Armando Rastelli

List of Publications by Year
in descending order

280	11,138	18436 62	40881 93
papers	citations	h-index	g-index

284	284	284	7060
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Stretchable Graphene: A Close Look at Fundamental Parameters through Biaxial Straining. Nano Letters, 2010, 10, 3453-3458.	4.5	328
2	Precise control of thermal conductivity at the nanoscale through individual phonon-scattering barriers. Nature Materials, 2010, 9, 491-495.	13.3	321
3	A solid-state source of strongly entangled photon pairs with high brightness and indistinguishability. Nature Nanotechnology, 2019, 14, 586-593.	15.6	303
4	Triggered polarization-entangled photon pairs from a single quantum dot up to 30â€‰K. New Journal of Physics, 2007, 9, 315-315.	1.2	217
5	On-demand generation of background-free single photons from a solid-state source. Applied Physics Letters, 2018, 112, .	1.5	204
6	Highly indistinguishable and strongly entangled photons from symmetric GaAs quantum dots. Nature Communications, 2017, 8, 15506.	5.8	187
7	Reversible Shape Evolution of Ge Islands on Si(001). Physical Review Letters, 2001, 87, 256101.	2.9	164
8	Advanced quantum dot configurations. Reports on Progress in Physics, 2009, 72, 046502.	8.1	164
9	Tuning the Exciton Binding Energies in Single Self-Assembled<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>InGaAs</mml:mi><mml:mo>/</mml:mo><mml:mi>GaAs</mml:mi></mml:math>Quantum Dots by Piezoelectric-Induced Biaxial Stress. Physical Review Letters, 2010, 104, 067405.	2.9	160
10	Barrierless Formation and Faceting of SiGe Islands on Si(001). Physical Review Letters, 2002, 89, 196104.	2.9	158
11	Quantum Light Emission of Two Lateral Tunnel-Coupled(In,Ga)As/GaAsQuantum Dots Controlled by a Tunable Static Electric Field. Physical Review Letters, 2006, 96, 137401.	2.9	155
12	Universal Recovery of the Energy-Level Degeneracy of Bright Excitons in InGaAs Quantum Dots without a Structure Symmetry. Physical Review Letters, 2012, 109, 147401.	2.9	154
13	Interplay between Thermodynamics and Kinetics in the Capping ofInAs/GaAs(001)Quantum Dots. Physical Review Letters, 2006, 96, 226106.	2.9	145
14	Strain-Tunable GaAs Quantum Dot: A Nearly Dephasing-Free Source of Entangled Photon Pairs on Demand. Physical Review Letters, 2018, 121, 033902.	2.9	143
15	Hybrid superconductorâ€“semiconductor devices made from self-assembled SiGe nanocrystals on silicon. Nature Nanotechnology, 2010, 5, 458-464.	15.6	142
16	Droplet epitaxy of semiconductor nanostructures for quantum photonic devices. Nature Materials, 2019, 18, 799-810.	13.3	139
17	Hierarchical Self-Assembly ofGaAs/AlGaAsQuantum Dots. Physical Review Letters, 2004, 92, 166104.	2.9	133
18	Selfâ€Assembled Quantum Dot Molecules. Advanced Materials, 2009, 21, 2601-2618.	11.1	121

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19	SiOxâˆ•Si radial superlattices and microtube optical ring resonators. Applied Physics Letters, 2007, 90, 091905.	1.5	114
20	Hybrid semiconductor-atomic interface: slowing down single photons from a quantum dot. Nature Photonics, 2011, 5, 230-233.	15.6	113
21	Ultra-small excitonic fine structure splitting in highly symmetric quantum dots on GaAs (001) substrate. Applied Physics Letters, 2013, 102, .	1.5	113
22	Atomic-Scale Pathway of the Pyramid-to-Dome Transition during Ge Growth on Si(001). Physical Review Letters, 2004, 93, 216102.	2.9	112
23	Nanomembrane Quantumâ€Lightâ€Emitting Diodes Integrated onto Piezoelectric Actuators. Advanced Materials, 2012, 24, 2668-2672.	11.1	111
24	A light-hole exciton in a quantum dot. Nature Physics, 2014, 10, 46-51.	6.5	111
25	Critical Role of the Surface Reconstruction in the Thermodynamic Stability of{105}Ge Pyramids on Si(001). Physical Review Letters, 2002, 88, 256103.	2.9	109
26	Universal shapes of self-organized semiconductor quantum dots: Striking similarities between InAsâˆ•GaAs(001) and Geâˆ•Si(001). Applied Physics Letters, 2004, 85, 5673-5675.	1.5	107
27	Three-Dimensional Composition Profiles of Single Quantum Dots Determined by Scanning-Probe-Microscopy-Based Nanotomography. Nano Letters, 2008, 8, 1404-1409.	4.5	106
28	High yield and ultrafast sources of electrically triggered entangled-photon pairs based on strain-tunable quantum dots. Nature Communications, 2015, 6, 10067.	5.8	106
29	Wavelength-tunable sources of entangled photons interfaced with atomic vapours. Nature Communications, 2016, 7, 10375.	5.8	106
30	Role of Surface-Segregation-Driven Intermixing on the Thermal Transport through Planar<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Si</mml:mi><mml:mo>/</mml:mo><mml:mi>Ge</mml:mi></mml:math>Superlattices. Physical Review Letters, 2013, 111, 115901.	2.9	98
31	Surface evolution of faceted islands. Surface Science, 2002, 515, L493-L498.	0.8	97
32	Semiconductor quantum dots as an ideal source of polarization-entangled photon pairs on-demand: a review. Journal of Optics (United Kingdom), 2018, 20, 073002.	1.0	95
33	Measurements of the magnetic form factor of the proton in the timelike region at large momentum transfer. Physical Review D, 1999, 60, .	1.6	93
34	Kinetic Evolution and Equilibrium Morphology of Strained Islands. Physical Review Letters, 2005, 95, 026103.	2.9	93
35	On-chip Si/SiOx microtube refractometer. Applied Physics Letters, 2008, 93, .	1.5	93
36	Highly Entangled Photons from Hybrid Piezoelectric-Semiconductor Quantum Dot Devices. Nano Letters, 2014, 14, 3439-3444.	4.5	93

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37	Lateral Motion of SiGe Islands Driven by Surface-Mediated Alloying. Physical Review Letters, 2005, 94, 216103.	2.9	91
38	Influence of lateral electric fields on multiexcitonic transitions and fine structure of single quantum dots. Applied Physics Letters, 2007, 91, 051904.	1.5	88
39	Entanglement Swapping with Photons Generated on Demand by a Quantum Dot. Physical Review Letters, 2019, 123, 160501.	2.9	88
40	Monolithic Growth of Ultrathin Ge Nanowires on Si(001). Physical Review Letters, 2012, 109, 085502.	2.9	87
41	Phonon-Assisted Two-Photon Interference from Remote Quantum Emitters. Nano Letters, 2017, 17, 4090-4095.	4.5	87
42	Light emission and wave guiding of quantum dots in a tube. Applied Physics Letters, 2006, 88, 111120.	1.5	84
43	Quantum cryptography with highly entangled photons from semiconductor quantum dots. Science Advances, 2021, 7, .	4.7	82
44	Shape transition during epitaxial growth ofInAsquantum dots onGaAs(001): Theory and experiment. Physical Review B, 2006, 73, .	1.1	80
45	Enhancing the Optical Excitation Efficiency of a Single Self-Assembled Quantum Dot with a Plasmonic Nanoantenna. Nano Letters, 2010, 10, 4555-4558.	4.5	79
46	Self-assembled InAs quantum dots on patterned GaAs(001) substrates: Formation and shape evolution. Applied Physics Letters, 2005, 87, 243112.	1.5	77
47	Site-controlled growth and luminescence of InAs quantum dots using in situ Ga-assisted deoxidation of patterned substrates. Applied Physics Letters, 2008, 93, .	1.5	77
48	Kinetic origin of island intermixing during the growth of Ge on Si(001). Physical Review B, 2005, 72, .	1.1	76
49	Strain-induced anticrossing of bright exciton levels in single self-assembled GaAs/Al<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:math>Ga<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'	1.1	76
50	Shape preservation of Ge/Si(001) islands during Si capping. Applied Physics Letters, 2002, 80, 1438-1440.	1.5	75
51	Local equilibrium and global relaxation of strainedSiGeâ^•Si(001)layers. Physical Review B, 2006, 74, .	1.1	75
52	Limits on dark matter WIMPs using upward-going muons in the MACRO detector. Physical Review D, 1999, 60, .	1.6	74
53	Ordered GaAs quantum dot arrays on GaAs(001): Single photon emission and fine structure splitting. Applied Physics Letters, 2006, 89, 233102.	1.5	71
54	Strain-Tunable Single Photon Sources in WSe₂ Monolayers. Nano Letters, 2019, 19, 6931-6936.	4.5	71

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55	Heavy-Hole States in Germanium Hut Wires. Nano Letters, 2016, 16, 6879-6885.	4.5	69
56	Reconfigurable photonics with on-chip single-photon detectors. Nature Communications, 2021, 12, 1408.	5.8	68
57	SiGe growth on patterned Si(001) substrates: Surface evolution and evidence of modified island coarsening. Applied Physics Letters, 2007, 91, 173115.	1.5	65
58	Strongly coupled semiconductor microcavities: A route to couple artificial atoms over micrometric distances. Physical Review B, 2008, 77, .	1.1	65
59	Fourier synthesis of radiofrequency nanomechanical pulses with different shapes. Nature Nanotechnology, 2015, 10, 512-516.	15.6	65
60	Gate controlled Aharonov-Bohm-type oscillations from single neutral excitons in quantum rings. Physical Review B, 2010, 82, .	1.1	64
61	Reduction of lattice thermal conductivity in one-dimensional quantum-dot superlattices due to phonon filtering. Physical Review B, 2011, 84, .	1.1	64
62	In situ laser microprocessing of single self-assembled quantum dots and optical microcavities. Applied Physics Letters, 2007, 90, 073120.	1.5	63
63	Resonance Fluorescence of GaAs Quantum Dots with Near-Unity Photon Indistinguishability. Nano Letters, 2019, 19, 2404-2410.	4.5	63
64	Energy-Tunable Sources of Entangled Photons: A Viable Concept for Solid-State-Based Quantum Relays. Physical Review Letters, 2015, 114, 150502.	2.9	62
65	Photoluminescence from seeded three-dimensional InAsâˆ•GaAs quantum-dot crystals. Applied Physics Letters, 2006, 88, 043112.	1.5	60
66	Optical properties of rolled-up tubular microcavities from shaped nanomembranes. Applied Physics Letters, 2009, 94, .	1.5	60
67	Strain-tuning of the optical properties of semiconductor nanomaterials by integration onto piezoelectric actuators. Semiconductor Science and Technology, 2018, 33, 013001.	1.0	58
68	Towards deterministically controlled InGaAs/GaAs lateral quantum dot molecules. New Journal of Physics, 2008, 10, 045010.	1.2	56
69	Prepyramid-to-pyramid transition of SiGe islands on Si(001). Physical Review B, 2003, 68, .	1.1	55
70	Critical Shape and Size for Dislocation Nucleation in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Si</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi> on Si(001). Physical Review Letters, 2007, 99, 235505.	2.9	54
71	Optical Properties of a Wrinkled Nanomembrane with Embedded Quantum Well. Nano Letters, 2007, 7, 1676-1679.	4.5	54
72	Electrical characterization of PMNâ€“28%PT(001) crystals used as thin-film substrates. Journal of Applied Physics, 2010, 108, .	1.1	54

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73	An artificial Rb atom in a semiconductor with lifetime-limited linewidth. Physical Review B, 2015, 92, .	1.1	54
74	All-photonic quantum teleportation using on-demand solid-state quantum emitters. Science Advances, 2018, 4, eaau1255.	4.7	53
75	Pyramids and domes in the InAs/GaAs(001) and Ge/Si(001) systems. Journal of Crystal Growth, 2005, 278, 38-45.	0.7	52
76	Dendrochronology of Strain-Relaxed Islands. Physical Review Letters, 2006, 96, 226103.	2.9	52
77	Investigating the lateral motion of SiGe islands by selective chemical etching. Surface Science, 2006, 600, 2608-2613.	0.8	50
78	Quantum dots as potential sources of strongly entangled photons: Perspectives and challenges for applications in quantum networks. Applied Physics Letters, 2021, 118, .	1.5	49
79	Quantum-Dot Single-Photon Sources for Entanglement Enhanced Interferometry. Physical Review Letters, 2017, 118, 257402.	2.9	48
80	High-field magnetoexcitons in unstrainedGaAsâˆ•AlxGa1âˆ’xAsquantum dots. Physical Review B, 2006, 73, .	1.1	46
81	Local tuning of photonic crystal nanocavity modes by laser-assisted oxidation. Applied Physics Letters, 2009, 95, .	1.5	45
82	Self-assembled quantum dots with tunable thickness of the wetting layer: Role of vertical confinement on interlevel spacing. Physical Review B, 2009, 80, .	1.1	44
83	High-Yield Fabrication of Entangled Photon Emitters for Hybrid Quantum Networking Using High-Temperature Droplet Epitaxy. Nano Letters, 2018, 18, 505-512.	4.5	44
84	Strain-induced tuning of the emission wavelength of high quality GaAs/AlGaAs quantum dots in the spectral range of the 87Rb D2 lines. Applied Physics Letters, 2011, 99, 161118.	1.5	43
85	Shape, strain, and ordering of lateral InAs quantum dot molecules. Physical Review B, 2005, 72, .	1.1	42
86	Structural and optical properties of In(Ga)Asâˆ•GaAs quantum dots treated by partial capping and annealing. Journal of Applied Physics, 2006, 100, 064313.	1.1	42
87	Optical resonance tuning and polarization of thin-walled tubular microcavities. Optics Letters, 2009, 34, 2345.	1.7	42
88	Multi-scale ordering of self-assembled InAs/GaAs(001) quantum dots. Nanoscale Research Letters, 2006, 1, 1-10.	3.1	41
89	Epitaxial quantum dots in stretchable optical microcavities. Optics Express, 2009, 17, 22452.	1.7	41
90	Dependence of the Redshifted and Blueshifted Photoluminescence Spectra of Single<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>In</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:msub><mml:mi>Ga</mml:mi><mml:mrow Dots on the Applied Uniaxial Stress. Physical Review Letters, 2011, 107, 217402.	2.9	40

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91	Eleven Nanometer Alignment Precision of a Plasmonic Nanoantenna with a Self-Assembled GaAs Quantum Dot. Nano Letters, 2014, 14, 197-201.	4.5	40
92	Highly indistinguishable single photons from incoherently excited quantum dots. Physical Review B, 2019, 100, .	1.1	39
93	Nuclear spin quantum register in an optically active semiconductor quantum dot. Nature Nanotechnology, 2020, 15, 999-1004.	15.6	39
94	Experimental investigation and modeling of the fine structure splitting of neutral excitons in strain-free<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mtext>GaAs</mml:mtext><mml:mo>/</mml:mo><mml:msub><mml:mrow><mml:mtext>Al</mml:mtext></mml:m Physical Review B, 2010, 81, .	1.1	38
95	Island formation and faceting in the SiGe/Si() system. Surface Science, 2003, 532-535, 769-773.	0.8	36
96	Global faceting behavior of strained Ge islands on Si. Nanotechnology, 2009, 20, 085708.	1.3	36
97	Controlling quantum dot emission by integration of semiconductor nanomembranes onto piezoelectric actuators. Physica Status Solidi (B): Basic Research, 2012, 249, 687-696.	0.7	36
98	Experimental methods of post-growth tuning of the excitonic fine structure splitting in semiconductor quantum dots. Nanoscale Research Letters, 2012, 7, 336.	3.1	35
99	Uniaxial stress flips the natural quantization axis of a quantum dot for integrated quantum photonics. Nature Communications, 2018, 9, 3058.	5.8	35
100	Positioning of Strained Islands by Interaction with Surface Nanogrooves. Physical Review Letters, 2008, 101, 096103.	2.9	34
101	Crux of Using the Cascaded Emission of a Three-Level Quantum Ladder System to Generate Indistinguishable Photons. Physical Review Letters, 2020, 125, 233605.	2.9	34
102	Single Photons on Demand from Novel Site-Controlled GaAsN/GaAsN:H Quantum Dots. Nano Letters, 2014, 14, 1275-1280.	4.5	32
103	GaAs quantum dots grown by droplet etching epitaxy as quantum light sources. Applied Physics Letters, 2021, 119, .	1.5	32
104	Bidirectional wavelength tuning of individual semiconductor quantum dots in a flexible rolled-up microtube. Physical Review B, 2008, 78, .	1.1	31
105	Alloying and Strain Relaxation in SiGe Islands Grown on Pit-Patterned Si(001) Substrates Probed by Nanotomography. Nanoscale Research Letters, 2009, 4, 1073-7.	3.1	30
106	Independent control of exciton and biexciton energies in single quantum dots via electroelastic fields. Physical Review B, 2013, 88, .	1.1	30
107	On-Chip Single-Plasmon Nanocircuit Driven by a Self-Assembled Quantum Dot. Nano Letters, 2017, 17, 4291-4296.	4.5	30
108	Quantum teleportation with imperfect quantum dots. Npj Quantum Information, 2021, 7, .	2.8	30

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109	Collective Shape Oscillations of SiGe Islands on Pit-Patterned Si(001) Substrates: A Coherent-Growth Strategy Enabled by Self-Regulated Intermixing. Physical Review Letters, 2010, 105, 166102.	2.9	29
110	Tuning of the valence band mixing of excitons confined in GaAs/AlGaAs quantum dots via piezoelectric-induced anisotropic strain. Physical Review B, 2013, 87, .	1.1	28
111	Single Photons On-Demand from Light-Hole Excitons in Strain-Engineered Quantum Dots. Nano Letters, 2015, 15, 422-427.	4.5	28
112	Mode tuning of photonic crystal nanocavities by photoinduced non-thermal oxidation. Applied Physics Letters, 2012, 100, 033116.	1.5	27
113	A Nanomembrane-Based Wavelength-Tunable High-Speed Single-Photon-Emitting Diode. Nano Letters, 2013, 13, 5808-5813.	4.5	27
114	Electrically-Pumped Wavelength-Tunable GaAs Quantum Dots Interfaced with Rubidium Atoms. ACS Photonics, 2017, 4, 868-872.	3.2	27
115	Multi-harmonic quantum dot optomechanics in fused LiNbO₃â€“(Al)GaAs hybrids. Journal Physics D: Applied Physics, 2017, 50, 43LT01.	1.3	27
116	Evolution of theGeâˆ•Si(001)wetting layer during Si overgrowth and crossover between thermodynamic and kinetic behavior. Physical Review B, 2004, 69, .	1.1	26
117	Nonparabolic band effects inGaAsâˆ•AlxGa1âˆ’xAsquantum dots and ultrathin quantum wells. Physical Review B, 2005, 72, .	1.1	26
118	Single-particle-picture breakdown in laterally weakly confining GaAs quantum dots. Physical Review B, 2019, 100, .	1.1	26
119	Shape, facet evolution and photoluminescence of Ge islands capped with Si at different temperatures. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 23, 421-427.	1.3	25
120	Alloying of self-organized semiconductor 3D islands. Journal of Experimental Nanoscience, 2006, 1, 279-305.	1.3	25
121	Strain in a single ultrathin silicon layer on top of SiGe islands: Raman spectroscopy and simulations. Physical Review B, 2009, 79, .	1.1	25
122	Heterogeneous confinement in laterally coupled InGaAs/GaAs quantum dot molecules under lateral electric fields. Physical Review B, 2010, 81, .	1.1	25
123	Morphological and Compositional Evolution of theGe/Si(001)Surface During Exposure to a Si Flux. Physical Review Letters, 2003, 90, 216104.	2.9	24
124	From rolled-up Si microtubes to SiOx/Si optical ring resonators. Microelectronic Engineering, 2007, 84, 1427-1430.	1.1	24
125	Composition and strain in SiGe/Si(001) â€œnanoringsâ€•revealed by combined x-ray and selective wet chemical etching methods. Applied Physics Letters, 2009, 94, .	1.5	24
126	Compositional evolution of SiGe islands on patterned Si (001) substrates. Applied Physics Letters, 2010, 97, 203103.	1.5	24

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127	Volume dependence of excitonic fine structure splitting in geometrically similar quantum dots. Physical Review B, 2014, 90, .	1.1	24
128	SiGe wet chemical etchants with high compositional selectivity and low strain sensitivity. Semiconductor Science and Technology, 2008, 23, 085021.	1.0	23
129	Reversible Control of Inâ€Plane Elastic Stress Tensor in Nanomembranes. Advanced Optical Materials, 2016, 4, 682-687.	3.6	23
130	Inversion of the exciton built-in dipole moment in In(Ga)As quantum dots via nonlinear piezoelectric effect. Physical Review B, 2017, 96, .	1.1	23
131	Resolving the temporal evolution of line broadening in single quantum emitters. Optics Express, 2019, 27, 35290.	1.7	23
132	Novel nanostructure architectures. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 25, 280-287.	1.3	22
133	Strain-mediated lateral SiGe island motion in single and stacked layers. Physical Review B, 2005, 72, .	1.1	22
134	Three-dimensional isocompositional profiles of buried SiGeâˆ•Si(001) islands. Applied Physics Letters, 2007, 91, .	1.5	22
135	Strain engineering in Si via closely stacked, site-controlled SiGe islands. Applied Physics Letters, 2010, 96, .	1.5	22
136	Positioning plasmonic nanostructures on single quantum emitters. Physica Status Solidi (B): Basic Research, 2012, 249, 678-686.	0.7	22
137	Thermal transport through short-period SiGe nanodot superlattices. Journal of Applied Physics, 2014, 115, 044312.	1.1	22
138	Strain-induced active tuning of the coherent tunneling in quantum dot molecules. Physical Review B, 2014, 89, .	1.1	22
139	Multiharmonic Frequency-Chirped Transducers for Surface-Acoustic-Wave Optomechanics. Physical Review Applied, 2018, 9, .	1.5	22
140	Thermal transport through Ge-rich Ge/Si superlattices grown on Ge(0â€‰0â€‰1). Journal Physics D: Applied Physics, 2018, 51, 014001.	1.3	22
141	Origin of Antibunching in Resonance Fluorescence. Physical Review Letters, 2020, 125, 170402.	2.9	22
142	Strain-Controlled Quantum Dot Fine Structure for Entangled Photon Generation atâ€‰1550 nm. Nano Letters, 2021, 21, 10501-10506.	4.5	22
143	High statistics measurement of the underground muon pair separation at Gran Sasso. Physical Review D, 1999, 60, .	1.6	21
144	Self-assembled quantum dots for single-dot optical investigations. Superlattices and Microstructures, 2004, 36, 181-191.	1.4	21

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145	Strained SiGe islands on Si(001): Evolution, motion, dissolution, and plastic relaxation. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 3506-3511.	0.8	21
146	Straining Nanomembranes via Highly Mismatched Heteroepitaxial Growth: InAs Islands on Compliant Si Substrates. ACS Nano, 2012, 6, 10287-10295.	7.3	20
147	Self-organized evolution of Ge/Si(001) into intersecting bundles of horizontal nanowires during annealing. Applied Physics Letters, 2013, 103, 083109.	1.5	20
148	Effect of second-order piezoelectricity on the excitonic structure of stress-tuned In(Ga)As/GaAs quantum dots. Physical Review B, 2018, 97, .	1.1	20
149	Strain-Tunable Single-Photon Source Based on a Quantum Dotâ€“Micropillar System. ACS Photonics, 2019, 6, 2025-2031.	3.2	20
150	Quantum Dot Optomechanics in Suspended Nanophononic Strings. Advanced Quantum Technologies, 2020, 3, 1900102.	1.8	20
151	Wavelength Tunable Triggered Single-Photon Source from a Single CdTe Quantum Dot on Silicon Substrate. Nano Letters, 2009, 9, 304-307.	4.5	19
152	Tuning single GaAs quantum dots in resonance with a rubidium vapor. Applied Physics Letters, 2010, 97, .	1.5	19
153	Surface passivation and oxide encapsulation to improve optical properties of a single GaAs quantum dot close to the surface. Applied Surface Science, 2020, 532, 147360.	3.1	19
154	SUPER Scheme in Action: Experimental Demonstration of Red-Detuned Excitation of a Quantum Emitter. Nano Letters, 2022, 22, 6567-6572.	4.5	19
155	Unveiling the morphology of buried In(Ga)As nanostructures by selective wet chemical etching: From quantum dots to quantum rings. Applied Physics Letters, 2007, 90, 173104.	1.5	18
156	Atomic clouds as spectrally selective and tunable delay lines for single photons from quantum dots. Physical Review B, 2015, 92, .	1.1	18
157	A hybrid (Al)GaAs-LiNbO3 surface acoustic wave resonator for cavity quantum dot optomechanics. Applied Physics Letters, 2020, 117, .	1.5	18
158	Anomalous anticrossing of neutral exciton states in GaAs/AlGaAs quantum dots. Physical Review B, 2014, 89, .	1.1	17
159	On-demand semiconductor source of 780-nm single photons with controlled temporal wave packets. Physical Review B, 2018, 97, .	1.1	17
160	Guided self-assembly of lateral InAs/GaAs quantum-dot molecules for single molecule spectroscopy. Nanoscale Research Letters, 2006, 1, 74-78.	3.1	16
161	Temperature dependent optical properties of single, hierarchically self-assembled GaAs/AlGaAs quantum dots. Nanoscale Research Letters, 2006, 1, 172-176.	3.1	16
162	Shape oscillations: A walk through the phase diagram of strained islands. Physical Review B, 2007, 75, .	1.1	16

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163	Direct Laser Writing of Nanoscale Lightâ€Emitting Diodes. Advanced Materials, 2010, 22, 3176-3180.	11.1	16
164	Epitaxial growth of lateral quantum dot molecules. Physica Status Solidi (B): Basic Research, 2012, 249, 702-709.	0.7	16
165	Vectorial nonlinear coherent response of a strongly confined excitonâ€“biexciton system. New Journal of Physics, 2013, 15, 055006.	1.2	16
166	Purcell-enhanced single-photon emission from a strain-tunable quantum dot in a cavity-waveguide device. Applied Physics Letters, 2020, 117, .	1.5	16
167	Selective area wavelength tuning of InAs/GaAs quantum dots obtained by TiO2 and SiO2 layer patterning. Applied Physics Letters, 2009, 94, .	1.5	15
168	Shaping site-controlled uniform arrays of SiGe/Si(001) islands by in situ annealing. Applied Physics Letters, 2009, 95, .	1.5	15
169	Quantum entanglement in lateral GaAs/AlGaAs quantum dot molecules. Journal of Physics: Conference Series, 2010, 245, 012027.	0.3	15
170	Influence of the charge carrier tunneling processes on the recombination dynamics in single lateral quantum dot molecules. Physical Review B, 2010, 82, .	1.1	15
171	Engineering self-assembled SiGe islands for robust electron confinement in Si. Physical Review B, 2010, 82, .	1.1	15
172	Strain-induced<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>g</mml:mi></mml:math>-factor tuning in single InGaAs/GaAs quantum dots. Physical Review B, 2016, 94, .	1.1	15
173	Coupling a single solid-state quantum emitter to an array of resonant plasmonic antennas. Scientific Reports, 2018, 8, 3415.	1.6	15
174	Electric field induced tuning of electronic correlation in weakly confining quantum dots. Physical Review B, 2021, 104, .	1.1	15
175	Quantum dot technology for quantum repeaters: from entangled photon generation toward the integration with quantum memories. Materials for Quantum Technology, 2021, 1, 043001.	1.2	15
176	Reading the footprints of strained islands. Microelectronics Journal, 2006, 37, 1471-1476.	1.1	14
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