

Armando Rastelli

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

253
papers

9,092
citations

55
h-index

83
g-index

284
ext. papers

10,138
ext. citations

5.7
avg. IF

5.95
L-index

#	Paper	IF	Citations
253	Reconfigurable photonics with on-chip single-photon detectors. <i>Nature Communications</i> , 2021 , 12, 1408	17.4	18
252	Quantum dots as potential sources of strongly entangled photons: Perspectives and challenges for applications in quantum networks. <i>Applied Physics Letters</i> , 2021 , 118, 100502	3.4	7
251	Bright Single Photon Emission from Quantum Dots Embedded in a Broadband Planar Optical Antenna (Advanced Optical Materials 7/2021). <i>Advanced Optical Materials</i> , 2021 , 9, 2170025	8.1	1
250	Quantum cryptography with highly entangled photons from semiconductor quantum dots. <i>Science Advances</i> , 2021 , 7,	14.3	16
249	Quantum teleportation with imperfect quantum dots. <i>Npj Quantum Information</i> , 2021 , 7,	8.6	11
248	Bright Single Photon Emission from Quantum Dots Embedded in a Broadband Planar Optical Antenna. <i>Advanced Optical Materials</i> , 2021 , 9, 2001490	8.1	4
247	Cross-plane thermal conductivity of GaN/AlN superlattices. <i>Applied Physics Letters</i> , 2021 , 118, 062105	3.4	2
246	GaAs quantum dots grown by droplet etching epitaxy as quantum light sources. <i>Applied Physics Letters</i> , 2021 , 119, 120502	3.4	2
245	Electric field induced tuning of electronic correlation in weakly confining quantum dots. <i>Physical Review B</i> , 2021 , 104,	3.3	5
244	Strain-Controlled Quantum Dot Fine Structure for Entangled Photon Generation at 1550 nm.. <i>Nano Letters</i> , 2021 , 21, 10501-10506	11.5	0
243	Quantum hydrodynamics of a single particle. <i>Light: Science and Applications</i> , 2020 , 9, 85	16.7	3
242	Purcell-enhanced single-photon emission from a strain-tunable quantum dot in a cavity-waveguide device. <i>Applied Physics Letters</i> , 2020 , 117, 254002	3.4	5
241	GaAs Quantum Dot in a Parabolic Microcavity Tuned to Rb D. <i>ACS Photonics</i> , 2020 , 7, 29-35	6.3	5
240	Quantum Dot Optomechanics in Suspended Nanophononic Strings. <i>Advanced Quantum Technologies</i> , 2020 , 3, 1900102	4.3	10
239	Nuclear spin quantum register in an optically active semiconductor quantum dot. <i>Nature Nanotechnology</i> , 2020 , 15, 999-1004	28.7	16
238	A hybrid (Al)GaAs-LiNbO3 surface acoustic wave resonator for cavity quantum dot optomechanics. <i>Applied Physics Letters</i> , 2020 , 117, 121106	3.4	7
237	Origin of Antibunching in Resonance Fluorescence. <i>Physical Review Letters</i> , 2020 , 125, 170402	7.4	2

236	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
235	Surface passivation and oxide encapsulation to improve optical properties of a single GaAs quantum dot close to the surface. <i>Applied Surface Science</i> , 2020 , 532, 147360	6.7	7
234	Large-range frequency tuning of a narrow-linewidth quantum emitter. <i>Applied Physics Letters</i> , 2020 , 117, 083106	3.4	5
233	Correlations between optical properties and Voronoi-cell area of quantum dots. <i>Physical Review B</i> , 2019 , 100,	3.3	8
232	Strain-Tunable Single Photon Sources in WSe Monolayers. <i>Nano Letters</i> , 2019 , 19, 6931-6936	11.5	33
231	Active tuning of the g-tensor in InGaAs/GaAs quantum dots via strain. <i>Physical Review B</i> , 2019 , 99,	3.3	8
230	Droplet epitaxy of semiconductor nanostructures for quantum photonic devices. <i>Nature Materials</i> , 2019 , 18, 799-810	27	82
229	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
228	Complete characterization of GaAs gradient-elastic tensors and reconstruction of internal strain in GaAs/AlGaAs quantum dots using nuclear magnetic resonance. <i>Physical Review B</i> , 2019 , 99,	3.3	1
227	Resonance Fluorescence of GaAs Quantum Dots with Near-Unity Photon Indistinguishability. <i>Nano Letters</i> , 2019 , 19, 2404-2410	11.5	36
226	Ultrafast pulse phase shifts in a charged-quantum-dot-micropillar system. <i>Physical Review B</i> , 2019 , 99,	3.3	4
225	Micro-machining of PMN-PT Crystals with Ultrashort Laser Pulses. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	7
224	Strain-Tunable Single-Photon Source Based on a Quantum Dot-Micropillar System. <i>ACS Photonics</i> , 2019 , 6, 2025-2031	6.3	12
223	Entanglement Swapping with Photons Generated on Demand by a Quantum Dot. <i>Physical Review Letters</i> , 2019 , 123, 160501	7.4	48
222	Highly indistinguishable single photons from incoherently excited quantum dots. <i>Physical Review B</i> , 2019 , 100,	3.3	19
221	Slow and fast single photons from a quantum dot interacting with the excited state hyperfine structure of the Cesium D-line. <i>Scientific Reports</i> , 2019 , 9, 13728	4.9	6
220	A frequency-tunable nanomembrane mechanical oscillator with embedded quantum dots. <i>Applied Physics Letters</i> , 2019 , 115, 181902	3.4	2
219	Resolving the temporal evolution of line broadening in single quantum emitters. <i>Optics Express</i> , 2019 , 27, 35290-35307	3.3	15

218	Single-particle-picture breakdown in laterally weakly confining GaAs quantum dots. <i>Physical Review B</i> , 2019 , 100,	3.3	14
217	Coupling a single solid-state quantum emitter to an array of resonant plasmonic antennas. <i>Scientific Reports</i> , 2018 , 8, 3415	4.9	12
216	On-demand generation of background-free single photons from a solid-state source. <i>Applied Physics Letters</i> , 2018 , 112, 093106	3.4	132
215	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
214	Multiharmonic Frequency-Chirped Transducers for Surface-Acoustic-Wave Optomechanics. <i>Physical Review Applied</i> , 2018 , 9,	4.3	14
213	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
212	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
211	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
210	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
209	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
208	Cross calibration of deformation potentials and gradient-elastic tensors of GaAs using photoluminescence and nuclear magnetic resonance spectroscopy in GaAs/AlGaAs quantum dot structures. <i>Physical Review B</i> , 2018 , 97,	3.3	6
207	Effects of dielectric stoichiometry on the photoluminescence properties of encapsulated WSe ₂ monolayers. <i>Nano Research</i> , 2018 , 11, 1399-1414	10	10
206	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
205	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
204	All-photon quantum teleportation using on-demand solid-state quantum emitters. <i>Science Advances</i> , 2018 , 4, eaau1255	14.3	37
203	On-demand semiconductor source of 780-nm single photons with controlled temporal wave packets. <i>Physical Review B</i> , 2018 , 97,	3.3	10
202	Independent tuning of excitonic emission energy and decay time in single semiconductor quantum dots. <i>Applied Physics Letters</i> , 2017 , 110, 151102	3.4	10
201	On-Chip Single-Plasmon Nanocircuit Driven by a Self-Assembled Quantum Dot. <i>Nano Letters</i> , 2017 , 17, 4291-4296	11.5	22

200	Highly indistinguishable and strongly entangled photons from symmetric GaAs quantum dots. <i>Nature Communications</i> , 2017 , 8, 15506	17.4	138
199	Phonon-Assisted Two-Photon Interference from Remote Quantum Emitters. <i>Nano Letters</i> , 2017 , 17, 4090-4095	1.9	57
198	Comparison of different bonding techniques for efficient strain transfer using piezoelectric actuators. <i>Journal of Applied Physics</i> , 2017 , 121, 135303	2.5	7
197	Electrically-Pumped Wavelength-Tunable GaAs Quantum Dots Interfaced with Rubidium Atoms. <i>ACS Photonics</i> , 2017 , 4, 868-872	6.3	23
196	Multi-harmonic quantum dot optomechanics in fused LiNbO ₃ (Al)GaAs hybrids. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 43LT01	3	19
195	Two-photon interference from two blinking quantum emitters. <i>Physical Review B</i> , 2017 , 96,	3.3	8
194	Spontaneous brightening of dark excitons in GaAs/AlGaAs quantum dots near a cleaved facet. <i>Physical Review B</i> , 2017 , 95,	3.3	9
193	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
192	Quantum-Dot Single-Photon Sources for Entanglement Enhanced Interferometry. <i>Physical Review Letters</i> , 2017 , 118, 257402	7.4	39
191	Reversible Control of In-Plane Elastic Stress Tensor in Nanomembranes. <i>Advanced Optical Materials</i> , 2016 , 4, 682-687	8.1	20
190	Strain-induced g-factor tuning in single InGaAs/GaAs quantum dots. <i>Physical Review B</i> , 2016 , 94,	3.3	13
189	Inter-sublevel dynamics in single InAs/GaAs quantum dots induced by strong terahertz excitation. <i>Applied Physics Letters</i> , 2016 , 108, 082107	3.4	5
188	Heavy-Hole States in Germanium Hut Wires. <i>Nano Letters</i> , 2016 , 16, 6879-6885	11.5	44
187	Wavelength-tunable sources of entangled photons interfaced with atomic vapours. <i>Nature Communications</i> , 2016 , 7, 10375	17.4	86
186	ICSI-9, Montréal 2015: Silicon for now and beyond. <i>Thin Solid Films</i> , 2016 , 602, 1-2	2.2	
185	Evolution of thermal, structural, and optical properties of SiGe superlattices upon thermal treatment (Phys. Status Solidi A 3(2016)). <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016 , 213, 840-840	1.6	
184	Evolution of thermal, structural, and optical properties of SiGe superlattices upon thermal treatment. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016 , 213, 533-540	1.6	5
183	Thermoelectric properties of Ge/Si heterostructures: A combined theoretical and experimental study. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016 , 213, 524-532	1.6	6

182	Narrow-line self-assembled GaAs quantum dots for plasmonics. <i>Applied Physics Letters</i> , 2015 , 106, 101114	104	3
181	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
180	Fourier synthesis of radiofrequency nanomechanical pulses with different shapes. <i>Nature Nanotechnology</i> , 2015 , 10, 512-6	28.7	52
179	Single photons on-demand from light-hole excitons in strain-engineered quantum dots. <i>Nano Letters</i> , 2015 , 15, 422-7	11.5	23
178	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
177	An artificial Rb atom in a semiconductor with lifetime-limited linewidth. <i>Physical Review B</i> , 2015 , 92,	3.3	43
176	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
175	Engineering of Quantum Dot Photon Sources via Electro-elastic Fields. <i>Nano-optics and Nanophotonics</i> , 2015 , 277-302	0	4
174	Single photons on demand from novel site-controlled GaAsN/GaAsN:H quantum dots. <i>Nano Letters</i> , 2014 , 14, 1275-80	11.5	28
173	A light-hole exciton in a quantum dot. <i>Nature Physics</i> , 2014 , 10, 46-51	16.2	94
172	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
171	Highly entangled photons from hybrid piezoelectric-semiconductor quantum dot devices. <i>Nano Letters</i> , 2014 , 14, 3439-44	11.5	73
170	Time-resolved two-photon excitation of dark states in quantum dots. <i>Applied Physics Letters</i> , 2014 , 104, 143114	3.4	4
169	Thermal transport through short-period SiGe nanodot superlattices. <i>Journal of Applied Physics</i> , 2014 , 115, 044312	2.5	20
168	Anomalous anticrossing of neutral exciton states in GaAs/AlGaAs quantum dots. <i>Physical Review B</i> , 2014 , 89,	3.3	17
167	Strain-induced active tuning of the coherent tunneling in quantum dot molecules. <i>Physical Review B</i> , 2014 , 89,	3.3	20
166	Volume dependence of excitonic fine structure splitting in geometrically similar quantum dots. <i>Physical Review B</i> , 2014 , 90,	3.3	20
165	Excitons Confined in Single Semiconductor Quantum Rings: Observation and Manipulation of Aharonov-Bohm-Type Oscillations. <i>Nanoscience and Technology</i> , 2014 , 299-328	0.6	1

164	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
163	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
162	A nanomembrane-based wavelength-tunable high-speed single-photon-emitting diode. <i>Nano Letters</i> , 2013 , 13, 5808-13	11.5	24
161	Independent control of exciton and biexciton energies in single quantum dots via electroelastic fields. <i>Physical Review B</i> , 2013 , 88,	3.3	26
160	Formation and characterization of multilayer GeSi nanowires on miscut Si (001) substrates. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 834-8	1.3	1
159	Vectorial nonlinear coherent response of a strongly confined excitonBiexciton system. <i>New Journal of Physics</i> , 2013 , 15, 055006	2.9	11
158	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
157	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
156	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
155	Monolithic growth of ultrathin Ge nanowires on Si(001). <i>Physical Review Letters</i> , 2012 , 109, 085502	7.4	73
154	Controlling the formation of quantum dot pairs using nanohole templates. <i>Journal of Crystal Growth</i> , 2012 , 338, 232-238	1.6	7
153	Straining nanomembranes via highly mismatched heteroepitaxial growth: InAs islands on compliant Si substrates. <i>ACS Nano</i> , 2012 , 6, 10287-95	16.7	18
152	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
151	Excited-state spectroscopy of single lateral self-assembled InGaAs quantum dot molecules. <i>Physical Review B</i> , 2012 , 85,	3.3	7
150	Transient reflection: a versatile technique for ultrafast spectroscopy of a single quantum dot in complex environments. <i>Nano Letters</i> , 2012 , 12, 453-7	11.5	9
149	Site-controlled SiGe islands on patterned Si(001): Morphology, composition profiles, and devices. <i>Physica Status Solidi (B): Basic Research</i> , 2012 , 249, 752-763	1.3	3
148	Epitaxial growth of lateral quantum dot molecules. <i>Physica Status Solidi (B): Basic Research</i> , 2012 , 249, 702-709	1.3	12
147	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

146	Ultrafast coherent spectroscopy of a single self-assembled quantum dot. <i>Physica Status Solidi (B): Basic Research</i> , 2012 , 249, 721-730	1.3	3
145	Quantum state tomography measurements on strain-tuned In _x Ga _{1-x} As/GaAs quantum dots. <i>Physica Status Solidi (B): Basic Research</i> , 2012 , 249, 697-701	1.3	1
144	Transient absorption spectroscopy of a single lateral InGaAs quantum dot molecule. <i>Physica Status Solidi (B): Basic Research</i> , 2012 , 249, 731-736	1.3	1
143	Positioning plasmonic nanostructures on single quantum emitters. <i>Physica Status Solidi (B): Basic Research</i> , 2012 , 249, 678-686	1.3	19
142	Growth and spectroscopy of single lateral InGaAs/GaAs quantum dot molecules. <i>Physica Status Solidi (B): Basic Research</i> , 2012 , 249, 710-720	1.3	1
141	Nanomembrane quantum-light-emitting diodes integrated onto piezoelectric actuators. <i>Advanced Materials</i> , 2012 , 24, 2668-72	2.4	102
140	Mode tuning of photonic crystal nanocavities by photoinduced non-thermal oxidation. <i>Applied Physics Letters</i> , 2012 , 100, 033116	3.4	25
139	Nano-sized light emitting diodes by near field laser exposure. <i>Applied Physics Letters</i> , 2011 , 98, 183102	3.4	4
138	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
137	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
136	Self-Ordering of Misfit Dislocation Segments in Epitaxial SiGe Islands on Si(001). <i>Journal of Applied Physics</i> , 2011 , 110, 044310	2.5	5
135	Role of the wetting layer for the SiGe Stranski-Krastanow island growth on planar and pit-patterned substrates. <i>Semiconductor Science and Technology</i> , 2011 , 26, 014028	1.8	11
134	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
133	TEM of Nano-LEDs made by laser writing. <i>Journal of Physics: Conference Series</i> , 2011 , 326, 012055	0.3	0
132	Investigation of diffusion in AlAs/GaAs distributed Bragg reflectors using HAADF STEM imaging. <i>Journal of Physics: Conference Series</i> , 2011 , 326, 012035	0.3	
131	Hybrid semiconductor-atomic interface: slowing down single photons from a quantum dot. <i>Nature Photonics</i> , 2011 , 5, 230-233	33.9	97
130	Optical spectroscopy of single Cd _{0.6} Zn _{0.4} Te/ZnTe quantum dots on Si substrate. <i>Thin Solid Films</i> , 2011 , 519, 6554-6556	2.2	1
129	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

128	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
127	Single Neutral Excitons Confined in AsBr ₃ In Situ Etched InGaAs Quantum Rings. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2011 , 6, 51-57	1.3	8
126	Effects of SiO ₂ Encapsulation and Laser Processing on Single CdTe/ZnTe Quantum Dots Grown on Si (001) Substrates. <i>Journal of the Korean Physical Society</i> , 2011 , 59, 489-492	0.6	8
125	Precise control of thermal conductivity at the nanoscale through individual phonon-scattering barriers. <i>Nature Materials</i> , 2010 , 9, 491-5	27	281
124	Hybrid superconductor-semiconductor devices made from self-assembled SiGe nanocrystals on silicon. <i>Nature Nanotechnology</i> , 2010 , 5, 458-64	28.7	129
123	Heterogeneous confinement in laterally coupled InGaAs/GaAs quantum dot molecules under lateral electric fields. <i>Physical Review B</i> , 2010 , 81,	3.3	25
122	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
121	Tuning single GaAs quantum dots in resonance with a rubidium vapor. <i>Applied Physics Letters</i> , 2010 , 97, 082103	3.4	15
120	Microcavity enhanced silicon light emitting pn-diode. <i>Applied Physics Letters</i> , 2010 , 96, 151113	3.4	12
119	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
118	Experimental investigation and modeling of the fine structure splitting of neutral excitons in strain-free GaAs/Al _x Ga _{1-x} As quantum dots. <i>Physical Review B</i> , 2010 , 81,	3.3	34
117	Compositional evolution of SiGe islands on patterned Si (001) substrates. <i>Applied Physics Letters</i> , 2010 , 97, 203103	3.4	23
116	Engineering self-assembled SiGe islands for robust electron confinement in Si. <i>Physical Review B</i> , 2010 , 82,	3.3	14
115	Strain engineering in Si via closely stacked, site-controlled SiGe islands. <i>Applied Physics Letters</i> , 2010 , 96, 193101	3.4	20
114	Spin resonance of electrons confined by SiGe nanostructures. <i>Journal of Physics: Conference Series</i> , 2010 , 200, 062010	0.3	
113	Identifying spins states on self assembled Si/SiGe quantum dots by means of ESR. <i>Journal of Physics: Conference Series</i> , 2010 , 245, 012026	0.3	
112	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
111	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

110	Gate controlled Aharonov-Bohm-type oscillations from single neutral excitons in quantum rings. <i>Physical Review B</i> , 2010 , 82,	3.3	61
109	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
108	Stretchable graphene: a close look at fundamental parameters through biaxial straining. <i>Nano Letters</i> , 2010 , 10, 3453-8	11.5	275
107	Electron spin resonance study of Si/SiGe quantum dots. <i>Physical Review B</i> , 2010 , 81,	3.3	10
106	Quantum entanglement in lateral GaAs/AlGaAs quantum dot molecules. <i>Journal of Physics: Conference Series</i> , 2010 , 245, 012027	0.3	12
105	Direct laser writing of nanoscale light-emitting diodes. <i>Advanced Materials</i> , 2010 , 22, 3176-80	24	14
104	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
103	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
102	Toward quantum interference of photons from independent quantum dots. <i>Applied Physics Letters</i> , 2009 , 95, 261908	3.4	8
101	Microphotoluminescence spectroscopy of single CdTe/ZnTe quantum dots grown on Si001 substrates. <i>Nanotechnology</i> , 2009 , 20, 075705	3.4	13
100	Self-Assembled Quantum Dot Molecules. <i>Advanced Materials</i> , 2009 , 21, 2601-2618	24	104
99	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
98	Control of single quantum dot emission characteristics and fine structure by lateral electric fields. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 302-306	1.3	3
97	Single entangled photon pair emission from an InGaAs/GaAs quantum dot up to temperatures of 30 K. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009 , 6, 389-394		1
96	Advanced quantum dot configurations. <i>Reports on Progress in Physics</i> , 2009 , 72, 046502	14.4	149
95	Optical properties of rolled-up tubular microcavities from shaped nanomembranes. <i>Applied Physics Letters</i> , 2009 , 94, 141901	3.4	53
94	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
93	Optical resonance tuning and polarization of thin-walled tubular microcavities. <i>Optics Letters</i> , 2009 , 34, 2345-7	3	41

92	Epitaxial quantum dots in stretchable optical microcavities. <i>Optics Express</i> , 2009 , 17, 22452-61	3.3	37
91	Local tuning of photonic crystal nanocavity modes by laser-assisted oxidation. <i>Applied Physics Letters</i> , 2009 , 95, 191109	3.4	38
90	Global faceting behavior of strained Ge islands on Si. <i>Nanotechnology</i> , 2009 , 20, 085708	3.4	31
89	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
88	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
87	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
86	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
85	Growth and control of optically active quantum dots. <i>Nanoscience and Technology</i> , 2009 , 31-69	0.6	2
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