Juan MartÃ-nez-Pastor

List of Publications by Year
in descending order

247	5,549	42	62
papers	citations	h-index	g-index
		66343	118850

251	251	251	7307
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electronic structure, optical properties, and lattice dynamics in atomically thin indium selenide flakes. Nano Research, 2014, 7, 1556-1568.	10.4	160
2	Development of self-assembled bacterial celluloseâ€"starch nanocomposites. Materials Science and Engineering C, 2009, 29, 1098-1104.	7.3	158
3	Nanotexturing To Enhance Photoluminescent Response of Atomically Thin Indium Selenide with Highly Tunable Band Gap. Nano Letters, 2016, 16, 3221-3229.	9.1	155
4	Delayed Luminescence in Lead Halide Perovskite Nanocrystals. Journal of Physical Chemistry C, 2017, 121, 13381-13390.	3.1	148
5	Three-Dimensional Axisymmetric Cloak Based on the Cancellation of Acoustic Scattering from a Sphere. Physical Review Letters, 2013, 110, 124301.	7.8	138
6	Influence of buffer-layer surface morphology on the self-organized growth of InAs on InP(001) nanostructures. Applied Physics Letters, 2000, 76, 1104-1106.	3.3	133
7	Electrical and photovoltaic properties of indiumâ€tinâ€oxide/pâ€InSe/Au solar cells. Journal of Applied Physics, 1987, 62, 1477-1483.	2.5	118
8	Temperature dependence of exciton lifetimes in GaAs/AlxGa1â^'xAs single quantum wells. Physical Review B, 1993, 47, 10456-10460.	3.2	104
9	Plasmonic Communications: Light on a Wire. Optics and Photonics News, 2013, 24, 28.	0.5	98
10	Complete ground state gain recovery after ultrashort double pulses in quantum dot based semiconductor optical amplifier. Applied Physics Letters, 2007, 90, 033508.	3.3	90
11	Exciton thermalization in quantum-well structures. Physical Review B, 1994, 50, 11817-11826.	3.2	83
12	Polymer/Perovskite Amplifying Waveguides for Active Hybrid Silicon Photonics. Advanced Materials, 2015, 27, 6157-6162.	21.0	83
13	Thermal escape of carriers out of GaAs/AlxGa1â^'xAs quantum-well structures. Physical Review B, 1992, 46, 6922-6927.	3.2	79
14	Laser-Ablation-Induced Synthesis of SiO₂-Capped Noble Metal Nanoparticles in a Single Step. Langmuir, 2010, 26, 7458-7463.	3.5	77
15	High-resolution electron-beam patternable nanocomposite containing metal nanoparticles for plasmonics. Nanotechnology, 2008, 19, 355308.	2.6	75
16	Toward Metal Halide Perovskite Nonlinear Photonics. Journal of Physical Chemistry Letters, 2018, 9, 5612-5623.	4.6	73
17	Acoustic cloak for airborne sound by inverse design. Applied Physics Letters, 2011, 99, .	3.3	72
18	Silicon Nanocrystals Produced by Nanosecond Laser Ablation in an Organic Liquid. Journal of Physical Chemistry C, 2011, 115, 5147-5151.	3.1	66

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19	Photoluminescence waveguiding in CdSe and CdTe QDsâ€“PMMA nanocomposite films. Nanotechnology, 2011, 22, 435202.	2.6	66
20	Tunable light emission by exciplex state formation between hybrid halide perovskite and core/shell quantum dots: Implications in advanced LEDs and photovoltaics. Science Advances, 2016, 2, e1501104.	10.3	66
21	Optical transitions and excitonic recombination in InAs/InP self-assembled quantum wires. Applied Physics Letters, 2001, 78, 4025-4027.	3.3	65
22	Enhancement of the Performance of Perovskite Solar Cells, LEDs, and Optical Amplifiers by Antiâ€Solvent Additive Deposition. Advanced Materials, 2017, 29, 1604056.	21.0	63
23	Three-dimensional electrons and two-dimensional electric subbands in the transport properties of tin-dopedn-type indium selenide: Polar and homopolar phonon scattering. Physical Review B, 1991, 43, 4953-4965.	3.2	61
24	Oscillator strength reduction induced by external electric fields in self-assembled quantum dots and rings. Physical Review B, 2007, 75, .	3.2	60
25	Localized surface plasmon resonance sensor based on Ag-PVA nanocomposite thin films. Journal of Materials Chemistry, 2009, 19, 9233.	6.7	59
26	Well-width and aluminum-concentration dependence of the exciton binding energies in GaAs/AlxGa1â^’xAs quantum wells. Physical Review B, 1993, 47, 15755-15762.	3.2	57
27	Enhancing the photocatalytic properties of PbS QD solids: the ligand exchange approach. Nanoscale, 2019, 11, 1978-1987.	5.6	56
28	Novel Method of Preparation of Goldâ€Nanoparticleâ€Doped TiO₂ and SiO₂ Plasmonic Thin Films: Optical Characterization and Comparison with Maxwellâ€“Garnett Modeling. Advanced Functional Materials, 2011, 21, 3502-3507.	14.9	55
29	Morphological Characterisation of Bacterial Cellulose-Starch Nanocomposites. Polymers and Polymer Composites, 2008, 16, 181-185.	1.9	54
30	Outstanding nonlinear optical properties of methylammonium- and Cs-PbX3 (X = Br, I, and Brâ€“I) perovskites: Polycrystalline thin films and nanoparticles. APL Materials, 2019, 7, .	5.1	53
31	Auâ€“ZnO Nanocomposite Films for Plasmonic Photocatalysis. Advanced Materials Interfaces, 2015, 2, 1500156.	3.7	51
32	Hole polarization and slow hole-spin relaxation in ann-doped quantum-well structure. Physical Review B, 1992, 46, 7292-7295.	3.2	50
33	Scanning x-ray excited optical luminescence microscopy in GaN. Applied Physics Letters, 2006, 89, 221913.	3.3	50
34	Single Photon Emission from Site-Controlled InAs Quantum Dots Grown on GaAs(001) Patterned Substrates. ACS Nano, 2009, 3, 1513-1517.	14.6	50
35	Single quantum dot emission at telecom wavelengths from metamorphic InAs/InGaAs nanostructures grown on GaAs substrates. Applied Physics Letters, 2011, 98, .	3.3	50
36	Transport properties of bismuth sulfide single crystals. Physical Review B, 1987, 35, 9586-9590.	3.2	49

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37	Near thresholdless laser operation at room temperature. Optica, 2015, 2, 66.	9.3	48
38	Continuum and discrete excitation spectrum of single quantum rings. Physical Review B, 2005, 72, .	3.2	47
39	Plasmonic versus catalytic effect of gold nanoparticles on mesoporous TiO2 electrodes for water splitting. Electrochimica Acta, 2014, 144, 64-70.	5.2	46
40	Trap-Limited Dynamics of Excited Carriers and Interpretation of the Photoluminescence Decay Kinetics in Metal Halide Perovskites. Journal of Physical Chemistry Letters, 2018, 9, 4955-4962.	4.6	46
41	Single-Exciton Amplified Spontaneous Emission in Thin Films of CsPbX₃ (X = Br, I) Perovskite Nanocrystals. Journal of Physical Chemistry Letters, 2019, 10, 6389-6398.	4.6	46
42	Polymer/QDs Nanocomposites for Waveguiding Applications. Journal of Nanomaterials, 2012, 2012, 1-9.	2.7	43
43	Formation and optical characterization of single InAs quantum dots grown on GaAs nanoholes. Applied Physics Letters, 2007, 91, 163104.	3.3	39
44	Optical properties of different polymer thin films containing in situ synthesized Ag and Au nanoparticles. New Journal of Chemistry, 2009, 33, 1720.	2.8	39
45	Birefringent porous silicon membranes for optical sensing. Optics Express, 2011, 19, 26106.	3.4	39
46	Size control of InAsâˆ•InP(001) quantum wires by tailoring Pâˆ•As exchange. Applied Physics Letters, 2004, 85, 1424-1426.	3.3	38
47	A novel method of nanocrystal fabrication based on laser ablation in liquid environment. Superlattices and Microstructures, 2008, 43, 487-493.	3.1	37
48	Scalable heterogeneous synthesis of metallic nanoparticles and aggregates with polyvinyl alcohol. New Journal of Chemistry, 2009, 33, 913.	2.8	37
49	The effect of quantum size confinement on the optical properties of PbSe nanocrystals as a function of temperature and hydrostatic pressure. Nanotechnology, 2013, 24, 205701.	2.6	37
50	Plasmonic optical sensors printed from Agâ€“PVA nanoinks. Journal of Materials Chemistry C, 2014, 2, 908-915.	5.5	37
51	Shallow-donor impurities in indium selenide investigated by means of far-infrared spectroscopy. Physical Review B, 1992, 46, 4607-4616.	3.2	36
52	Au-PVA Nanocomposite Negative Resist for One-Step Three-Dimensional e-Beam Lithography. Langmuir, 2010, 26, 2825-2830.	3.5	35
53	Ag and Au/DNQ-novolac nanocomposites patternable by ultraviolet lithography: a fast route to plasmonic sensor microfabrication. Journal of Materials Chemistry, 2010, 20, 7436.	6.7	34
54	All-Optical Fiber Hanbury Brown & Twiss Interferometer to study 1300â€‰nm single photon emission of a metamorphic InAs Quantum Dot. Scientific Reports, 2016, 6, 27214.	3.3	30

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55	Interpretation of the photoluminescence decay kinetics in metal halide perovskite nanocrystals and thin polycrystalline films. Journal of Luminescence, 2020, 221, 117092.	3.1	30
56	Plasmonic layers based on Au-nanoparticle-doped TiO₂for optoelectronics: structural and optical properties. Nanotechnology, 2013, 24, 065202.	2.6	29
57	Thickness identification of atomically thin InSe nanoflakes on SiO2/Si substrates by optical contrast analysis. Applied Surface Science, 2015, 354, 453-458.	6.1	29
58	Single step deposition of an interacting layer of a perovskite matrix with embedded quantum dots. Nanoscale, 2016, 8, 14379-14383.	5.6	29
59	White light emission from lead-free mixed-cation doped Cs₂SnCl₆ nanocrystals. Nanoscale, 2022, 14, 1468-1479.	5.6	29
60	InGaAs Quantum Dots Coupled to a Reservoir of Nonequilibrium Free Carriers. IEEE Journal of Quantum Electronics, 2009, 45, 1121-1128.	1.9	28
61	Effect of a lateral electric field on an off-center single dopant confined in a thin quantum disk. Journal of Applied Physics, 2012, 111, .	2.5	28
62	Charge control in laterally coupled double quantum dots. Physical Review B, 2011, 84, .	3.2	27
63	Purcell effect in photonic crystal microcavities embedding InAs/InP quantum wires. Optics Express, 2012, 20, 7901.	3.4	27
64	Temperature Sensor Based on Colloidal Quantum Dotsâ€“PMMA Nanocomposite Waveguides. IEEE Sensors Journal, 2012, 12, 3069-3074.	4.7	26
65	Photonic Crystalâ€Driven Spectral Concentration for Upconversion Photovoltaics. Advanced Optical Materials, 2015, 3, 568-574.	7.3	26
66	Size and emission wavelength control of InAsâˆ•InP quantum wires. Journal of Applied Physics, 2005, 98, 033502.	2.5	25
67	Quantum-Dot Double Layer Polymer Waveguides by Evanescent Light Coupling. Journal of Lightwave Technology, 2013, 31, 2515-2525.	4.6	25
68	Facile laser-assisted synthesis of inorganic nanoparticles covered by a carbon shell with tunable luminescence. RSC Advances, 2015, 5, 50604-50610.	3.6	25
69	Strongly-coupled PbS QD solids by doctor blading for IR photodetection. RSC Advances, 2016, 6, 80201-80212.	3.6	25
70	On the anomalous Stark effect in a thin disc-shaped quantum dot. Journal of Physics Condensed Matter, 2010, 22, 375301.	1.8	24
71	Random population model to explain the recombination dynamics in single InAs/GaAs quantum dots under selective optical pumping. New Journal of Physics, 2011, 13, 023022.	2.9	24
72	Production of Nanometer-Size GaAs Nanocristals by Nanosecond Laser Ablation in Liquid. Journal of Nanoscience and Nanotechnology, 2012, 12, 6774-6778.	0.9	24

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73	Molecular-mediated assembly of silver nanoparticles with controlled interparticle spacing and chain length. Journal of Materials Chemistry, 2012, 22, 22204.	6.7	24
74	Efficient Optical Amplification in a Sandwich-Type Active-Passive Polymer Waveguide Containing Perylenediimides. ACS Photonics, 2017, 4, 114-120.	6.6	24
75	Integrated Optical Amplifierâ€“Photodetector on a Wearable Nanocellulose Substrate. Advanced Optical Materials, 2018, 6, 1800201.	7.3	24
76	Short Photoluminescence Lifetimes in Vacuum-Deposited CH₃NH₃PbI₃ Perovskite Thin Films as a Result of Fast Diffusion of Photogenerated Charge Carriers. Journal of Physical Chemistry Letters, 2019, 10, 5167-5172.	4.6	24
77	Molecularly imprinted nanocomposites of CsPbBr₃ nanocrystals: an approach towards fast and selective gas sensing of explosive taggants. Journal of Materials Chemistry C, 2022, 10, 1754-1766.	5.5	24
78	Charge Transport in Trap-Sensitized Infrared PbS Quantum-Dot-Based Photoconductors: Pros and Cons. Nanomaterials, 2018, 8, 677.	4.1	23
79	Tuning optical/electrical properties of 2D/3D perovskite by the inclusion of aromatic cation. Physical Chemistry Chemical Physics, 2018, 20, 30189-30199.	2.8	22
80	Structural and chemical characterization of CdSe-ZnS core-shell quantum dots. Applied Surface Science, 2018, 457, 93-97.	6.1	22
81	Purcell Enhancement and Wavelength Shift of Emitted Light by CsPbI₃ Perovskite Nanocrystals Coupled to Hyperbolic Metamaterials. ACS Photonics, 2020, 7, 3152-3160.	6.6	22
82	Isolated self-assembled InAs/InP(001) quantum wires obtained by controlling the growth front evolution. Nanotechnology, 2007, 18, 035604.	2.6	21
83	Resist-based silver nanocomposites synthesized by lithographic methods. Microelectronic Engineering, 2010, 87, 1147-1149.	2.4	21
84	Color Tuning and White Light by Dispersing CdSe, CdTe, and CdS in PMMA Nanocomposite Waveguides. IEEE Photonics Journal, 2013, 5, 2201412-2201412.	2.0	21
85	Quantum size confinement in gallium selenide nanosheets: band gap tunability versus stability limitation. Nanotechnology, 2017, 28, 175701.	2.6	21
86	Optical studies of gap, hopping energies, and the Anderson-Hubbard parameter in the zigzag-chain compoundSrCuO2. Physical Review B, 2001, 63, .	3.2	20
87	Exciton Gas Compression and Metallic Condensation in a Single Semiconductor Quantum Wire. Physical Review Letters, 2008, 101, 067405.	7.8	20
88	Real-time polarimetric optical sensor using macroporous alumina membranes. Optics Letters, 2013, 38, 1058.	3.3	20
89	Engineering light emission of two-dimensional materials in both the weak and strong coupling regimes. Nanophotonics, 2018, 7, 253-267.	6.0	20
90	Size dependent carrier thermal escape and transfer in bimodally distributed self assembled InAs/GaAs quantum dots. Journal of Applied Physics, 2012, 111, .	2.5	19

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91	Propagation length enhancement of surface plasmon polaritons in gold nano-/micro-waveguides by the interference with photonic modes in the surrounding active dielectrics. Nanophotonics, 2017, 6, 1109-1120.	6.0	19
92	Ligand-Length Modification in CsPbBr3 Perovskite Nanocrystals and Bilayers with PbS Quantum Dots for Improved Photodetection Performance. Nanomaterials, 2020, 10, 1297.	4.1	19
93	Patterning of Conducting Polymers Using UV Lithography: The in-Situ Polymerization Approach. Journal of Physical Chemistry C, 2012, 116, 17547-17553.	3.1	18
94	Optical contrast of 2D InSe on SiO₂/Si and transparent substrates using bandpass filters. Nanotechnology, 2017, 28, 115706.	2.6	18
95	Optical Optimization of the TiO₂ Mesoporous Layer in Perovskite Solar Cells by the Addition of SiO₂ Nanoparticles. ACS Omega, 2018, 3, 9798-9804.	3.5	18
96	Homogeneous and inhomogeneous broadening in single perovskite nanocrystals investigated by micro-photoluminescence. Journal of Luminescence, 2021, 240, 118453.	3.1	18
97	Exciton recombination dynamics inInAsâˆ•InPself-assembled quantum wires. Physical Review B, 2005, 71, .	3.2	17
98	Efficient excitation of photoluminescence in a two-dimensional waveguide consisting of a quantum dot-polymer sandwich-type structure. Optics Letters, 2014, 39, 4962.	3.3	17
99	Molecularly Imprinted Silver Nanocomposites for Explosive Taggant Sensing. ACS Applied Polymer Materials, 2021, 3, 2960-2970.	4.4	17
100	Synthesis and Physical Stability of Novel Au-Ag@SiO₂ Alloy Nanoparticles. Nanoscience and Nanotechnology, 2012, 2, 1-7.	1.0	17
101	High accuracy Raman measurements using the Stokes and anti-Stokes lines. Journal of Applied Physics, 1997, 82, 3976-3982.	2.5	16
102	Excitonic recombination dynamics in shallow quantum wells. Physical Review B, 1998, 58, 7076-7085.	3.2	16
103	Selective optical pumping of charged excitons in unintentionally doped InAs quantum dots. Nanotechnology, 2008, 19, 145711.	2.6	16
104	Continuous-wave dual-wavelength operation at 1062 and 1338nm in Nd3+:YAl3(BO3)4 and observation of yellow laser light generation at 592nm by their self-sum-frequency-mixing. Optics Communications, 2009, 282, 1619-1621.	2.1	16
105	Phase-Sensitive Detection for Optical Sensing With Porous Silicon. IEEE Photonics Journal, 2012, 4, 986-995.	2.0	16
106	Simulation of surface-modified porous silicon photonic crystals for biosensing applications. Photonics and Nanostructures - Fundamentals and Applications, 2012, 10, 304-311.	2.0	16
107	Two-Color Single-Photon Emission from InAs Quantum Dots: Toward Logic Information Management Using Quantum Light. Nano Letters, 2014, 14, 456-463.	9.1	16
108	UV-patternable nanocomposite containing CdSe and PbS quantum dots as miniaturized luminescent chemo-sensors. RSC Advances, 2015, 5, 19874-19883.	3.6	16

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109	Optical Contrast and Raman Spectroscopy Techniques Applied to Few-Layer 2D Hexagonal Boron Nitride. Nanomaterials, 2019, 9, 1047.	4.1	16
110	The stokes shift in good quality quantum well structures. Solid State Communications, 1994, 91, 931-935.	1.9	15
111	Lateral induced dipole moment and polarizability of excitons in a ZnO single quantum disk. Journal of Applied Physics, 2013, 113, 064314.	2.5	15
112	Enhanced Nonlinear Optical Coefficients of MAPbI3 Thin Films by Bismuth Doping. Journal of Physical Chemistry Letters, 2020, 11, 2188-2194.	4.6	15
113	Polarimetric Plasmonic Sensing with Bowtie Nanoantenna Arrays. Plasmonics, 2015, 10, 703-711.	3.4	14
114	Extrinsic Effects on the Optical Properties of Surface Color Defects Generated in Hexagonal Boron Nitride Nanosheets. ACS Applied Materials & Interfaces, 2021, 13, 46105-46116.	8.0	14
115	Lateral carrier tunnelling in stacked In(Ga)As/GaAs quantum rings. European Physical Journal B, 2006, 54, 217-223.	1.5	13
116	Excitation power dependence of the Purcell effect in photonic crystal microcavity lasers with quantum wires. Applied Physics Letters, 2013, 102, 201105.	3.3	13
117	Suppressing the Formation of High <i>n</i>-Phase and 3D Perovskites in the Fabrication of Ruddlesdenâ€“Popper Perovskite Thin Films by Bulky Organic Cation Engineering. Chemistry of Materials, 2022, 34, 3076-3088.	6.7	13
118	Emission wavelength engineering of InAs/InP(001) quantum wires. European Physical Journal B, 2004, 40, 433-437.	1.5	12
119	Continuous-Wave Yellow Laser Based on Nd-Doped Periodically Poled Lithium Niobate. IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 750-755.	2.9	12
120	Genetic algorithm designed silicon integrated photonic lens operating at 1550 nm. Applied Physics Letters, 2010, 97, 071115.	3.3	12
121	Laser ablation of a silicon target in chloroform: formation of multilayer graphite nanostructures. Journal Physics D: Applied Physics, 2013, 46, 135301.	2.8	12
122	High spatial resolution mapping of individual and collective localized surface plasmon resonance modes of silver nanoparticle aggregates: correlation to optical measurements. Nanoscale Research Letters, 2015, 10, 1024.	5.7	12
123	Polymer waveguide couplers based on metal nanoparticleâ€“polymer nanocomposites. Nanotechnology, 2015, 26, 475201.	2.6	12
124	Inhomogeneous Broadening of Photoluminescence Spectra and Kinetics of Nanometer-Thick (Phenethylammonium)₂PbI₄ Perovskite Thin Films: Implications for Optoelectronics. ACS Applied Nano Materials, 2021, 4, 6170-6177.	5.0	12
125	Shape dependent electronic structure and exciton dynamics in small In(Ga)As quantum dots. European Physical Journal B, 2006, 54, 471-477.	1.5	11
126	InAsâˆ•InP single quantum wire formation and emission at 1.5Î¼m. Applied Physics Letters, 2006, 89, 233126.	3.3	11

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127	Localization effects on recombination dynamics in InAs/InP self-assembled quantum wires emitting at 1.5â€‰<i>Î¼</i>m. Journal of Applied Physics, 2011, 110, .	2.5	11
128	Bowtie plasmonic nanoantenna arrays for polarimetric optical biosensing. , 2014, , .		11
129	Time resolved emission at 1.3 Î¼m of a single InAs quantum dot by using a tunable fibre Bragg grating. Nanotechnology, 2014, 25, 035204.	2.6	11
130	MWP phase shifters integrated in PbS-SU8 waveguides. Optics Express, 2015, 23, 14351.	3.4	11
131	Out-of-plane trion emission in monolayer WSe2 revealed by whispering gallery modes of dielectric microresonators. Communications Materials, 2021, 2, .	6.9	11
132	Magneto-Excitons in Semiconductor Quantum Rings. Physica Status Solidi A, 2002, 190, 781-785.	1.7	10
133	Absorption spectroscopy of single InAs self-assembled quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 21, 395-399.	2.7	10
134	Effect of carrier transfer on the PL intensity in self-assembled In (Ga) As/GaAs quantum rings. EPJ Applied Physics, 2006, 35, 159-163.	0.7	10
135	Colloidal Quantum Dots-PMMA Waveguides as Integrable Microwave Photonic Phase Shifters. IEEE Photonics Technology Letters, 2014, 26, 402-404.	2.5	10
136	Optical properties of an exciton bound to an ionized impurity in ZnO/SiO2 quantum dots. Solid State Communications, 2015, 209-210, 33-37.	1.9	10
137	Mechanisms of Spontaneous and Amplified Spontaneous Emission in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msub><mml:mi>CH</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi>NH</mml:mi><m mathvariant="normal">I</mml:mi></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:math> Perovskite Thin Films Integrated in an Optical Waveguide. Physical Review Applied, 2020, 13, .	3.8	10
138	Luminescent CdSe Quantum Dot Arrays for Rapid Sensing of Explosive Taggants. ACS Applied Nano Materials, 2022, 5, 6717-6725.	5.0	10
139	Highâ€temperature behavior of impurities and dimensionality of the charge transport in unintentionally and tinâ€doped indium selenide. Journal of Applied Physics, 1993, 74, 3231-3237.	2.5	9
140	Optical study of good quality InGaP/GaAs quantum wells: Influence of the indium content around the latticeâ€matched composition. Applied Physics Letters, 1996, 68, 2111-2113.	3.3	9
141	Exciton, biexciton and trion recombination dynamics in a single quantum dot under selective optical pumping. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 2100-2103.	2.7	9
142	Multilayers of CdSe/CdS/ZnCdS Core/Wings/Shell Nanoplatelets Integrated in a Polymer Waveguide. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 1-8.	2.9	9
143	Purcell-enhancement of the radiative PL decay in perylenediimides by coupling with silver nanoparticles into waveguide modes. Applied Physics Letters, 2017, 111, .	3.3	9
144	Enhanced optical response of InSe nanosheet devices decorated with CsPbX3 (XÂ=Âl, Br) perovskite nanocrystals. Applied Surface Science, 2021, 536, 147939.	6.1	9

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145	Enhanced nanoscopy of individual CsPbBr3 perovskite nanocrystals using dielectric sub-micrometric antennas. APL Materials, 2020, 8, 021109.	5.1	9
146	Exciton delocalization in thin double-barrier GaAs/AlAs/(Al,Ga)As quantum-well structures. Physical Review B, 1992, 46, 2239-2243.	3.2	8
147	Localization in highly strained In0.35Ga0.65As/GaAs ultrathin quantum wells. Superlattices and Microstructures, 1993, 14, 39.	3.1	8
148	Influence of miniband widths and interface disorder on vertical transport in superlattices. Physical Review B, 1993, 47, 10625-10632.	3.2	8
149	Exciton states and relaxation dynamics in shallow quantum wells. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1995, 17, 1493-1498.	0.4	8
150	Optical characterization of disordered InxGa1âˆ’xP alloys. Applied Physics Letters, 1998, 72, 2595-2597.	3.3	8
151	Vertical stacks of small InAs/GaAs self-assembled dots: resonant and non-resonant excitation. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 17, 46-49.	2.7	8
152	Exciton and multiexciton optical properties of single InAs/GaAs site-controlled quantum dots. Applied Physics Letters, 2013, 103, .	3.3	8
153	Photoconductivity and optical properties of silicon coated by thin TiO₂ film <i>in situ</i> doped by Au nanoparticles. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 687-694.	1.8	8
154	Excitonic complexes in GaN/(Al,Ga)N quantum dots. Journal of Physics Condensed Matter, 2017, 29, 105302.	1.8	8
155	In-situ synthesis of thiophene-based multifunctional polymeric networks with tunable conductivity and high photolithographic performance. Polymer, 2017, 108, 413-422.	3.8	8
156	All optical switching of a single photon stream by excitonic depletion. Communications Physics, 2020, 3, .	5.3	8
157	Directional and Polarized Lasing Action on Pbâ€free FASnI₃ Integrated in Flexible Optical Waveguides. Advanced Optical Materials, 2022, 10, .	7.3	8
158	Above-barrier resonant transitions inAlxGa1âˆ’xAs/AlAs/GaAs heterostructures. Physical Review B, 1993, 48, 8089-8094.	3.2	7
159	Energy of excitons and acceptorâ€“exciton complexes to explain the origin of ultraviolet photoluminescence in ZnO quantum dots embedded in a SiO2 matrix. Solid State Communications, 2011, 151, 822-825.	1.9	7
160	Highly-sensitive anisotropic porous silicon based optical sensors. Proceedings of SPIE, 2012, , .	0.8	7
161	The effect of high-In content capping layers on low-density bimodal-sized InAs quantum dots. Journal of Applied Physics, 2013, 113, 194306.	2.5	7
162	Crystalline-Size Dependence of Dual Emission Peak on Hybrid Organic Lead-Iodide Perovskite Films at Low Temperatures. Journal of Physical Chemistry C, 2018, 122, 22717-22727.	3.1	7

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163	Recycled Photons Traveling Several Millimeters in Waveguides Based on CsPbBr₃ Perovskite Nanocrystals. Advanced Optical Materials, 2021, 9, 2100807.	7.3	7
164	Excitonic absorption and Urbach's tail in bismuth sulfide single crystals. Applied Physics A: Solids and Surfaces, 1988, 45, 125-132.	1.4	6
165	Optical study of vertical transport inCd0.82Mn0.18Te/CdTe superlattices. Physical Review B, 1993, 48, 11871-11878.	3.2	6
166	Band Alignments in InxGa1xP/GaAs Heterostructures Investigated by Pressure Experiments. Physica Status Solidi A, 2000, 178, 571-576.	1.7	6
167	Electrical control of a laterally ordered InAs/InP quantum dash array. Nanotechnology, 2009, 20, 475202.	2.6	6
168	MBE growth and properties of lowâ€density InAs/GaAs quantum dot structures. Crystal Research and Technology, 2011, 46, 801-804.	1.3	6
169	Properties of silicon integrated photonic lenses: bandwidth, chromatic aberration, and polarization dependence. Optical Engineering, 2013, 52, 091710.	1.0	6
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