

Javier Martín Sánchez

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

2,098
citations

279798

23
h-index

243625

44
g-index

65
all docs

65
docs citations

65
times ranked

2207
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | In-plane anisotropic and ultra-low-loss polaritons in a natural van der Waals crystal. <i>Nature</i> , 2018, 562, 557-562. | 27.8 | 506 |
| 2 | Strain-Tunable GaAs Quantum Dot: A Nearly Dephasing-Free Source of Entangled Photon Pairs on Demand. <i>Physical Review Letters</i> , 2018, 121, 033902. | 7.8 | 143 |
| 3 | Broad spectral tuning of ultra-low-loss polaritons in a van der Waals crystal by intercalation. <i>Nature Materials</i> , 2020, 19, 964-968. | 27.5 | 129 |
| 4 | Twisted Nano-Optics: Manipulating Light at the Nanoscale with Twisted Phonon Polaritonic Slabs. <i>Nano Letters</i> , 2020, 20, 5323-5329. | 9.1 | 126 |
| 5 | Wavelength-tunable sources of entangled photons interfaced with atomic vapours. <i>Nature Communications</i> , 2016, 7, 10375. | 12.8 | 106 |
| 6 | Infrared Permittivity of the Biaxial van der Waals Semiconductor In_2MoO_3 from Near- and Far-Field Correlative Studies. <i>Advanced Materials</i> , 2020, 32, e1908176. | 21.0 | 99 |
| 7 | Strain-Tunable Single Photon Sources in WSe_2 Monolayers. <i>Nano Letters</i> , 2019, 19, 6931-6936. | 9.1 | 71 |
| 8 | Energy-Tunable Sources of Entangled Photons: A Viable Concept for Solid-State-Based Quantum Relays. <i>Physical Review Letters</i> , 2015, 114, 150502. | 7.8 | 62 |
| 9 | Strain-tuning of the optical properties of semiconductor nanomaterials by integration onto piezoelectric actuators. <i>Semiconductor Science and Technology</i> , 2018, 33, 013001. | 2.0 | 58 |
| 10 | Enabling propagation of anisotropic polaritons along forbidden directions via a topological transition. <i>Science Advances</i> , 2021, 7, . | 10.3 | 53 |
| 11 | Single Photon Emission from Site-Controlled InAs Quantum Dots Grown on GaAs(001) Patterned Substrates. <i>ACS Nano</i> , 2009, 3, 1513-1517. | 14.6 | 50 |
| 12 | Planar refraction and lensing of highly confined polaritons in anisotropic media. <i>Nature Communications</i> , 2021, 12, 4325. | 12.8 | 48 |
| 13 | Ordered InAs quantum dots on pre-patterned GaAs (001) by local oxidation nanolithography. <i>Journal of Crystal Growth</i> , 2005, 284, 313-318. | 1.5 | 36 |
| 14 | Focusing of in-plane hyperbolic polaritons in van der Waals crystals with tailored infrared nanoantennas. <i>Science Advances</i> , 2021, 7, eabj0127. | 10.3 | 36 |
| 15 | Uniaxial stress flips the natural quantization axis of a quantum dot for integrated quantum photonics. <i>Nature Communications</i> , 2018, 9, 3058. | 12.8 | 35 |
| 16 | Low density InAs quantum dots with control in energy emission and top surface location. <i>Applied Physics Letters</i> , 2008, 93, 183106. | 3.3 | 34 |
| 17 | Formation of Lateral Low Density In(Ga)As Quantum Dot Pairs in GaAs Nanoholes. <i>Crystal Growth and Design</i> , 2009, 9, 2525-2528. | 3.0 | 33 |
| 18 | Site-controlled lateral arrangements of InAs quantum dots grown on GaAs(001) patterned substrates by atomic force microscopy local oxidation nanolithography. <i>Nanotechnology</i> , 2009, 20, 125302. | 2.6 | 27 |

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|----|---|------|-----------|
| 19 | Electrically-Pumped Wavelength-Tunable GaAs Quantum Dots Interfaced with Rubidium Atoms. ACS Photonics, 2017, 4, 868-872. | 6.6 | 27 |
| 20 | New process for high optical quality InAs quantum dots grown on patterned GaAs(001) substrates. Nanotechnology, 2007, 18, 355302. | 2.6 | 26 |
| 21 | Self-assembling of Ge quantum dots in an alumina matrix. Physical Review B, 2010, 82, . | 3.2 | 26 |
| 22 | Effect of Pt bottom electrode texture selection on the tetragonality and physical properties of Ba _{0.8} Sr _{0.2} TiO ₃ thin films produced by pulsed laser deposition. Journal of Applied Physics, 2012, 112, . | 2.5 | 23 |
| 23 | Reversible Control of In-Plane Elastic Stress Tensor in Nanomembranes. Advanced Optical Materials, 2016, 4, 682-687. | 7.3 | 23 |
| 24 | Inversion of the exciton built-in dipole moment in In(Ga)As quantum dots via nonlinear piezoelectric effect. Physical Review B, 2017, 96, . | 3.2 | 23 |
| 25 | Development of new high transparent hybrid organic-inorganic monoliths with surface engraved diffraction pattern. Journal of Polymer Science, Part B: Polymer Physics, 2012, 50, 492-499. | 2.1 | 22 |
| 26 | Atomic clouds as spectrally selective and tunable delay lines for single photons from quantum dots. Physical Review B, 2015, 92, . | 3.2 | 18 |
| 27 | Ordered InAs QDs using prepatterned substrates by monolithically integrated porous alumina. Journal of Crystal Growth, 2006, 294, 168-173. | 1.5 | 16 |
| 28 | Improvement of the fatigue and the ferroelectric properties of PZT films through a LSCO seed layer. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2013, 178, 1224-1229. | 3.5 | 15 |
| 29 | Structural and optical changes induced by incorporation of antimony into InAs/GaAs(001) quantum dots. Physical Review B, 2010, 82, . | 3.2 | 14 |
| 30 | Comparison of different bonding techniques for efficient strain transfer using piezoelectric actuators. Journal of Applied Physics, 2017, 121, 135303. | 2.5 | 13 |
| 31 | Active and Passive Tuning of Ultranarrow Resonances in Polaritonic Nanoantennas. Advanced Materials, 2022, 34, e2104954. | 21.0 | 13 |
| 32 | Photoluminescence and Stoichiometry Correlation in Nanocrystalline EuOx Thin Films: Tunable Color Emission. Journal of Physical Chemistry C, 2020, 124, 15434-15439. | 3.1 | 12 |
| 33 | Effects of dielectric stoichiometry on the photoluminescence properties of encapsulated WSe ₂ monolayers. Nano Research, 2018, 11, 1399-1414. | 10.4 | 12 |
| 34 | Carrier storage in Ge nanoparticles produced by pulsed laser deposition. Physica Status Solidi - Rapid Research Letters, 2012, 6, 223-225. | 2.4 | 11 |
| 35 | Experimental demonstration of the suppression of optical phonon splitting in 2D materials by Raman spectroscopy. 2D Materials, 2020, 7, 035017. | 4.4 | 11 |
| 36 | Structural and electrical studies of ultrathin layers with Si _{0.7} Ge _{0.3} nanocrystals confined in a SiGe/SiO ₂ superlattice. Journal of Applied Physics, 2012, 111, 104323. | 2.5 | 10 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | Micro-machining of PMN-PT Crystals with Ultrashort Laser Pulses. Applied Physics A: Materials Science and Processing, 2019, 125, 1. | 2.3 | 10 |
| 38 | New insights in the lattice dynamics of monolayers, bilayers, and trilayers of WSe ₂ and unambiguous determination of few-layer-flakes' thickness. 2D Materials, 2020, 7, 025004. | 4.4 | 10 |
| 39 | Charge trapping properties and retention time in amorphous SiGe/SiO ₂ nanolayers. Journal Physics D: Applied Physics, 2013, 46, 095306. | 2.8 | 9 |
| 40 | Improvement of InAs quantum dots optical properties in close proximity to GaAs(001) substrate surface. Journal of Crystal Growth, 2008, 310, 4676-4680. | 1.5 | 8 |
| 41 | Influence of annealing conditions on the formation of regular lattices of voids and Ge quantum dots in an amorphous alumina matrix. Nanotechnology, 2012, 23, 405605. | 2.6 | 8 |
| 42 | On the Large Near-Field Enhancement on Nanocolumnar Gold Substrates. Scientific Reports, 2019, 9, 13933. | 3.3 | 8 |
| 43 | Optomechanical tuning of the polarization properties of micropillar cavity systems with embedded quantum dots. Physical Review B, 2020, 101, . | 3.2 | 8 |
| 44 | Growth of Low-Density Vertical Quantum Dot Molecules with Control in Energy Emission. Nanoscale Research Letters, 2010, 5, 1913-1916. | 5.7 | 7 |
| 45 | A shadowed off-axis production of Ge nanoparticles in Ar gas atmosphere by pulsed laser deposition. Applied Physics A: Materials Science and Processing, 2013, 110, 585-590. | 2.3 | 7 |
| 46 | Extracting the Infrared Permittivity of SiO ₂ Substrates Locally by Near-Field Imaging of Phonon Polaritons in a van der Waals Crystal. Nanomaterials, 2021, 11, 120. | 4.1 | 7 |
| 47 | Shadowed off-axis production of Ge nanoparticles in Ar gas atmosphere by pulsed laser deposition: Morphological, structural and charge trapping properties. Applied Surface Science, 2013, 280, 632-640. | 6.1 | 6 |
| 48 | A frequency-tunable nanomembrane mechanical oscillator with embedded quantum dots. Applied Physics Letters, 2019, 115, . | 3.3 | 6 |
| 49 | SiGe layer thickness effect on the structural and optical properties of well-organized SiGe/SiO ₂ multilayers. Nanotechnology, 2017, 28, 345701. | 2.6 | 5 |
| 50 | Van der Waals Semiconductors: Infrared Permittivity of the Biaxial van der Waals Semiconductor In ₂ MoO ₃ from Near- and Far-Field Correlative Studies (Adv. Mater. 29/2020). Advanced Materials, 2020, 32, 2070220. | 21.0 | 5 |
| 51 | Surface Localization of Buried III-V Semiconductor Nanostructures. Nanoscale Research Letters, 2009, 4, 873-877. | 5.7 | 4 |
| 52 | Theoretical modelling of quaternary GaInAsSb/GaAs self-assembled quantum dots. Journal of Physics: Conference Series, 2010, 245, 012081. | 0.4 | 4 |
| 53 | Ferroelectric switching behavior of pulsed laser deposited Ba _{0.8} Sr _{0.2} TiO ₃ thin films. Current Applied Physics, 2012, 12, 1144-1147. | 2.4 | 4 |
| 54 | Ge nanocrystals with highly uniform size distribution deposited on alumina at room temperature by pulsed laser deposition: structural, morphological, and charge trapping properties. Journal of Nanoparticle Research, 2012, 14, 1. | 1.9 | 3 |

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|----|---|-----|-----------|
| 55 | Size-controlled Ge nanostructures for enhanced Er ³⁺ light emission. Optics Letters, 2014, 39, 4691. | 3.3 | 3 |
| 56 | IBA study of SiGe/SiO ₂ nanostructured multilayers. Nuclear Instruments & Methods in Physics Research B, 2014, 331, 89-92. | 1.4 | 3 |
| 57 | Optical studies of amorphous Ge nanostructures in Al ₂ O ₃ produced by pulsed laser deposition. Thin Solid Films, 2013, 541, 92-96. | 1.8 | 2 |
| 58 | Influence of strain relaxation in axial $\text{In}_x\text{Ga}_{1-x}\text{N}/\text{GaN}$ nanowire heterostructures on their electronic properties. Nanotechnology, 2017, 28, 215204. | 2.6 | 2 |
| 59 | Emission properties of single InAs/GaAs quantum dot pairs and molecules grown in GaAs nanoholes. Journal of Physics: Conference Series, 2010, 210, 012028. | 0.4 | 1 |
| 60 | Influence of RF-sputtering power on formation of vertically stacked Si _{1-x} Ge _x nanocrystals between ultra-thin amorphous Al ₂ O ₃ layers: structural and photoluminescence properties. Journal Physics D: Applied Physics, 2013, 46, 385301. | 2.8 | 1 |
| 61 | Publisher's Note: Structural and optical changes induced by incorporation of antimony into InAs/GaAs(001) quantum dots [Phys. Rev. B82, 235316 (2010)]. Physical Review B, 2010, 82, . | 3.2 | 0 |
| 62 | Structural and Electrical Properties of Nanostructured Ba _{0.8} Sr _{0.2} TiO ₃ Films Deposited by Pulsed Laser Deposition. Journal of Nano Research, 2012, 18-19, 299-306. | 0.8 | 0 |
| 63 | (Invited) Exploring the Potential of Si and Ge Amorphous Nanostructures for Photonic Applications. ECS Transactions, 2013, 53, 17-29. | 0.5 | 0 |
| 64 | Fabrication of Semiconductor Quantum Dot Molecules: Droplet Epitaxy and Local Oxidation Nanolithography Techniques. Lecture Notes in Nanoscale Science and Technology, 2014, , 1-28. | 0.8 | 0 |
| 65 | Site controlled InAs/GaAs nanostructures on Si nano-tips. , 2017, , . | | 0 |