

# Clivia M Sotomayor Torres

## List of Publications by Year in descending order

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515  
papers

12,611  
citations

30070

54  
h-index

43889

91  
g-index

531  
all docs

531  
docs citations

531  
times ranked

11972  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Intrinsic mechanism for the poor luminescence properties of quantum-box systems. <i>Physical Review B</i> , 1991, 44, 10945-10948.   | 3.2  | 827       |
| 2  | Direct Measurement of Room-Temperature Nondiffusive Thermal Transport Over Micron Distances in a Silicon Membrane. <i>Physical Review Letters</i> , 2013, 110, 025901.   | 7.8  | 330       |
| 3  | Light-Emitting Diodes with Semiconductor Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 6538-6549.   | 13.8 | 305       |
| 4  | Self-guiding in two-dimensional photonic crystals. <i>Optics Express</i> , 2003, 11, 1203.   | 3.4  | 214       |
| 5  | Nanoimprint lithography: challenges and prospects. <i>Nanotechnology</i> , 2001, 12, 91-95.  | 2.6  | 200       |
| 6  | Nanoimprint lithography: an alternative nanofabrication approach. <i>Materials Science and Engineering C</i> , 2003, 23, 23-31.  | 7.3  | 163       |
| 7  | Graphene related materials for thermal management. <i>2D Materials</i> , 2020, 7, 012001.  | 4.4  | 161       |
| 8  | Bottom-up growth of fully transparent contact layers of indium tin oxide nanowires for light-emitting devices. <i>Nature Nanotechnology</i> , 2009, 4, 239-244.  | 31.5 | 157       |
| 9  | Photonic Crystal Films with High Refractive Index Contrast. <i>Advanced Materials</i> , 2000, 12, 1499-1503.   | 21.0 | 154       |
| 10 | Problems of the nanoimprinting technique for nanometer scale pattern definition. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1998, 16, 3917. | 1.6  | 153       |
| 11 | Damaging Graphene with Ozone Treatment: A Chemically Tunable Metal-Insulator Transition. <i>ACS Nano</i> , 2010, 4, 4033-4038.   | 14.6 | 149       |
| 12 | Nanophononics: state of the art and perspectives. <i>European Physical Journal B</i> , 2016, 89, 1.  | 1.5  | 149       |
| 13 | Diffraction of light from thin-film polymethylmethacrylate opaline photonic crystals. <i>Physical Review E</i> , 2001, 63, 056603.   | 2.1  | 146       |
| 14 | Magnetotransport in disordered graphene exposed to ozone: From weak to strong localization. <i>Physical Review B</i> , 2010, 81, .   | 3.2  | 141       |
| 15 | A one-dimensional optomechanical crystal with a complete phononic band gap. <i>Nature Communications</i> , 2014, 5, 4452.  | 12.8 | 138       |
| 16 | Nano-Urchin: The Formation and Structure of High-Density Spherical Clusters of Vanadium Oxide Nanotubes. <i>Chemistry of Materials</i> , 2006, 18, 3016-3022.  | 6.7  | 134       |
| 17 | Dye-Containing Polymer Beads as Photonic Crystals. <i>Chemistry of Materials</i> , 2000, 12, 2508-2512.  | 6.7  | 129       |
| 18 | Reduction of the thermal conductivity in free-standing silicon nano-membranes investigated by non-invasive Raman thermometry. <i>APL Materials</i> , 2014, 2, .  | 5.1  | 125       |

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|----|---|------|-----------|
| 19 | Two-Dimensional Phononic Crystals: Disorder Matters. <i>Nano Letters</i> , 2016, 16, 5661-5668.   | 9.1  | 116       |
| 20 | Heterostructures of Polymer Photonic Crystal Films. <i>Chemistry of Materials</i> , 2003, 15, 3786-3792.  | 6.7  | 111       |
| 21 | Reconstructing phonon mean-free-path contributions to thermal conductivity using nanoscale membranes. <i>Physical Review B</i> , 2015, 91, .  | 3.2  | 111       |
| 22 | Optical characterization of submonolayer and monolayer InAs structures grown in a GaAs matrix on (100) and high-index surfaces. <i>Applied Physics Letters</i> , 1994, 64, 1526-1528.                                     | 3.3  | 109       |
| 23 | Towards Plastic Electronics: Patterning Semiconducting Polymers by Nanoimprint Lithography. <i>Advanced Materials</i> , 2002, 14, 588.  | 21.0 | 106       |
| 24 | Tuning Thermal Transport in Ultrathin Silicon Membranes by Surface Nanoscale Engineering. <i>ACS Nano</i> , 2015, 9, 3820-3828.   | 14.6 | 104       |
| 25 | Transparent aluminium zinc oxide thin films with enhanced thermoelectric properties. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6649-6655.  | 10.3 | 97        |
| 26 | Lifetimes of Confined Acoustic Phonons in Ultrathin Silicon Membranes. <i>Physical Review Letters</i> , 2013, 110, 095503.  | 7.8  | 96        |
| 27 | Ground state exciton lasing in CdSe submonolayers inserted in a ZnSe matrix. <i>Applied Physics Letters</i> , 1996, 69, 1343-1345.  | 3.3  | 89        |
| 28 | A novel contactless technique for thermal field mapping and thermal conductivity determination: Two-Laser Raman Thermometry. <i>Review of Scientific Instruments</i> , 2014, 85, 034901.                                  | 1.3  | 87        |
| 29 | Heterostructured layered hybrid ZnO/MoS <sub>2</sub> nanosheets with enhanced visible light photocatalytic activity. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 113, 119-124.                              | 4.0  | 84        |
| 30 | Enhancement of the photonic gap of opal-based three-dimensional gratings. <i>Applied Physics Letters</i> , 1997, 70, 2091-2093.   | 3.3  | 83        |
| 31 | Phonons in Slow Motion: Dispersion Relations in Ultrathin Si Membranes. <i>Nano Letters</i> , 2012, 12, 3569-3573.  | 9.1  | 83        |
| 32 | A Self-Assembled 2D Thermofunctional Material for Radiative Cooling. <i>Small</i> , 2019, 15, e1905290.   | 10.0 | 83        |
| 33 | Shell Structure and Electronic Excitations of Quantum Dots in a Magnetic Field Probed by Inelastic Light Scattering. <i>Physical Review Letters</i> , 1996, 77, 354-357.  | 7.8  | 82        |
| 34 | Fabrication of High-Density, Large-Area Conducting-Polymer Nanostructures. <i>Advanced Functional Materials</i> , 2006, 16, 1937-1942.  | 14.9 | 80        |
| 35 | Reduced Surfactant Uptake in Three Dimensional Assemblies of VO <sub>x</sub> Nanotubes Improves Reversible Li <sup>+</sup> Intercalation and Charge Capacity. <i>Advanced Functional Materials</i> , 2009, 19, 1736-1745. | 14.9 | 80        |
| 36 | Tuning the Intensity of Metal-Enhanced Fluorescence by Engineering Silver Nanoparticle Arrays. <i>Small</i> , 2010, 6, 1038-1043.   | 10.0 | 79        |

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|----|---|------|-----------|
| 37 | Phonon dispersion in hypersonic two-dimensional phononic crystal membranes. <i>Physical Review B</i> , 2015, 91, .  | 3.2  | 79        |
| 38 | Resonant add-drop filter based on a photonic quasicrystal. <i>Optics Express</i> , 2005, 13, 826.   | 3.4  | 76        |
| 39 | Nonlinear dynamics and chaos in an optomechanical beam. <i>Nature Communications</i> , 2017, 8, 14965.  | 12.8 | 75        |
| 40 | Surface phonons in GaAs cylinders. <i>Semiconductor Science and Technology</i> , 1990, 5, 285-290.  | 2.0  | 74        |
| 41 | Size dependence of the thermal broadening of the exciton linewidth in GaAs/Ga <sub>0.7</sub> Al <sub>0.3</sub> As single quantum wells. <i>Applied Physics Letters</i> , 1992, 61, 1411-1413.                 | 3.3  | 71        |
| 42 | New polymer materials for nanoimprinting. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2000, 18, 1861. | 1.6  | 69        |
| 43 | Nanoimprint lithography for organic electronics. <i>Microelectronic Engineering</i> , 2002, 61-62, 25-31.   | 2.4  | 69        |
| 44 | Magneto-optical properties in ultrathin InAs-GaAs quantum wells. <i>Physical Review B</i> , 1994, 50, 1604-1610.  | 3.2  | 68        |
| 45 | Vanadate Conformation Variations in Vanadium Pentoxide Nanostructures. <i>Journal of the Electrochemical Society</i> , 2007, 154, K29.  | 2.9  | 65        |
| 46 | Highly Scattering Cellulose-Based Films for Radiative Cooling. <i>Advanced Science</i> , 2022, 9, e2104758.   | 11.2 | 63        |
| 47 | Layer-by-Layer All-Inorganic Quantum-Dot-Based LEDs: A Simple Procedure with Robust Performance. <i>Advanced Functional Materials</i> , 2010, 20, 3298-3302.  | 14.9 | 61        |
| 48 | Finite element analysis of true and pseudo surface acoustic waves in one-dimensional phononic crystals. <i>Journal of Applied Physics</i> , 2016, 119, .  | 2.5  | 61        |
| 49 | Photonic band-gap effects upon the light emission from a dye-polymer-opal composite. <i>Applied Physics Letters</i> , 1999, 75, 1057-1059.  | 3.3  | 59        |
| 50 | Thermal conductivity and air-mediated losses in periodic porous silicon membranes at high temperatures. <i>Nature Communications</i> , 2017, 8, 415.  | 12.8 | 59        |
| 51 | Energy levels and exciton oscillator strength in submonolayer InAs-GaAs heterostructures. <i>Physical Review B</i> , 1995, 51, 14346-14351.   | 3.2  | 58        |
| 52 | Enhancement Photocatalytic Activity of the Heterojunction of Two-Dimensional Hybrid Semiconductors ZnO/V <sub>2</sub> O <sub>5</sub> . <i>Catalysts</i> , 2018, 8, 374.                                       | 3.5  | 58        |
| 53 | Nanopillars photonic crystal waveguides. <i>Optics Express</i> , 2004, 12, 617.   | 3.4  | 56        |
| 54 | Nanocrystal-Based Luminescent Composites for Nanoimprinting Lithography. <i>Small</i> , 2007, 3, 822-828.   | 10.0 | 55        |

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|----|---|------|-----------|
| 55 | Ordered 2D Colloidal Photonic Crystals on Gold Substrates by Surfactant-Assisted Fast Rate Dip Coating. <i>Small</i> , 2014, 10, 1895-1901.   | 10.0 | 55        |
| 56 | Photoluminescence of overgrown GaAs-GaAlAs quantum dots. <i>Superlattices and Microstructures</i> , 1989, 5, 459-463.   | 3.1  | 54        |
| 57 | 1.3 $\mu\text{m}$ luminescence and gain from defect-free InGaAs-GaAs quantum dots grown by metal-organic chemical vapour deposition. <i>Semiconductor Science and Technology</i> , 2000, 15, 604-607. | 2.0  | 54        |
| 58 | Nanoimprinted passive optical devices. <i>Nanotechnology</i> , 2002, 13, 581-586.   | 2.6  | 54        |
| 59 | Structuring of self-assembled three-dimensional photonic crystals by direct electron-beam lithography. <i>Applied Physics Letters</i> , 2003, 83, 5289-5291.  | 3.3  | 54        |
| 60 | Ultra-thin free-standing single crystalline silicon membranes with strain control. <i>Applied Physics Letters</i> , 2013, 102, .  | 3.3  | 54        |
| 61 | Quantifying the Robustness of Topological Slow Light. <i>Physical Review Letters</i> , 2021, 126, 027403.   | 7.8  | 54        |
| 62 | Elastic strains in GaAs/AlAs quantum dots studied by high-resolution x-ray diffraction. <i>Physical Review B</i> , 1995, 52, 8348-8357.   | 3.2  | 53        |
| 63 | Erasing diffraction orders: Opal versus Langmuir-Blodgett colloidal crystals. <i>Applied Physics Letters</i> , 2007, 90, 133101.  | 3.3  | 53        |
| 64 | Polymer issues in nanoimprinting technique. <i>Solid-State Electronics</i> , 1999, 43, 1079-1083.   | 1.4  | 52        |
| 65 | The Morphology of Graphene Sheets Treated in an Ozone Generator. <i>Journal of Physical Chemistry C</i> , 2011, 115, 18257-18260.   | 3.1  | 52        |
| 66 | Optical spectroscopic studies of InAs layer transformation on GaAs surfaces. <i>Physical Review B</i> , 1994, 50, 12171-12174.  | 3.2  | 50        |
| 67 | Emission in a SnS <sub>2</sub> inverted opaline photonic crystal. <i>Applied Physics Letters</i> , 2001, 79, 731-733.   | 3.3  | 50        |
| 68 | Reverse-contact UV nanoimprint lithography for multilayered structure fabrication. <i>Nanotechnology</i> , 2007, 18, 175303.  | 2.6  | 50        |
| 69 | Mechanisms behind the enhancement of thermal properties of graphene nanofluids. <i>Nanoscale</i> , 2018, 10, 15402-15409.   | 5.6  | 49        |
| 70 | Inelastic light scattering by longitudinal acoustic phonons in thin silicon layers: From membranes to silicon-on-insulator structures. <i>Physical Review B</i> , 2008, 77, .                         | 3.2  | 47        |
| 71 | Structural characterisation of slightly Fe-doped SrTiO <sub>3</sub> grown via a sol-gel hydrothermal synthesis. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 75, 593-601.                 | 2.4  | 47        |
| 72 | Optomechanic interaction in a corrugated phoxonic nanobeam cavity. <i>Physical Review B</i> , 2014, 89, .   | 3.2  | 46        |

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|----|--|------|-----------|
| 73 | Embedded inkjet printed silver grids for ITO-free organic solar cells with high fill factor. <i>Solar Energy Materials and Solar Cells</i> , 2014, 127, 50-57.   | 6.2  | 45        |
| 74 | Optical and mechanical properties of nanofibrillated cellulose: Toward a robust platform for next-generation green technologies. <i>Carbohydrate Polymers</i> , 2015, 126, 40-46.                                    | 10.2 | 45        |
| 75 | Growth and characterisation of quantum wells and selectively doped heterostructures of InP/Ga <sub>0.47</sub> In <sub>0.53</sub> As grown by solid source MBE. <i>Journal of Crystal Growth</i> , 1987, 81, 288-295. | 1.5  | 44        |
| 76 | Three Dimensional Photonic Crystals in the Visible Regime. <i>Progress in Electromagnetics Research</i> , 2003, 41, 307-335.   | 4.4  | 44        |
| 77 | Design of Hierarchical Surfaces for Tuning Wetting Characteristics. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 7701-7709.  | 8.0  | 44        |
| 78 | Synchronization of Optomechanical Nanobeams by Mechanical Interaction. <i>Physical Review Letters</i> , 2019, 123, 017402.   | 7.8  | 44        |
| 79 | Thermoreflectance techniques and Raman thermometry for thermal property characterization of nanostructures. <i>Journal of Applied Physics</i> , 2020, 128, .   | 2.5  | 44        |
| 80 | Nanoscale pillar hypersonic surface phononic crystals. <i>Physical Review B</i> , 2016, 94, .  | 3.2  | 43        |
| 81 | 2D Phononic Crystals: Progress and Prospects in Hypersound and Thermal Transport Engineering. <i>Advanced Functional Materials</i> , 2020, 30, 1904434.  | 14.9 | 43        |
| 82 | Raman scattering of coupled longitudinal optical phonon-plasmon modes in dry etched n-GaAs. <i>Journal of Applied Physics</i> , 1992, 71, 3754-3759.   | 2.5  | 42        |
| 83 | Radiative recombination in GaAs <sub>1-x</sub> Al <sub>x</sub> Ga <sub>1-x</sub> quantum dots. <i>Applied Physics Letters</i> , 1992, 61, 946-948.   | 3.3  | 42        |
| 84 | Observations of confined acoustic phonons in silicon membranes. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004, 1, 2609-2612.  | 0.8  | 42        |
| 85 | Electrocatalytic tuning of biosensing response through electrostatic or hydrophobic enzyme-graphene oxide interactions. <i>Biosensors and Bioelectronics</i> , 2014, 61, 655-662.                                    | 10.1 | 42        |
| 86 | High-temperature silicon thermal diode and switch. <i>Nano Energy</i> , 2020, 78, 105261.  | 16.0 | 42        |
| 87 | Thermal transport in suspended silicon membranes measured by laser-induced transient gratings. <i>AIP Advances</i> , 2016, 6, .  | 1.3  | 40        |
| 88 | Novel quantum confined structures via atmospheric pressure MOCVD growth in asbestos and opals. <i>Journal of Crystal Growth</i> , 1997, 170, 611-615.  | 1.5  | 39        |
| 89 | Surface-Directed Dewetting of a Block Copolymer for Fabricating Highly Uniform Nanostructured Microdroplets and Concentric Nanorings. <i>ACS Nano</i> , 2011, 5, 1073-1085.  | 14.6 | 39        |
| 90 | Electrical Detection of Spin Precession in Freely Suspended Graphene Spin Valves on Cross-Linked Poly(methyl methacrylate). <i>Small</i> , 2013, 9, 156-160.   | 10.0 | 39        |

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|-----|--|------|-----------|
| 91  | A self-stabilized coherent phonon source driven by optical forces. <i>Scientific Reports</i> , 2015, 5, 15733.   | 3.3  | 39        |
| 92  | Polymer stamps for nanoimprinting. <i>Microelectronic Engineering</i> , 2002, 61-62, 393-398.  | 2.4  | 38        |
| 93  | Optical properties of ordered three-dimensional arrays of structurally confined semiconductors. <i>Journal of Crystal Growth</i> , 1996, 159, 857-860.   | 1.5  | 37        |
| 94  | Nanoscale Imaging of InN Segregation and Polymorphism in Single Vertically Aligned InGaN/GaN Multi Quantum Well Nanorods by Tip-Enhanced Raman Scattering. <i>Nano Letters</i> , 2013, 13, 3205-3212.  | 9.1  | 37        |
| 95  | Thermal conductivity of MoS <sub>2</sub> polycrystalline nanomembranes. <i>2D Materials</i> , 2016, 3, 035016.   | 4.4  | 37        |
| 96  | Novel linear and crosslinking polymers for nanoimprinting with high etch resistance. <i>Microelectronic Engineering</i> , 2000, 53, 411-414.   | 2.4  | 36        |
| 97  | Integration of Self-Assembled Three-Dimensional Photonic Crystals onto Structured Silicon Wafers. <i>Langmuir</i> , 2006, 22, 7378-7383.   | 3.5  | 36        |
| 98  | Two-dimensional polymer photonic crystal band-edge lasers fabricated by nanoimprint lithography. <i>Applied Physics Letters</i> , 2007, 91, 151101.  | 3.3  | 36        |
| 99  | Characterization of process-induced strains in GaAs/Ga <sub>0.7</sub> Al <sub>0.3</sub> As quantum dots using room-temperature photoreflectance. <i>Applied Physics Letters</i> , 1994, 64, 2830-2832. | 3.3  | 35        |
| 100 | (2+1)-dimensional photonic crystals from Langmuir-Blodgett colloidal multilayers. <i>Applied Physics Letters</i> , 2006, 89, 043105.   | 3.3  | 35        |
| 101 | Measurement and modeling of the effective thermal conductivity of sintered silver pastes. <i>International Journal of Thermal Sciences</i> , 2016, 108, 185-194.                                       | 4.9  | 35        |
| 102 | Record Low Thermal Conductivity of Polycrystalline MoS <sub>2</sub> Films: Tuning the Thermal Conductivity by Grain Orientation. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 37905-37911. | 8.0  | 35        |
| 103 | Multicolor Emission on Prepatterned Substrates Using a Single Dye Species. <i>Advanced Materials</i> , 2007, 19, 2119-2123.  | 21.0 | 34        |
| 104 | Study of the Kinetics and Mechanism of Rapid Self-Assembly in Block Copolymer Thin Films during Solvo-Microwave Annealing. <i>Langmuir</i> , 2014, 30, 10728-10739.                                    | 3.5  | 34        |
| 105 | Optical properties of Si/Si <sub>0.87</sub> Ge <sub>0.13</sub> multiple quantum well wires. <i>Applied Physics Letters</i> , 1993, 63, 497-499.  | 3.3  | 33        |
| 106 | Optical properties of self-assembled arrays of InP quantum wires confined in nanotubes of chrysotile asbestos. <i>Journal of Applied Physics</i> , 1997, 82, 380-385.                                  | 2.5  | 32        |
| 107 | Self-assembly of three-dimensional photonic crystals on structured silicon wafers. <i>Applied Physics Letters</i> , 2002, 81, 2689-2691.   | 3.3  | 32        |
| 108 | Structure-related optical properties of luminescent hetero-opals. <i>Journal of Applied Physics</i> , 2004, 95, 1029-1035.   | 2.5  | 32        |

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|-----|---|------|-----------|
| 109 | Comparative structuralâ€“vibrational study of nano-urchin and nanorods of vanadium oxide. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 3285-3289.  | 1.5  | 32        |
| 110 | Probing the electron-phonon coupling in ozone-doped graphene by Raman spectroscopy. <i>Physical Review B</i> , 2010, 82, .  | 3.2  | 32        |
| 111 | Orthotropic Piezoelectricity in 2D Nanocellulose. <i>Scientific Reports</i> , 2016, 6, 34616.   | 3.3  | 32        |
| 112 | A comparison of thermally and photochemically cross-linked polymers for nanoimprinting. <i>Microelectronic Engineering</i> , 2003, 67-68, 266-273.  | 2.4  | 31        |
| 113 | Response to â€œComment on â€“Ground state exciton lasing in CdSe submonolayers inserted in a ZnSe matrixâ€™â€•[Appl. Phys. Lett.70, 2765 (1997)]. <i>Applied Physics Letters</i> , 1997, 70, 2766-2767.   | 3.3  | 30        |
| 114 | Suitability of new polymer materials with adjustable glass temperature for nano-imprinting. <i>Microelectronic Engineering</i> , 1999, 46, 431-434.   | 2.4  | 30        |
| 115 | Suppression of spontaneous emission in incomplete opaline photonic crystal. <i>Journal of Applied Physics</i> , 2002, 91, 9426-9428.  | 2.5  | 30        |
| 116 | Reflectivity behavior of opals of gold nanoparticle coated spheres. <i>Applied Physics Letters</i> , 2004, 84, 3960-3962.   | 3.3  | 30        |
| 117 | Quantitative analysis of lattice ordering in thin film opalâ€“based photonic crystals. <i>Advanced Functional Materials</i> , 2008, 18, 2471-2479.  | 14.9 | 30        |
| 118 | Noise-Assisted Crystallization of Opal Films. <i>Advanced Functional Materials</i> , 2012, 22, 1812-1821.   | 14.9 | 30        |
| 119 | Lasing in nanoimprinted two-dimensional photonic crystal band-edge lasers. <i>Applied Physics Letters</i> , 2013, 102, .  | 3.3  | 30        |
| 120 | Hypersonic phonon propagation in one-dimensional surface phononic crystal. <i>Applied Physics Letters</i> , 2014, 104, .  | 3.3  | 30        |
| 121 | Nanoparticle shape anisotropy and photoluminescence properties: Europium containing ZnO as a Model Case. <i>Nanoscale</i> , 2015, 7, 16969-16982.   | 5.6  | 30        |
| 122 | Fabrication of phononic crystals on free-standing silicon membranes. <i>Microelectronic Engineering</i> , 2016, 149, 41-45.   | 2.4  | 30        |
| 123 | Optical properties of Si/Si <sub>1-x</sub> G <sub>x</sub> heterostructure based wires. <i>Solid State Communications</i> , 1993, 85, 199-202.   | 1.9  | 29        |
| 124 | Photoluminescence of molecular beam epitaxial grown Al <sub>0.48</sub> In <sub>0.52</sub> As. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1994, 12, 1319. | 1.6  | 29        |
| 125 | Artificially inscribed defects in opal photonic crystals. <i>Microelectronic Engineering</i> , 2005, 78-79, 429-435.  | 2.4  | 29        |
| 126 | Understanding of transmission in the range of high-order photonic bands in thin opal film. <i>Applied Physics Letters</i> , 2008, 92, 191106.   | 3.3  | 29        |



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|-----|---|-----|-----------|
| 127 | Fabrication of highly ordered sub-20 nm silicon nanopillars by block copolymer lithography combined with resist design. <i>Journal of Materials Chemistry C</i> , 2013, 1, 3544.  | 5.5 | 28        |
| 128 | Anderson Photon-Phonon Colocalization in Certain Random Superlattices. <i>Physical Review Letters</i> , 2019, 122, 043903.  | 7.8 | 28        |
| 129 | Raman Scattering of Reactive-ion Etched GaAs. <i>Journal of Modern Optics</i> , 1988, 35, 365-370.  | 1.3 | 27        |
| 130 | The formation of nanotubes and nanocoils of molybdenum disulphide. <i>Applied Surface Science</i> , 2007, 253, 5185-5190.   | 6.1 | 27        |
| 131 | Core-Shell Tin Oxide, Indium Oxide, and Indium Tin Oxide Nanoparticles on Silicon with Tunable Dispersion: Electrochemical and Structural Characteristics as a Hybrid Li-Ion Battery Anode. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 8195-8202. | 8.0 | 27        |
| 132 | X-ray scattering from a single-quantum-well heterostructure. <i>Semiconductor Science and Technology</i> , 1987, 2, 241-243.  | 2.0 | 26        |
| 133 | Periodic thin-film interference filters as one-dimensional photonic crystals. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2001, 91, 484-489.  | 0.6 | 26        |
| 134 | Modification of the spontaneous emission of CdTe nanocrystals in TiO <sub>2</sub> inverted opals. <i>Journal of Applied Physics</i> , 2003, 94, 1205-1210.  | 2.5 | 26        |
| 135 | Surface plasmon resonance in gold nanoparticle infiltrated dielectric opals. <i>Journal of Applied Physics</i> , 2005, 97, 086103.  | 2.5 | 26        |
| 136 | Effects of lithium on the human erythrocyte membrane and molecular models. <i>Biophysical Chemistry</i> , 2007, 129, 36-42.   | 2.8 | 26        |
| 137 | Towards thiol functionalization of vanadium pentoxide nanotubes using gold nanoparticles. <i>Materials Research Bulletin</i> , 2007, 42, 674-685.   | 5.2 | 26        |
| 138 | Hierarchical surfaces for enhanced self-cleaning applications. <i>Journal of Micromechanics and Microengineering</i> , 2017, 27, 045020.  | 2.6 | 26        |
| 139 | Antibacterial activity testing methods for hydrophobic patterned surfaces. <i>Scientific Reports</i> , 2021, 11, 6675.  | 3.3 | 26        |
| 140 | Spontaneous emission control of colloidal nanocrystals using nanoimprinted photonic crystals. <i>Applied Physics Letters</i> , 2007, 90, 011115.  | 3.3 | 25        |
| 141 | High-resolution dry etching of zinc telluride: characterization of etched surfaces by X-ray photoelectron spectroscopy, photoluminescence and Raman scattering. <i>Semiconductor Science and Technology</i> , 1991, 6, A115-A122.                               | 2.0 | 24        |
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| 143 | Photoluminescence and photoreflectance study of Si/Si <sub>0.91</sub> Ge <sub>0.09</sub> and Si <sub>9</sub> /Ge <sub>6</sub> quantum dots. <i>Journal of Electronic Materials</i> , 1995, 24, 99-106.  | 2.2 | 24        |
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