

Fabio Beltram

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.

379
papers

13,081
citations

51
h-index

98
g-index

462
ext. papers

14,570
ext. citations

5.3
avg, IF

6.05
L-index

#	Paper	IF	Citations
379	Ultra-clean high-mobility graphene on technologically relevant substrates.. <i>Nanoscale</i> , 2022 ,	7.7	3
378	A spatial multi-scale fluorescence microscopy toolbox discloses entry checkpoints of SARS-CoV-2 variants in Vero E6 cells. <i>Computational and Structural Biotechnology Journal</i> , 2021 , 19, 6140-6156	6.8	3
377	Gate-controlled supercurrent in ballistic InSb nanoflag Josephson junctions. <i>Applied Physics Letters</i> , 2021 , 119, 214004	3.4	1
376	High-Mobility Free-Standing InSb Nanoflags Grown on InP Nanowire Stems for Quantum Devices. <i>ACS Applied Nano Materials</i> , 2021 , 4, 5825-5833	5.6	2
375	Black Phosphorus n-Type Doping by Cu: A Microscopic Surface Investigation. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 13477-13484	3.8	1
374	Electrostatic Control of the Thermoelectric Figure of Merit in Ion-Gated Nanotransistors. <i>Advanced Functional Materials</i> , 2021 , 31, 2104175	15.6	4
373	Impact of electrostatic doping on carrier concentration and mobility in InAs nanowires. <i>Nanotechnology</i> , 2021 , 32, 145204	3.4	2
372	Self-Catalyzed InSb/InAs Quantum Dot Nanowires. <i>Nanomaterials</i> , 2021 , 11,	5.4	3
371	Electrostatic Control of the Thermoelectric Figure of Merit in Ion-Gated Nanotransistors (Adv. Funct. Mater. 37/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170275	15.6	
370	Morphology and Magneto-Transport in Exfoliated Graphene on Ultrathin Crystalline Bi ₂ N ₄ (0001)/Si(111). <i>Advanced Materials Interfaces</i> , 2020 , 7, 1902175	4.6	0
369	Electrical probing of carrier separation in InAs/InP/GaAsSb core-dualshell nanowires. <i>Nano Research</i> , 2020 , 13, 1065-1070	10	6
368	Morphology control of single-crystal InSb nanostructures by tuning the growth parameters. <i>Nanotechnology</i> , 2020 , 31, 384002	3.4	4
367	Growth of Self-Catalyzed InAs/InSb Axial Heterostructured Nanowires: Experiment and Theory. <i>Nanomaterials</i> , 2020 , 10,	5.4	1
366	Orbital Tuning of Tunnel Coupling in InAs/InP Nanowire Quantum Dots. <i>Nano Letters</i> , 2020 , 20, 1693-1699	11.5	9
365	Growth and Strain Relaxation Mechanisms of InAs/InP/GaAsSb Core-Dual-Shell Nanowires. <i>Crystal Growth and Design</i> , 2020 , 20, 1088-1096	3.5	5
364	III-V semiconductor nanostructures and iontronics: InAs nanowire-based electric double layer field effect transistors 2019 ,		3
363	Capturing Metabolism-Dependent Solvent Dynamics in the Lumen of a Trafficking Lysosome. <i>ACS Nano</i> , 2019 , 13, 1670-1682	16.7	8

362	Full electrostatic control of quantum interference in an extended trenched Josephson junction. <i>Physical Review B</i> , 2019 , 99,	3.3	10
361	Thermoelectric Conversion at 30 K in InAs/InP Nanowire Quantum Dots. <i>Nano Letters</i> , 2019 , 19, 3033-3039	3.5	34
360	Toward Quantum Hall Effect in a Josephson Junction. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019 , 13, 1800222	2.5	18
359	Conductometric Sensing with Individual InAs Nanowires. <i>Sensors</i> , 2019 , 19,	3.8	12
358	Anisotropies of the g-factor tensor and diamagnetic coefficient in crystal-phase quantum dots in InP nanowires. <i>Nano Research</i> , 2019 , 12, 2842-2848	10	9
357	Microwave-Assisted Tunneling in Hard-Wall InAs/InP Nanowire Quantum Dots. <i>Scientific Reports</i> , 2019 , 9, 19523	4.9	4
356	Fast-diffusing p75 monomers support apoptosis and growth cone collapse by neurotrophin ligands. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 21563-21572	11.5	24
355	Strong Modulations of Optical Reflectance in Tapered Core-Shell Nanowires. <i>Materials</i> , 2019 , 12,	3.5	8
354	Mapping the mechanical properties of a graphene drum at the nanoscale. <i>2D Materials</i> , 2019 , 6, 025005	5.9	8
353	Ionic-Liquid Gating of InAs Nanowire-Based Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2019 , 29, 1804378	15.6	25
352	Field Effect Transistors: Ionic-Liquid Gating of InAs Nanowire-Based Field-Effect Transistors (Adv. Funct. Mater. 3/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970014	15.6	1
351	Polychromatic emission in a wide energy range from InP-InAs-InP multi-shell nanowires. <i>Nanotechnology</i> , 2019 , 30, 194004	3.4	8
350	STM study of exfoliated few layer black phosphorus annealed in ultrahigh vacuum. <i>2D Materials</i> , 2019 , 6, 015005	5.9	13
349	Workers' Exposure to Nano-Objects with Different Dimensionalities in R&D Laboratories: Measurement Strategy and Field Studies. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	16
348	Atomic and electronic structure of Si dangling bonds in quasi-free-standing monolayer graphene. <i>Nano Research</i> , 2018 , 11, 864-873	10	12
347	Suspended InAs Nanowire-Based Devices for Thermal Conductivity Measurement Using the π Method. <i>Journal of Materials Engineering and Performance</i> , 2018 , 27, 6299-6305	1.6	11
346	Controlling local deformation in graphene using micrometric polymeric actuators. <i>2D Materials</i> , 2018 , 5, 045032	5.9	11
345	Peptide-Based Stealth Nanoparticles for Targeted and pH-Triggered Delivery. <i>Bioconjugate Chemistry</i> , 2017 , 28, 627-635	6.3	23

344	Heterogeneous nucleation of catalyst-free InAs nanowires on silicon. <i>Nanotechnology</i> , 2017 , 28, 065603	3.4	6
343	Crystal Phases in Hybrid Metal-Semiconductor Nanowire Devices. <i>Nano Letters</i> , 2017 , 17, 2336-2341	11.5	4
342	Local anodic oxidation on hydrogen-intercalated graphene layers: oxide composition analysis and role of the silicon carbide substrate. <i>Nanotechnology</i> , 2017 , 28, 105709	3.4	11
341	Simultaneous two-photon imaging of intracellular chloride concentration and pH in mouse pyramidal neurons in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E8770-E8779	11.5	60
340	Self-aggregation propensity of the Tat peptide revealed by UV-Vis, NMR and MD analyses. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 23910-23914	3.6	12
339	Self-Assembled InAs Nanowires as Optical Reflectors. <i>Nanomaterials</i> , 2017 , 7,	5.4	14
338	GHz Electroluminescence Modulation in Nanoscale Subwavelength Emitters. <i>Nano Letters</i> , 2016 , 16, 5521-7	11.5	9
337	Diffusion Tensor Analysis by Two-Dimensional Pair Correlation of Fluorescence Fluctuations in Cells. <i>Biophysical Journal</i> , 2016 , 111, 841-851	2.9	16
336	Quantitative optical lock-in detection for quantitative imaging of switchable and non-switchable components. <i>Microscopy Research and Technique</i> , 2016 , 79, 929-937	2.8	13
335	Interedge backscattering in buried split-gate-defined graphene quantum point contacts. <i>Physical Review B</i> , 2016 , 94,	3.3	10
334	Precursor and mature NGF live tracking: one versus many at a time in the axons. <i>Scientific Reports</i> , 2016 , 6, 20272	4.9	17
333	Tunnel and electrostatic coupling in graphene-LaAlO ₃ /SrTiO ₃ hybrid systems. <i>APL Materials</i> , 2016 , 4, 066101	5.7	9
332	Tunable Esaki Effect in Catalyst-Free InAs/GaSb Core-Shell Nanowires. <i>Nano Letters</i> , 2016 , 16, 7950-7955	11.5	26
331	Geometrical vortex lattice pinning and melting in YBaCuO submicron bridges. <i>Scientific Reports</i> , 2016 , 6, 38677	4.9	10
330	Nucleation and growth mechanism of self-catalyzed InAs nanowires on silicon. <i>Nanotechnology</i> , 2016 , 27, 255601	3.4	19
329	Low-temperature quantum transport in CVD-grown single crystal graphene. <i>Nano Research</i> , 2016 , 9, 1823-1830	10	15
328	Spatiotemporal Fluctuation Analysis: A Powerful Tool for the Future Nanoscopy of Molecular Processes. <i>Biophysical Journal</i> , 2016 , 111, 679-685	2.9	14
327	Gate-Tunable Spatial Modulation of Localized Plasmon Resonances. <i>Nano Letters</i> , 2016 , 16, 5688-93	11.5	20

326	Ligand-induced dynamics of neurotrophin receptors investigated by single-molecule imaging approaches. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 1949-79	6.3	16
325	Bilayer-induced asymmetric quantum Hall effect in epitaxial graphene. <i>Semiconductor Science and Technology</i> , 2015 , 30, 055007	1.8	5
324	Dual fluorescence through Kasha's rule breaking: an unconventional photomechanism for intracellular probe design. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 6144-54	3.4	62
323	Increasing the active surface of titanium islands on graphene by nitrogen sputtering. <i>Applied Physics Letters</i> , 2015 , 106, 083901	3.4	25
322	Towards a Hybrid High Critical Temperature Superconductor Junction With a Semiconducting InAs Nanowire Barrier. <i>Journal of Superconductivity and Novel Magnetism</i> , 2015 , 28, 3429-3437	1.5	10
321	Aptamer-Mediated Codelivery of Doxorubicin and NF- κ B Decoy Enhances Chemosensitivity of Pancreatic Tumor Cells. <i>Molecular Therapy - Nucleic Acids</i> , 2015 , 4, e235	10.7	52
320	Scanning gate imaging of quantum point contacts and the origin of the 0.7 anomaly. <i>Nano Research</i> , 2015 , 8, 948-956	10	5
319	Suspended InAs nanowire Josephson junctions assembled via dielectrophoresis. <i>Nanotechnology</i> , 2015 , 26, 385302	3.4	13
318	Spontaneous membrane-translocating peptides: influence of peptide self-aggregation and cargo polarity. <i>Scientific Reports</i> , 2015 , 5, 16914	4.9	20
317	Rapid and Controllable Digital Microfluidic Heating by Surface Acoustic Waves. <i>Advanced Functional Materials</i> , 2015 , 25, 5895-5901	15.6	61
316	Schwann Cell Contact Guidance versus Boundary-Interaction in Functional Wound Healing along Nano and Microstructured Membranes. <i>Advanced Healthcare Materials</i> , 2015 , 4, 1849-60	10.1	33
315	Unveiling TRPV1 spatio-temporal organization in live cell membranes. <i>PLoS ONE</i> , 2015 , 10, e0116900	3.7	19
314	Controlling the diameter distribution and density of InAs nanowires grown by Au-assisted methods. <i>Semiconductor Science and Technology</i> , 2015 , 30, 115012	1.8	44
313	Sub-micron lateral topography affects endothelial migration by modulation of focal adhesion dynamics. <i>Biomedical Materials (Bristol)</i> , 2015 , 10, 035010	3.5	16
312	Catalyst-free growth of InAs nanowires on Si (111) by CBE. <i>Nanotechnology</i> , 2015 , 26, 415604	3.4	25
311	A surface-acoustic-wave-based cantilever bio-sensor. <i>Biosensors and Bioelectronics</i> , 2015 , 68, 570-576	11.8	18
310	Wharton's Jelly human mesenchymal stem cell contact guidance by noisy nanotopographies. <i>Scientific Reports</i> , 2014 , 4, 3830	4.9	13
309	Acoustofluidics and whole-blood manipulation in surface acoustic wave counterflow devices. <i>Analytical Chemistry</i> , 2014 , 86, 10633-8	7.8	24

308	Nanoscale spin rectifiers controlled by the Stark effect. <i>Nature Nanotechnology</i> , 2014 , 9, 997-1001	28.7	42
307	Dynamics of vortex matter in YBCO sub-micron bridges. <i>Physica C: Superconductivity and Its Applications</i> , 2014 , 506, 188-194	1.3	16
306	Tubeless biochip for chemical stimulation of cells in closed-bioreactors: anti-cancer activity of the catechin-dextran conjugate. <i>RSC Advances</i> , 2014 , 4, 35017-35026	3.7	3
305	Large thermal biasing of individual gated nanostructures. <i>Nano Research</i> , 2014 , 7, 579-587	10	10
304	Terahertz probe of individual subwavelength objects in a water environment. <i>Laser and Photonics Reviews</i> , 2014 , 8, 734-742	8.3	7
303	Microstructured polydimethylsiloxane membranes for peripheral nerve regeneration. <i>Microelectronic Engineering</i> , 2014 , 124, 26-29	2.5	6
302	High-yield nontoxic gene transfer through conjugation of the CM18-Tat11 chimeric peptide with nanosecond electric pulses. <i>Molecular Pharmaceutics</i> , 2014 , 11, 2466-74	5.6	21
301	Site-specific labeling of neurotrophins and their receptors via short and versatile peptide tags. <i>PLoS ONE</i> , 2014 , 9, e113708	3.7	17
300	Mechanistic insight into CM18-Tat11 peptide membrane-perturbing action by whole-cell patch-clamp recording. <i>Molecules</i> , 2014 , 19, 9228-39	4.8	11
299	Synergistic photo-release of drugs by non-linear excitation. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1688, 18		
298	Electrostatic spin control in multi-barrier nanowires. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 3940153		4
297	Terahertz photodetectors based on tapered semiconductor nanowires. <i>Applied Physics Letters</i> , 2014 , 105, 231112	3.4	13
296	Two interconvertible folds modulate the activity of a DNA aptamer against transferrin receptor. <i>Molecular Therapy - Nucleic Acids</i> , 2014 , 3, e144	10.7	27
295	Correlation between morphology and transport properties of quasi-free-standing monolayer graphene. <i>Applied Physics Letters</i> , 2014 , 105, 221604	3.4	18
294	Nanoliter-droplet acoustic streaming via ultra high frequency surface acoustic waves. <i>Advanced Materials</i> , 2014 , 26, 4941-6	24	127
293	Microfluidic pumping through miniaturized channels driven by ultra-high frequency surface acoustic waves. <i>Applied Physics Letters</i> , 2014 , 105, 074106	3.4	38
292	Probing short-range protein Brownian motion in the cytoplasm of living cells. <i>Nature Communications</i> , 2014 , 5, 5891	17.4	144
291	From fast fluorescence imaging to molecular diffusion law on live cell membranes in a commercial microscope. <i>Journal of Visualized Experiments</i> , 2014 , e51994	1.6	10

290	Phase dynamics of low critical current density YBCO Josephson junctions. <i>Physica C: Superconductivity and Its Applications</i> , 2014 , 503, 113-119	1.3	
289	Fast Spatiotemporal Correlation Spectroscopy to Determine Protein Lateral Diffusion Laws in Live Cell Membranes. <i>Biophysical Journal</i> , 2014 , 106, 224a	2.9	2
288	Tubeless biochip for tailoring cell co-cultures in closed microchambers. <i>Microelectronic Engineering</i> , 2014 , 124, 8-12	2.5	
287	Human Mesenchymal Stromal Cell Enhanced Morphological Polarization by Contact Interaction with Polyethylene Terephthalate Nanogratings. <i>Current Nanoscience</i> , 2014 , 10, 773-778	1.4	3
286	Imaging intracellular viscosity by a new molecular rotor suitable for phasor analysis of fluorescence lifetime. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 6223-33	4.4	27
285	Hydrogen storage with titanium-functionalized graphene. <i>Applied Physics Letters</i> , 2013 , 103, 013903	3.4	47
284	Nanowire-based field effect transistors for terahertz detection and imaging systems. <i>Nanotechnology</i> , 2013 , 24, 214005	3.4	33
283	Cancer phototherapy in living cells by multiphoton release of doxorubicin from gold nanospheres. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 4225-4230	7.3	43
282	Electrical properties and band diagram of InSb-InAs nanowire type-III heterojunctions. <i>Journal of Applied Physics</i> , 2013 , 113, 104307	2.5	3
281	Giant thermovoltage in single InAs nanowire field-effect transistors. <i>Nano Letters</i> , 2013 , 13, 3638-42	11.5	48
280	Fast spatiotemporal correlation spectroscopy to determine protein lateral diffusion laws in live cell membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 12307-12	11.5	133
279	Fabrication, operation and flow visualization in surface-acoustic-wave-driven acoustic-counterflow microfluidics. <i>Journal of Visualized Experiments</i> , 2013 ,	1.6	3
278	Revealing the atomic structure of the buffer layer between SiC(0001) and epitaxial graphene. <i>Carbon</i> , 2013 , 51, 249-254	10.4	112
277	Neuronal differentiation on anisotropic substrates and the influence of nanotopographical noise on neurite contact guidance. <i>Biomaterials</i> , 2013 , 34, 6027-36	15.6	53
276	Unveiling LOX-1 receptor interplay with nanotopography: mechanotransduction and atherosclerosis onset. <i>Scientific Reports</i> , 2013 , 3, 1141	4.9	19
275	Influence of Graphene Curvature on Hydrogen Adsorption: Toward Hydrogen Storage Devices. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 11506-11513	3.8	104
274	Easy monitoring of velocity fields in microfluidic devices using spatiotemporal image correlation spectroscopy. <i>Analytical Chemistry</i> , 2013 , 85, 8080-4	7.8	8
273	Suppression of lateral growth in InAs/InAsSb heterostructured nanowires. <i>Journal of Crystal Growth</i> , 2013 , 366, 8-14	1.6	18

272	Synthesis, cellular delivery and in vivo application of dendrimer-based pH sensors. <i>Journal of Visualized Experiments</i> , 2013 ,	1.6	2
271	Ligand signature in the membrane dynamics of single TrkA receptor molecules. <i>Journal of Cell Science</i> , 2013 , 126, 4445-56	5.3	32
270	Resolving the effects of frequency-dependent damping and quantum phase diffusion in YBa ₂ Cu ₃ O _{7-x} Josephson junctions. <i>Physical Review B</i> , 2013 , 87,	3.3	24
269	Towards an Electronic Interferometer based on Spin-Resolved Quantum Hall Edge States. <i>Journal of Physics: Conference Series</i> , 2013 , 456, 012019	0.3	3
268	In vitro efficient transfection by CMETatHybrid peptide: a new tool for gene-delivery applications. <i>PLoS ONE</i> , 2013 , 8, e70108	3.7	21
267	Single particle tracking of acyl carrier protein (ACP)-tagged TrkA receptors in PC12nr5 cells. <i>Journal of Neuroscience Methods</i> , 2012 , 204, 82-86	3	15
266	A novel chimeric cell-penetrating peptide with membrane-disruptive properties for efficient endosomal escape. <i>Journal of Controlled Release</i> , 2012 , 163, 293-303	11.7	106
265	Interaction-free, automatic, on-chip fluid routing by surface acoustic waves. <i>Lab on A Chip</i> , 2012 , 12, 2621-4	4	21
264	Peptidic coating for gold nanospheres multifunctionalizable with photostable and photolabile moieties. <i>Journal of Materials Chemistry</i> , 2012 , 22, 14487		21
263	Intracellular pH measurements made simple by fluorescent protein probes and the phasor approach to fluorescence lifetime imaging. <i>Chemical Communications</i> , 2012 , 48, 5127-9	5.8	35
262	Biocompatible noisy nanotopographies with specific directionality for controlled anisotropic cell cultures. <i>Soft Matter</i> , 2012 , 8, 1109-1119	3.6	25
261	High critical current density and scaling of phase-slip processes in YBaCuO nanowires. <i>Superconductor Science and Technology</i> , 2012 , 25, 035011	3.1	36
260	Terahertz detection by heterostructured InAs/InSb nanowire based field effect transistors. <i>Applied Physics Letters</i> , 2012 , 101, 141103	3.4	23
259	Electrostatic spin control in InAs/InP nanowire quantum dots. <i>Nano Letters</i> , 2012 , 12, 4490-4	11.5	24
258	Intact microtubules preserve transient receptor potential vanilloid 1 (TRPV1) functionality through receptor binding. <i>Journal of Biological Chemistry</i> , 2012 , 287, 7803-11	5.4	27
257	Growth of InAs/InAsSb heterostructured nanowires. <i>Nanotechnology</i> , 2012 , 23, 115606	3.4	43
256	Smart Delivery and Controlled Drug Release with Gold Nanoparticles: New Frontiers in Nanomedicine. <i>Recent Patents on Nanomedicine</i> , 2012 , 2, 34-44		23
255	Room-temperature terahertz detectors based on semiconductor nanowire field-effect transistors. <i>Nano Letters</i> , 2012 , 12, 96-101	11.5	145

254	Semiconductor nanowires for highly sensitive, room-temperature detection of terahertz quantum cascade laser emission. <i>Applied Physics Letters</i> , 2012 , 100, 241101	3-4	37
253	Fluorescence recovery after photobleaching reveals the biochemistry of nucleocytoplasmic exchange. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 403, 2339-51	4-4	9
252	Coherent transport in extremely underdoped Nd _{1.2} Ba _{1.8} Cu ₃ O _z nanostructures. <i>New Journal of Physics</i> , 2012 , 14, 083025	2-9	6
251	Terahertz confocal microscopy with a quantum cascade laser source. <i>Optics Express</i> , 2012 , 20, 21924-31	3-3	42
250	Electron beam induced current in InSb-InAs nanowire type-III heterostructures. <i>Applied Physics Letters</i> , 2012 , 101, 063116	3-4	12
249	Imaging fractional incompressible stripes in integer quantum Hall systems. <i>Physical Review Letters</i> , 2012 , 108, 246801	7-4	24
248	Imaging backscattering through impurity-induced antidots in quantum Hall constrictions. <i>Physical Review B</i> , 2012 , 86,	3-3	14
247	Fluorescent recovery after photobleaching (FRAP) analysis of nuclear export rates identifies intrinsic features of nucleocytoplasmic transport. <i>Journal of Biological Chemistry</i> , 2012 , 287, 5554-61	5-4	14
246	Smart Delivery and Controlled Drug Release with Gold Nanoparticles: New Frontiers in Nanomedicine. <i>Recent Patents on Nanomedicine</i> , 2012 , 2, 34-44		5
245	Nanotopographic control of neuronal polarity. <i>Nano Letters</i> , 2011 , 11, 505-11	11-5	109
244	Manipulation of electron orbitals in hard-wall InAs/InP nanowire quantum dots. <i>Nano Letters</i> , 2011 , 11, 1695-9	11-5	41
243	High efficiency coupling of Terahertz micro-ring quantum cascade lasers to the low-loss optical modes of hollow metallic waveguides. <i>Optics Express</i> , 2011 , 19, 1122-30	3-3	21
242	Magnetotransport investigation of conducting channels and spin splitting in high-density AlGa _N /AlN/GaN two-dimensional electron gas. <i>Physical Review B</i> , 2011 , 83,	3-3	5
241	Guiding a terahertz quantum cascade laser into a flexible silver-coated waveguide. <i>Journal of Applied Physics</i> , 2011 , 110, 063112	2-5	17
240	Self-assembly and electron-beam-induced direct etching of suspended graphene nanostructures. <i>Journal of Applied Physics</i> , 2011 , 110, 064308	2-5	19
239	Quantum transport in low-dimensional AlGa _N /GaN systems. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 5699-5704	2-3	4
238	Microfluidic chip for spatially and temporally controlled biochemical gradient generation in standard cell-culture Petri dishes. <i>Microfluidics and Nanofluidics</i> , 2011 , 11, 763-771	2-8	6
237	Cis-trans photoisomerization properties of GFP chromophore analogs. <i>European Biophysics Journal</i> , 2011 , 40, 1205-14	1-9	21

236	Hot-electron effects in InAs nanowire Josephson junctions. <i>Nano Research</i> , 2011 , 4, 259-265	10	32
235	Multiphoton molecular photorelease in click-chemistry-functionalized gold nanoparticles. <i>Small</i> , 2011 , 7, 3271-5	11	41
234	Synthesis of AlAs and AlAs _{0.5} InAs Core-Shell Nanowires. <i>Crystal Growth and Design</i> , 2011 , 11, 4053-4058	3.5	10
233	Probing the gate-voltage-dependent surface potential of individual InAs nanowires using random telegraph signals. <i>ACS Nano</i> , 2011 , 5, 2191-9	16.7	18
232	Microfluidic chip with temporal and spatial concentration generation capabilities for biological applications. <i>Microelectronic Engineering</i> , 2011 , 88, 1689-1692	2.5	7
231	Growth mechanism of InAs _{0.5} InSb heterostructured nanowires grown by chemical beam epitaxy. <i>Journal of Crystal Growth</i> , 2011 , 323, 304-306	1.6	13
230	Lasing in planar semiconductor diodes. <i>Applied Physics Letters</i> , 2011 , 99, 261110	3.4	2
229	Spatially resolved analysis of edge-channel equilibration in quantum Hall circuits. <i>Physical Review B</i> , 2011 , 83,	3.3	24
228	InAs/InP/InSb Nanowires as Low Capacitance n ⁺ Heterojunction Diodes. <i>Physical Review X</i> , 2011 , 1,	9.1	19
227	Impact of electron heating on the equilibration between quantum Hall edge channels. <i>Physical Review B</i> , 2011 , 84,	3.3	9
226	Cooling electrons from 1 to 0.4 K with V-based nanorefrigerators. <i>Applied Physics Letters</i> , 2011 , 98, 032501	9.4	30
225	Anti-bunched photons from a lateral light-emitting diode. <i>Applied Physics Letters</i> , 2011 , 99, 131103	3.4	1
224	Probing the local temperature of a two-dimensional electron gas microdomain with a quantum dot: Measurement of electron-phonon interaction. <i>Physical Review B</i> , 2011 , 83,	3.3	21
223	Controlled coupling of spin-resolved quantum Hall edge states. <i>Physical Review Letters</i> , 2011 , 107, 236804	9.4	40
222	Proximity effect in a two-dimensional electron gas probed with a lateral quantum dot. <i>Physical Review B</i> , 2011 , 84,	3.3	15
221	Quantum dot spectroscopy of proximity-induced superconductivity in a two-dimensional electron gas. <i>Applied Physics Letters</i> , 2011 , 98, 132101	3.4	9
220	Hybrid InAs nanowire-vanadium proximity SQUID. <i>Nanotechnology</i> , 2011 , 22, 105201	3.4	35
219	Quantitative analysis of Tat peptide binding to import carriers reveals unconventional nuclear transport properties. <i>Journal of Biological Chemistry</i> , 2011 , 286, 12292-9	5.4	23

218	Dendrimer-based fluorescent indicators: in vitro and in vivo applications. <i>PLoS ONE</i> , 2011 , 6, e28450	3.7	27
217	Simultaneous intracellular chloride and pH measurements using a GFP-based sensor. <i>Nature Methods</i> , 2010 , 7, 516-8	21.6	148
216	Quasi-periodic distributed feedback laser. <i>Nature Photonics</i> , 2010 , 4, 165-169	33.9	90
215	Singlet-triplet transition in a few-electron lateral In _{0.75} Ga _{0.25} As/In _{0.75} Al _{0.25} As quantum dot. <i>Applied Physics Letters</i> , 2010 , 96, 142107	3.4	5
214	Coherent detection of electron dephasing. <i>Physical Review Letters</i> , 2010 , 104, 170403	7.4	8
213	Conductance and valley splitting in etched Si/SiGe one-dimensional nanostructures. <i>Physical Review B</i> , 2010 , 81,	3.3	8
212	Electronic implementations of interaction-free measurements. <i>Physical Review B</i> , 2010 , 82,	3.3	10
211	Delocalized-localized transition in a semiconductor two-dimensional honeycomb lattice. <i>Applied Physics Letters</i> , 2010 , 97, 132113	3.4	34
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