-1859. | 3.2 | 4 |
| 116 | Subband dispersions in semiconductor superlattices under in-plane magnetic fields. <i>Superlattices and Microstructures</i> , 1992, 12, 337-340. | 3.1 | 4 |
| 117 | Temperature effects on Fermi-edge absorption spectra. <i>Physical Review B</i> , 1997, 56, 9753-9765. | 3.2 | 4 |
| 118 | Electronic structure in narrow-gap quantum dots. <i>Brazilian Journal of Physics</i> , 1999, 29, 730-733. | 1.4 | 4 |
| 119 | Multiband electron resonant Raman scattering in quantum wells in a magnetic field. <i>Physical Review B</i> , 2003, 67, . | 3.2 | 4 |
| 120 | Electron spin-phonon relaxation in quantum dots. <i>Brazilian Journal of Physics</i> , 2004, 34, 705-707. | 1.4 | 4 |
| 121 | Zeeman effect and magnetic field induced spin-hybridization in semiconductor quantum dots. <i>Journal of Physics Condensed Matter</i> , 2004, 16, 6949-6960. | 1.8 | 4 |
| 122 | Spin-flip relaxation due to phonon macroscopic deformation potential in quantum dots. <i>Microelectronics Journal</i> , 2005, 36, 1034-1037. | 2.0 | 4 |
| 123 | Spin-orbit effects in single electron quantum rings. <i>Semiconductor Science and Technology</i> , 2007, 22, 301-306. | 2.0 | 4 |
| 124 | Spin relaxation rates in quantum dots: Role of the phonon modulated spin-orbit interaction. <i>Solid State Communications</i> , 2008, 148, 255-258. | 1.9 | 4 |
| 125 | Anisotropy induced localization of pseudo-relativistic spin states in graphene double quantum wire structures. <i>Nanotechnology</i> , 2010, 21, 365401. | 2.6 | 4 |
| 126 | Magneto-optical properties in IV-VI lead-salt semimagnetic nanocrystals. <i>Nanoscale Research Letters</i> , 2012, 7, 374. | 5.7 | 4 |

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| 127 | Spin injection in n-type resonant tunneling diodes. <i>Nanoscale Research Letters</i> , 2012, 7, 592. | 5.7 | 4 |
| 128 | Evidence for the formation of metallic In after laser irradiation of InP. <i>Journal of Applied Physics</i> , 2019, 126, . | 2.5 | 4 |
| 129 | Determination of Carrier Density and Dynamics via Magnetoelectroluminescence Spectroscopy in Resonant-Tunneling Diodes. <i>Physical Review Applied</i> , 2021, 15, . | 3.8 | 4 |
| 130 | Two-photon absorption processes in semiconductor quantum dots. <i>Brazilian Journal of Physics</i> , 2006, 36, 960-962. | 1.4 | 4 |
| 131 | Impurity-shifted polaron energy in semimagnetic Cd _{1-x} MnxTe quantum wells. <i>Physical Review B</i> , 1987, 36, 5066-5069. | 3.2 | 3 |
| 132 | Effects of intersubband interaction on multisubband electron transport in single and double quantum wells. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 1998, 2, 222-227. | 2.7 | 3 |
| 133 | Optical properties of δ -doped semiconductors: Plasmon-phonon coupling and Raman spectra. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 1998, 2, 267-271. | 2.7 | 3 |
| 134 | Erratum to "Anomalous Landé factor in narrow-gap semiconductor heterostructures". <i>Solid State Communications</i> , 2000, 115, 515. | 1.9 | 3 |
| 135 | Electronic Levels of Quantum Dots: A Variational Approach. <i>Journal of the Physical Society of Japan</i> , 2000, 69, 3904-3911. | 1.6 | 3 |
| 136 | Raman spectra of a two-dimensional electron gas in narrow-gap semiconductor quantum wells in magnetic fields: Spin-flip and anisotropic effects. <i>Physical Review B</i> , 2002, 66, . | 3.2 | 3 |
| 137 | Spin-Flip Effect in Narrow-Gap Semiconductor Quantum Wells. <i>Physica Status Solidi (B): Basic Research</i> , 2002, 231, 263-277. | 1.5 | 3 |
| 138 | Tunneling effects on the impurity spectral function in coupled asymmetric quantum wires. <i>Physical Review B</i> , 2003, 68, . | 3.2 | 3 |
| 139 | Spin-polarized charge fluctuations in magnetic tunneling diodes. <i>Solid State Communications</i> , 2004, 130, 253-257. | 1.9 | 3 |
| 140 | The dynamics of excitons and trions in resonant tunneling diodes. <i>Solid State Communications</i> , 2005, 135, 241-246. | 1.9 | 3 |
| 141 | Magneto-optical investigation of two-dimensional gases in n-type resonant tunneling diodes. <i>Semiconductor Science and Technology</i> , 2012, 27, 015018. | 2.0 | 3 |
| 142 | Superfluidity and collective oscillations of trapped Bose-Einstein condensates in a periodical potential. <i>European Physical Journal D</i> , 2012, 66, 1. | 1.3 | 3 |
| 143 | Spin filtering in nanowire directional coupler. <i>Europhysics Letters</i> , 2014, 106, 17002. | 2.0 | 3 |
| 144 | Temperature driven three-dimensional ordering of InGaAs/GaAs quantum dot superlattices grown under As ₂ gas flux. <i>Applied Surface Science</i> , 2014, 305, 689-696. | 6.1 | 3 |

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| 145 | Subband mixing in resonant magnetotunneling through double-barrier semiconductor nanostructures. <i>Journal of Applied Physics</i> , 1996, 79, 8475-8481. | 2.5 | 2 |
| 146 | Effects of intersubband coupling on Friedel oscillations in quasi-two-dimensional electron systems. <i>Superlattices and Microstructures</i> , 1999, 25, 185-189. | 3.1 | 2 |
| 147 | Electronic transport in quasi-1D mesoscopic systems: the correlated electron approach. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2000, 7, 786-789. | 2.7 | 2 |
| 148 | Acoustic and optical phonon scattering rates in spherical quantum dots: magnetic effects. <i>Physica B: Condensed Matter</i> , 2002, 316-317, 459-463. | 2.7 | 2 |
| 149 | Resonant magnetotunneling of photogenerated holes in double barrier structures. <i>Journal of Applied Physics</i> , 2003, 93, 5830-5832. | 2.5 | 2 |
| 150 | Spin carrier dynamics under full spin-orbit coupling. <i>Microelectronics Journal</i> , 2005, 36, 480-483. | 2.0 | 2 |
| 151 | Transversal confined polar optical phonons in spherical quantum-dot/quantum-well nanostructures. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 459-466. | 1.5 | 2 |
| 152 | Confined polar optical phonons in semiconductor double heterostructures: an improved continuum approach. <i>Semiconductor Science and Technology</i> , 2007, 22, 229-236. | 2.0 | 2 |
| 153 | Controlled optical switching in DMS quantum dots. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007, 4, 344-346. | 0.8 | 2 |
| 154 | Spin transport properties in double-barrier systems with diluted magnetic semiconductor doped layers. <i>Microelectronics Journal</i> , 2008, 39, 1339-1340. | 2.0 | 2 |
| 155 | Tunability of magnetization in lateral few electron double quantum dots. <i>Journal of Applied Physics</i> , 2010, 108, 094325. | 2.5 | 2 |
| 156 | Control of $p\text{-}d$ exchange interaction in single Mn-doped vertically coupled asymmetric double quantum dots. <i>Physical Review B</i> , 2010, 82, . | 3.2 | 2 |
| 157 | Gate-controlled electron g-factor in lateral quantum dot molecules. <i>Journal of Applied Physics</i> , 2011, 110, 124309. | 2.5 | 2 |
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