

Armando Rastelli

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253
papers

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83
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284
ext. papers

10,138
ext. citations

5.7
avg, IF

5.95
L-index

#	Paper	IF	Citations
253	Precise control of thermal conductivity at the nanoscale through individual phonon-scattering barriers. <i>Nature Materials</i> , 2010 , 9, 491-5	27	281
252	Stretchable graphene: a close look at fundamental parameters through biaxial straining. <i>Nano Letters</i> , 2010 , 10, 3453-8	11.5	275
251	Triggered polarization-entangled photon pairs from a single quantum dot up to 30 K. <i>New Journal of Physics</i> , 2007 , 9, 315-315	2.9	191
250	A solid-state source of strongly entangled photon pairs with high brightness and indistinguishability. <i>Nature Nanotechnology</i> , 2019 , 14, 586-593	28.7	169
249	Reversible shape evolution of Ge islands on Si(001). <i>Physical Review Letters</i> , 2001 , 87, 256101	7.4	151
248	Tuning the exciton binding energies in single self-assembled InGaAs/GaAs quantum dots by piezoelectric-induced biaxial stress. <i>Physical Review Letters</i> , 2010 , 104, 067405	7.4	150
247	Advanced quantum dot configurations. <i>Reports on Progress in Physics</i> , 2009 , 72, 046502	14.4	149
246	Barrierless formation and faceting of SiGe islands on Si(001). <i>Physical Review Letters</i> , 2002 , 89, 196104	7.4	148
245	Highly indistinguishable and strongly entangled photons from symmetric GaAs quantum dots. <i>Nature Communications</i> , 2017 , 8, 15506	17.4	138
244	Quantum light emission of two lateral tunnel-coupled (In,Ga)As/GaAs quantum dots controlled by a tunable static electric field. <i>Physical Review Letters</i> , 2006 , 96, 137401	7.4	138
243	Universal recovery of the energy-level degeneracy of bright excitons in InGaAs quantum dots without a structure symmetry. <i>Physical Review Letters</i> , 2012 , 109, 147401	7.4	136
242	Interplay between thermodynamics and kinetics in the capping of InAs/GaAs(001) quantum dots. <i>Physical Review Letters</i> , 2006 , 96, 226106	7.4	133
241	On-demand generation of background-free single photons from a solid-state source. <i>Applied Physics Letters</i> , 2018 , 112, 093106	3.4	132
240	Hybrid superconductor-semiconductor devices made from self-assembled SiGe nanocrystals on silicon. <i>Nature Nanotechnology</i> , 2010 , 5, 458-64	28.7	129
239	Hierarchical self-assembly of GaAs/AlGaAs quantum dots. <i>Physical Review Letters</i> , 2004 , 92, 166104	7.4	117
238	Self-Assembled Quantum Dot Molecules. <i>Advanced Materials</i> , 2009 , 21, 2601-2618	24	104
237	Atomic-scale pathway of the pyramid-to-dome transition during ge growth on Si(001). <i>Physical Review Letters</i> , 2004 , 93, 216102	7.4	104

236	Three-dimensional composition profiles of single quantum dots determined by scanning-probe-microscopy-based nanotomography. <i>Nano Letters</i> , 2008 , 8, 1404-9	11.5	103
235	SiOxBi radial superlattices and microtube optical ring resonators. <i>Applied Physics Letters</i> , 2007 , 90, 091904	3.4	103
234	Nanomembrane quantum-light-emitting diodes integrated onto piezoelectric actuators. <i>Advanced Materials</i> , 2012 , 24, 2668-72	24	102
233	Critical role of the surface reconstruction in the thermodynamic stability of (105) Ge pyramids on Si(001). <i>Physical Review Letters</i> , 2002 , 88, 256103	7.4	101
232	Universal shapes of self-organized semiconductor quantum dots: Striking similarities between InAs/GaAs(001) and Ge/Si(001). <i>Applied Physics Letters</i> , 2004 , 85, 5673-5675	3.4	99
231	Hybrid semiconductor-atomic interface: slowing down single photons from a quantum dot. <i>Nature Photonics</i> , 2011 , 5, 230-233	33.9	97
230	A light-hole exciton in a quantum dot. <i>Nature Physics</i> , 2014 , 10, 46-51	16.2	94
229	Ultra-small excitonic fine structure splitting in highly symmetric quantum dots on GaAs (001) substrate. <i>Applied Physics Letters</i> , 2013 , 102, 152105	3.4	92
228	Kinetic evolution and equilibrium morphology of strained islands. <i>Physical Review Letters</i> , 2005 , 95, 026103	17.3	91
227	Surface evolution of faceted islands. <i>Surface Science</i> , 2002 , 515, L493-L498	1.8	90
226	Strain-Tunable GaAs Quantum Dot: A Nearly Dephasing-Free Source of Entangled Photon Pairs on Demand. <i>Physical Review Letters</i> , 2018 , 121, 033902	7.4	89
225	Lateral motion of SiGe islands driven by surface-mediated alloying. <i>Physical Review Letters</i> , 2005 , 94, 216103	7.4	89
224	Role of surface-segregation-driven intermixing on the thermal transport through planar Si/Ge superlattices. <i>Physical Review Letters</i> , 2013 , 111, 115901	7.4	88
223	High yield and ultrafast sources of electrically triggered entangled-photon pairs based on strain-tunable quantum dots. <i>Nature Communications</i> , 2015 , 6, 10067	17.4	88
222	Measurements of the magnetic form factor of the proton in the timelike region at large momentum transfer. <i>Physical Review D</i> , 1999 , 60,	4.9	87
221	Wavelength-tunable sources of entangled photons interfaced with atomic vapours. <i>Nature Communications</i> , 2016 , 7, 10375	17.4	86
220	Influence of lateral electric fields on multiexcitonic transitions and fine structure of single quantum dots. <i>Applied Physics Letters</i> , 2007 , 91, 051904	3.4	85
219	Droplet epitaxy of semiconductor nanostructures for quantum photonic devices. <i>Nature Materials</i> , 2019 , 18, 799-810	27	82

218	On-chip Si/SiO _x microtube refractometer. <i>Applied Physics Letters</i> , 2008 , 93, 094106	3.4	81
217	Enhancing the optical excitation efficiency of a single self-assembled quantum dot with a plasmonic nanoantenna. <i>Nano Letters</i> , 2010 , 10, 4555-8	11.5	74
216	Kinetic origin of island intermixing during the growth of Ge on Si(001). <i>Physical Review B</i> , 2005 , 72,	3.3	74
215	Local equilibrium and global relaxation of strained SiGeBi(001) layers. <i>Physical Review B</i> , 2006 , 74,	3.3	74
214	Highly entangled photons from hybrid piezoelectric-semiconductor quantum dot devices. <i>Nano Letters</i> , 2014 , 14, 3439-44	11.5	73
213	Monolithic growth of ultrathin Ge nanowires on Si(001). <i>Physical Review Letters</i> , 2012 , 109, 085502	7.4	73
212	Strain-induced anticrossing of bright exciton levels in single self-assembled GaAs/Al _x Ga _{1-x} As and In _x Ga _{1-x} As/GaAs quantum dots. <i>Physical Review B</i> , 2011 , 83,	3.3	73
211	Site-controlled growth and luminescence of InAs quantum dots using in situ Ga-assisted deoxidation of patterned substrates. <i>Applied Physics Letters</i> , 2008 , 93, 101908	3.4	72
210	Light emission and wave guiding of quantum dots in a tube. <i>Applied Physics Letters</i> , 2006 , 88, 111120	3.4	72
209	Self-assembled InAs quantum dots on patterned GaAs(001) substrates: Formation and shape evolution. <i>Applied Physics Letters</i> , 2005 , 87, 243112	3.4	72
208	Shape preservation of Ge/Si(001) islands during Si capping. <i>Applied Physics Letters</i> , 2002 , 80, 1438-1440	3.4	71
207	Limits on dark matter WIMPs using upward-going muons in the MACRO detector. <i>Physical Review D</i> , 1999 , 60,	4.9	70
206	Shape transition during epitaxial growth of InAs quantum dots on GaAs(001): Theory and experiment. <i>Physical Review B</i> , 2006 , 73,	3.3	69
205	Ordered GaAs quantum dot arrays on GaAs(001): Single photon emission and fine structure splitting. <i>Applied Physics Letters</i> , 2006 , 89, 233102	3.4	62
204	Gate controlled Aharonov-Bohm-type oscillations from single neutral excitons in quantum rings. <i>Physical Review B</i> , 2010 , 82,	3.3	61
203	SiGe growth on patterned Si(001) substrates: Surface evolution and evidence of modified island coarsening. <i>Applied Physics Letters</i> , 2007 , 91, 173115	3.4	60
202	In situ laser microprocessing of single self-assembled quantum dots and optical microcavities. <i>Applied Physics Letters</i> , 2007 , 90, 073120	3.4	58
201	Phonon-Assisted Two-Photon Interference from Remote Quantum Emitters. <i>Nano Letters</i> , 2017 , 17, 4090-4095	11.5	57

200	Strongly coupled semiconductor microcavities: A route to couple artificial atoms over micrometric distances. <i>Physical Review B</i> , 2008 , 77,	3.3	57
199	Reduction of lattice thermal conductivity in one-dimensional quantum-dot superlattices due to phonon filtering. <i>Physical Review B</i> , 2011 , 84,	3.3	56
198	Photoluminescence from seeded three-dimensional InAs/GaAs quantum-dot crystals. <i>Applied Physics Letters</i> , 2006 , 88, 043112	3.4	55
197	Prepyramid-to-pyramid transition of SiGe islands on Si(001). <i>Physical Review B</i> , 2003 , 68,	3.3	55
196	Towards deterministically controlled InGaAs/GaAs lateral quantum dot molecules. <i>New Journal of Physics</i> , 2008 , 10, 045010	2.9	54
195	Energy-tunable sources of entangled photons: a viable concept for solid-state-based quantum relays. <i>Physical Review Letters</i> , 2015 , 114, 150502	7.4	53
194	Semiconductor quantum dots as an ideal source of polarization-entangled photon pairs on-demand: a review. <i>Journal of Optics (United Kingdom)</i> , 2018 , 20, 073002	1.7	53
193	Optical properties of rolled-up tubular microcavities from shaped nanomembranes. <i>Applied Physics Letters</i> , 2009 , 94, 141901	3.4	53
192	Fourier synthesis of radiofrequency nanomechanical pulses with different shapes. <i>Nature Nanotechnology</i> , 2015 , 10, 512-6	28.7	52
191	Electrical characterization of PMN ₈₂ PT(001) crystals used as thin-film substrates. <i>Journal of Applied Physics</i> , 2010 , 108, 094101	2.5	52
190	Dendrochronology of strain-relaxed islands. <i>Physical Review Letters</i> , 2006 , 96, 226103	7.4	51
189	Optical properties of a wrinkled nanomembrane with embedded quantum well. <i>Nano Letters</i> , 2007 , 7, 1676-9	11.5	49
188	Investigating the lateral motion of SiGe islands by selective chemical etching. <i>Surface Science</i> , 2006 , 600, 2608-2613	1.8	49
187	Pyramids and domes in the InAs/GaAs(0 0 1) and Ge/Si(0 0 1) systems. <i>Journal of Crystal Growth</i> , 2005 , 278, 38-45	1.6	49
186	Entanglement Swapping with Photons Generated on Demand by a Quantum Dot. <i>Physical Review Letters</i> , 2019 , 123, 160501	7.4	48
185	Critical shape and size for dislocation nucleation in Si _{1-x} Ge _x islands on Si(001). <i>Physical Review Letters</i> , 2007 , 99, 235505	7.4	48
184	High-field magnetoexcitons in unstrained GaAs _{1-x} Ga _x As quantum dots. <i>Physical Review B</i> , 2006 , 73,	3.3	45
183	Heavy-Hole States in Germanium Hut Wires. <i>Nano Letters</i> , 2016 , 16, 6879-6885	11.5	44

182	An artificial Rb atom in a semiconductor with lifetime-limited linewidth. <i>Physical Review B</i> , 2015 , 92,	3-3	43
181	Optical resonance tuning and polarization of thin-walled tubular microcavities. <i>Optics Letters</i> , 2009 , 34, 2345-7	3	41
180	Strain-induced tuning of the emission wavelength of high quality GaAs/AlGaAs quantum dots in the spectral range of the 87Rb D2 lines. <i>Applied Physics Letters</i> , 2011 , 99, 161118	3-4	40
179	Self-assembled quantum dots with tunable thickness of the wetting layer: Role of vertical confinement on interlevel spacing. <i>Physical Review B</i> , 2009 , 80,	3-3	40
178	Quantum-Dot Single-Photon Sources for Entanglement Enhanced Interferometry. <i>Physical Review Letters</i> , 2017 , 118, 257402	7-4	39
177	Strain-tuning of the optical properties of semiconductor nanomaterials by integration onto piezoelectric actuators. <i>Semiconductor Science and Technology</i> , 2018 , 33, 013001	1.8	38
176	Local tuning of photonic crystal nanocavity modes by laser-assisted oxidation. <i>Applied Physics Letters</i> , 2009 , 95, 191109	3-4	38
175	Epitaxial quantum dots in stretchable optical microcavities. <i>Optics Express</i> , 2009 , 17, 22452-61	3-3	37
174	High-Yield Fabrication of Entangled Photon Emitters for Hybrid Quantum Networking Using High-Temperature Droplet Epitaxy. <i>Nano Letters</i> , 2018 , 18, 505-512	11.5	37
173	All-photonic quantum teleportation using on-demand solid-state quantum emitters. <i>Science Advances</i> , 2018 , 4, eaau1255	14.3	37
172	Resonance Fluorescence of GaAs Quantum Dots with Near-Unity Photon Indistinguishability. <i>Nano Letters</i> , 2019 , 19, 2404-2410	11.5	36
171	Dependence of the redshifted and blueshifted photoluminescence spectra of single In(x)Ga(1-x)As/GaAs quantum dots on the applied uniaxial stress. <i>Physical Review Letters</i> , 2011 , 107, 217402	7-4	36
170	Multi-scale ordering of self-assembled InAs/GaAs(001) quantum dots. <i>Nanoscale Research Letters</i> , 2006 , 1, 1-10	5	36
169	Shape, strain, and ordering of lateral InAs quantum dot molecules. <i>Physical Review B</i> , 2005 , 72,	3-3	36
168	Eleven nanometer alignment precision of a plasmonic nanoantenna with a self-assembled GaAs quantum dot. <i>Nano Letters</i> , 2014 , 14, 197-201	11.5	34
167	Experimental investigation and modeling of the fine structure splitting of neutral excitons in strain-free GaAs/AlxGa1-xAs quantum dots. <i>Physical Review B</i> , 2010 , 81,	3-3	34
166	Island formation and faceting in the SiGe/Si() system. <i>Surface Science</i> , 2003 , 532-535, 769-773	1.8	34
165	Strain-Tunable Single Photon Sources in WSe Monolayers. <i>Nano Letters</i> , 2019 , 19, 6931-6936	11.5	33

164	Controlling quantum dot emission by integration of semiconductor nanomembranes onto piezoelectric actuators. <i>Physica Status Solidi (B): Basic Research</i> , 2012 , 249, 687-696	1.3	33
163	Positioning of strained islands by interaction with surface nanogrooves. <i>Physical Review Letters</i> , 2008 , 101, 096103	7.4	33
162	Global faceting behavior of strained Ge islands on Si. <i>Nanotechnology</i> , 2009 , 20, 085708	3.4	31
161	Experimental methods of post-growth-tuning of the excitonic fine structure splitting in semiconductor quantum dots. <i>Nanoscale Research Letters</i> , 2012 , 7, 336	5	30
160	Structural and optical properties of In(Ga)As/GaAs quantum dots treated by partial capping and annealing. <i>Journal of Applied Physics</i> , 2006 , 100, 064313	2.5	30
159	Collective shape oscillations of SiGe islands on pit-patterned Si(001) substrates: a coherent-growth strategy enabled by self-regulated intermixing. <i>Physical Review Letters</i> , 2010 , 105, 166102	7.4	29
158	Alloying and Strain Relaxation in SiGe Islands Grown on Pit-Patterned Si(001) Substrates Probed by Nanotomography. <i>Nanoscale Research Letters</i> , 2009 , 4, 1073-7	5	29
157	Single photons on demand from novel site-controlled GaAsN/GaAsN:H quantum dots. <i>Nano Letters</i> , 2014 , 14, 1275-80	11.5	28
156	Uniaxial stress flips the natural quantization axis of a quantum dot for integrated quantum photonics. <i>Nature Communications</i> , 2018 , 9, 3058	17.4	27
155	Bidirectional wavelength tuning of individual semiconductor quantum dots in a flexible rolled-up microtube. <i>Physical Review B</i> , 2008 , 78,	3.3	27
154	Independent control of exciton and biexciton energies in single quantum dots via electroelastic fields. <i>Physical Review B</i> , 2013 , 88,	3.3	26
153	Tuning of the valence band mixing of excitons confined in GaAs/AlGaAs quantum dots via piezoelectric-induced anisotropic strain. <i>Physical Review B</i> , 2013 , 87,	3.3	25
152	Heterogeneous confinement in laterally coupled InGaAs/GaAs quantum dot molecules under lateral electric fields. <i>Physical Review B</i> , 2010 , 81,	3.3	25
151	Mode tuning of photonic crystal nanocavities by photoinduced non-thermal oxidation. <i>Applied Physics Letters</i> , 2012 , 100, 033116	3.4	25
150	A nanomembrane-based wavelength-tunable high-speed single-photon-emitting diode. <i>Nano Letters</i> , 2013 , 13, 5808-13	11.5	24
149	Alloying of self-organized semiconductor 3D islands. <i>Journal of Experimental Nanoscience</i> , 2006 , 1, 279-305		24
148	Shape, facet evolution and photoluminescence of Ge islands capped with Si at different temperatures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004 , 23, 421-427	3	24
147	Electrically-Pumped Wavelength-Tunable GaAs Quantum Dots Interfaced with Rubidium Atoms. <i>ACS Photonics</i> , 2017 , 4, 868-872	6.3	23

146	Single photons on-demand from light-hole excitons in strain-engineered quantum dots. <i>Nano Letters</i> , 2015 , 15, 422-7	11.5	23
145	Compositional evolution of SiGe islands on patterned Si (001) substrates. <i>Applied Physics Letters</i> , 2010 , 97, 203103	3.4	23
144	Composition and strain in SiGe/Si(001) Nanorings revealed by combined x-ray and selective wet chemical etching methods. <i>Applied Physics Letters</i> , 2009 , 94, 253114	3.4	23
143	SiGe wet chemical etchants with high compositional selectivity and low strain sensitivity. <i>Semiconductor Science and Technology</i> , 2008 , 23, 085021	1.8	23
142	Morphological and compositional evolution of the ge/si(001) surface during exposure to a si flux. <i>Physical Review Letters</i> , 2003 , 90, 216104	7.4	23
141	Nonparabolic band effects in GaAs _{1-x} Ga _x As quantum dots and ultrathin quantum wells. <i>Physical Review B</i> , 2005 , 72,	3.3	23
140	On-Chip Single-Plasmon Nanocircuit Driven by a Self-Assembled Quantum Dot. <i>Nano Letters</i> , 2017 , 17, 4291-4296	11.5	22
139	Strain in a single ultrathin silicon layer on top of SiGe islands: Raman spectroscopy and simulations. <i>Physical Review B</i> , 2009 , 79,	3.3	22
138	Evolution of the GeBi(001) wetting layer during Si overgrowth and crossover between thermodynamic and kinetic behavior. <i>Physical Review B</i> , 2004 , 69,	3.3	22
137	Strain-mediated lateral SiGe island motion in single and stacked layers. <i>Physical Review B</i> , 2005 , 72,	3.3	22
136	Three-dimensional isocompositional profiles of buried SiGeBi(001) islands. <i>Applied Physics Letters</i> , 2007 , 91, 013112	3.4	21
135	Strained SiGe islands on Si(001): Evolution, motion, dissolution, and plastic relaxation. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006 , 203, 3506-3511	1.6	21
134	Reversible Control of In-Plane Elastic Stress Tensor in Nanomembranes. <i>Advanced Optical Materials</i> , 2016 , 4, 682-687	8.1	20
133	Thermal transport through short-period SiGe nanodot superlattices. <i>Journal of Applied Physics</i> , 2014 , 115, 044312	2.5	20
132	Strain-induced active tuning of the coherent tunneling in quantum dot molecules. <i>Physical Review B</i> , 2014 , 89,	3.3	20
131	Volume dependence of excitonic fine structure splitting in geometrically similar quantum dots. <i>Physical Review B</i> , 2014 , 90,	3.3	20
130	Strain engineering in Si via closely stacked, site-controlled SiGe islands. <i>Applied Physics Letters</i> , 2010 , 96, 193101	3.4	20
129	From rolled-up Si microtubes to SiO _x /Si optical ring resonators. <i>Microelectronic Engineering</i> , 2007 , 84, 1427-1430	2.5	20

128	Novel nanostructure architectures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004 , 25, 280-287	3	20
127	High statistics measurement of the underground muon pair separation at Gran Sasso. <i>Physical Review D</i> , 1999 , 60,	4.9	20
126	Multi-harmonic quantum dot optomechanics in fused LiNbO ₃ /AlGaAs hybrids. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 43LT01	3	19
125	Highly indistinguishable single photons from incoherently excited quantum dots. <i>Physical Review B</i> , 2019 , 100,	3.3	19
124	Positioning plasmonic nanostructures on single quantum emitters. <i>Physica Status Solidi (B): Basic Research</i> , 2012 , 249, 678-686	1.3	19
123	Self-assembled quantum dots for single-dot optical investigations. <i>Superlattices and Microstructures</i> , 2004 , 36, 181-191	2.8	19
122	Thermal transport through Ge-rich Ge/Si superlattices grown on Ge(0 0 1). <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 014001	3	19
121	Straining nanomembranes via highly mismatched heteroepitaxial growth: InAs islands on compliant Si substrates. <i>ACS Nano</i> , 2012 , 6, 10287-95	16.7	18
120	Reconfigurable photonics with on-chip single-photon detectors. <i>Nature Communications</i> , 2021 , 12, 1408	17.4	18
119	Anomalous anticrossing of neutral exciton states in GaAs/AlGaAs quantum dots. <i>Physical Review B</i> , 2014 , 89,	3.3	17
118	Wavelength tunable triggered single-photon source from a single CdTe quantum dot on silicon substrate. <i>Nano Letters</i> , 2009 , 9, 304-7	11.5	17
117	Unveiling the morphology of buried In(Ga)As nanostructures by selective wet chemical etching: From quantum dots to quantum rings. <i>Applied Physics Letters</i> , 2007 , 90, 173104	3.4	17
116	Inversion of the exciton built-in dipole moment in In(Ga)As quantum dots via nonlinear piezoelectric effect. <i>Physical Review B</i> , 2017 , 96,	3.3	16
115	Atomic clouds as spectrally selective and tunable delay lines for single photons from quantum dots. <i>Physical Review B</i> , 2015 , 92,	3.3	16
114	Shape oscillations: A walk through the phase diagram of strained islands. <i>Physical Review B</i> , 2007 , 75,	3.3	16
113	Nuclear spin quantum register in an optically active semiconductor quantum dot. <i>Nature Nanotechnology</i> , 2020 , 15, 999-1004	28.7	16
112	Quantum cryptography with highly entangled photons from semiconductor quantum dots. <i>Science Advances</i> , 2021 , 7,	14.3	16
111	Self-organized evolution of Ge/Si(001) into intersecting bundles of horizontal nanowires during annealing. <i>Applied Physics Letters</i> , 2013 , 103, 083109	3.4	15

110	Influence of the charge carrier tunneling processes on the recombination dynamics in single lateral quantum dot molecules. <i>Physical Review B</i> , 2010 , 82,	3.3	15
109	Tuning single GaAs quantum dots in resonance with a rubidium vapor. <i>Applied Physics Letters</i> , 2010 , 97, 082103	3.4	15
108	Selective area wavelength tuning of InAs/GaAs quantum dots obtained by TiO ₂ and SiO ₂ layer patterning. <i>Applied Physics Letters</i> , 2009 , 94, 161906	3.4	15
107	Shaping site-controlled uniform arrays of SiGe/Si(001) islands by in situ annealing. <i>Applied Physics Letters</i> , 2009 , 95, 183102	3.4	15
106	Guided self-assembly of lateral InAs/GaAs quantum-dot molecules for single molecule spectroscopy. <i>Nanoscale Research Letters</i> , 2006 , 1, 74-78	5	15
105	Resolving the temporal evolution of line broadening in single quantum emitters. <i>Optics Express</i> , 2019 , 27, 35290-35307	3.3	15
104	Crux of Using the Cascaded Emission of a Three-Level Quantum Ladder System to Generate Indistinguishable Photons. <i>Physical Review Letters</i> , 2020 , 125, 233605	7.4	15
103	Multiharmonic Frequency-Chirped Transducers for Surface-Acoustic-Wave Optomechanics. <i>Physical Review Applied</i> , 2018 , 9,	4.3	14
102	Engineering self-assembled SiGe islands for robust electron confinement in Si. <i>Physical Review B</i> , 2010 , 82,	3.3	14
101	Direct laser writing of nanoscale light-emitting diodes. <i>Advanced Materials</i> , 2010 , 22, 3176-80	2.4	14
100	Reading the footprints of strained islands. <i>Microelectronics Journal</i> , 2006 , 37, 1471-1476	1.8	14
99	Single-particle-picture breakdown in laterally weakly confining GaAs quantum dots. <i>Physical Review B</i> , 2019 , 100,	3.3	14
98	Microphotoluminescence spectroscopy of single CdTe/ZnTe quantum dots grown on Si001 substrates. <i>Nanotechnology</i> , 2009 , 20, 075705	3.4	13
97	Strain-induced g-factor tuning in single InGaAs/GaAs quantum dots. <i>Physical Review B</i> , 2016 , 94,	3.3	13
96	Coupling a single solid-state quantum emitter to an array of resonant plasmonic antennas. <i>Scientific Reports</i> , 2018 , 8, 3415	4.9	12
95	Predictive Design and Experimental Realization of InAs/GaAs Superlattices with Tailored Thermal Conductivity. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 4054-4062	3.8	12
94	Effect of second-order piezoelectricity on the excitonic structure of stress-tuned In(Ga)As/GaAs quantum dots. <i>Physical Review B</i> , 2018 , 97,	3.3	12
93	Strain-Tunable Single-Photon Source Based on a Quantum Dot Micropillar System. <i>ACS Photonics</i> , 2019 , 6, 2025-2031	6.3	12

92	Epitaxial growth of lateral quantum dot molecules. <i>Physica Status Solidi (B): Basic Research</i> , 2012 , 249, 702-709	1.3	12
91	Microcavity enhanced silicon light emitting pn-diode. <i>Applied Physics Letters</i> , 2010 , 96, 151113	3.4	12
90	Polarization fine structure and enhanced single-photon emission of self-assembled lateral InGaAs quantum dot molecules embedded in a planar microcavity. <i>Journal of Applied Physics</i> , 2009 , 105, 122408	2.5	12
89	Quantum entanglement in lateral GaAs/AlGaAs quantum dot molecules. <i>Journal of Physics: Conference Series</i> , 2010 , 245, 012027	0.3	12
88	Temperature dependent optical properties of single, hierarchically self-assembled GaAs/AlGaAs quantum dots. <i>Nanoscale Research Letters</i> , 2006 , 1, 172-176	5	12
87	Vectorial nonlinear coherent response of a strongly confined excitonBiexciton system. <i>New Journal of Physics</i> , 2013 , 15, 055006	2.9	11
86	Role of the wetting layer for the SiGe StranskiKrastanow island growth on planar and pit-patterned substrates. <i>Semiconductor Science and Technology</i> , 2011 , 26, 014028	1.8	11
85	Tuning optical modes in slab photonic crystal by atomic layer deposition and laser-assisted oxidation. <i>Journal of Applied Physics</i> , 2011 , 109, 053115	2.5	11
84	Evolution of buried semiconductor nanostructures and origin of stepped surface mounds during capping. <i>Applied Physics Letters</i> , 2006 , 89, 253105	3.4	11
83	Sculpting semiconductor heteroepitaxial islands: from dots to rods. <i>Physical Review Letters</i> , 2007 , 98, 106102	7.4	11
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