Fabio Beltram

List of Publications by Citations

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	Terahertz semiconductor-heterostructure laser. *Nature*, **2002**, 417, 156-9	50.4	1932
378	Empirical spds* tight-binding calculation for cubic semiconductors: General method and material parameters. *Physical Review B*, **1998**, 57, 6493-6507	3.3	581
377	Cell membrane lipid rafts mediate caveolar endocytosis of HIV-1 Tat fusion proteins. *Journal of Biological Chemistry*, **2003**, 278, 34141-9	5.4	356
376	Caveolae-mediated internalization of extracellular HIV-1 tat fusion proteins visualized in real time. *Molecular Therapy*, **2003**, 8, 284-94	11.7	279
375	The optical visibility of graphene: interference colors of ultrathin graphite on SiO(2). *Nano Letters*, **2007**, 7, 2707-10	11.5	221
374	Signatures of the ultrastrong light-matter coupling regime. *Physical Review B*, **2009**, 79,	3.3	219
373	. *IEEE Transactions on Electron Devices*, **1989**, 36, 2065-2082	2.9	203
372	Green fluorescent protein based pH indicators for in vivo use: a review. *Analytical and Bioanalytical Chemistry*, **2009**, 393, 1107-22	4.4	152
371	Dendrimer internalization and intracellular trafficking in living cells. *Molecular Pharmaceutics*, **2010**, 7, 680-8	5.6	150
370	Simultaneous intracellular chloride and pH measurements using a GFP-based sensor. *Nature Methods*, **2010**, 7, 516-8	21.6	148
369	Room-temperature terahertz detectors based on semiconductor nanowire field-effect transistors. *Nano Letters*, **2012**, 12, 96-101	11.5	145
368	Probing short-range protein Brownian motion in the cytoplasm of living cells. *Nature Communications*, **2014**, 5, 5891	17.4	144
367	Scattering-controlled transmission resonances and negative differential conductance by field-induced localization in superlattices. *Physical Review Letters*, **1990**, 64, 3167-3170	7.4	143
366	Fast spatiotemporal correlation spectroscopy to determine protein lateral diffusion laws in live cell membranes. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 12307-12	11.5	133
365	Delivery and subcellular targeting of dendrimer-based fluorescent pH sensors in living cells. *Journal of the American Chemical Society*, **2010**, 132, 18158-67	16.4	130
364	Nanoliter-droplet acoustic streaming via ultra high frequency surface acoustic waves. *Advanced Materials*, **2014**, 26, 4941-6	24	127
363	Development of a novel GFP-based ratiometric excitation and emission pH indicator for intracellular studies. *Biophysical Journal*, **2006**, 90, 3300-14	2.9	122

362	First-order phase transitions in a quantum Hall ferromagnet. *Nature*, **1999**, 402, 638-641	50.4	113
361	Revealing the atomic structure of the buffer layer between SiC(0001) and epitaxial graphene. *Carbon*, **2013**, 51, 249-254	10.4	112
360	InAs/InSb nanowire heterostructures grown by chemical beam epitaxy. *Nanotechnology*, **2009**, 20, 505605	3.4	112
359	Nanotopographic control of neuronal polarity. *Nano Letters*, **2011**, 11, 505-11	11.5	109
358	Resistance resonance in coupled potential wells. *Physical Review Letters*, **1990**, 65, 1929-1932	7.4	107
357	A novel chimeric cell-penetrating peptide with membrane-disruptive properties for efficient endosomal escape. *Journal of Controlled Release*, **2012**, 163, 293-303	11.7	106
356	Influence of Graphene Curvature on Hydrogen Adsorption: Toward Hydrogen Storage Devices. *Journal of Physical Chemistry C*, **2013**, 117, 11506-11513	3.8	104
355	Cis-trans photoisomerization of fluorescent-protein chromophores. *Journal of Physical Chemistry B*, **2008**, 112, 10714-22	3.4	103
354	Neuronal polarity selection by topography-induced focal adhesion control. *Biomaterials*, **2010**, 31, 4682-94	13.6	100
353	Quantitative FRET analysis with the EGFP-mCherry fluorescent protein pair. *Photochemistry and Photobiology*, **2009**, 85, 287-97	3.6	98
352	Vertically emitting microdisk lasers. *Nature Photonics*, **2009**, 3, 46-49	33.9	92
351	Quasi-periodic distributed feedback laser. *Nature Photonics*, **2010**, 4, 165-169	33.9	90
350	Dynamic regulation of ERK2 nuclear translocation and mobility in living cells. *Journal of Cell Science*, **2006**, 119, 4952-63	5.3	84
349	Controlled Exciton-Photon Interaction in Semiconductor Bulk Microcavities. *Physical Review Letters*, **1995**, 75, 3906-3909	7.4	83
348	Acoustic-counterflow microfluidics by surface acoustic waves. *Applied Physics Letters*, **2008**, 92, 104103	3.4	76
347	In vivo study of HIV-1 Tat arginine-rich motif unveils its transport properties. *Molecular Therapy*, **2007**, 15, 1313-22	11.7	72
346	Linewidth enhancement factor of terahertz quantum cascade lasers. *Applied Physics Letters*, **2008**, 92, 071106	3.4	65
345	Tunable terahertz quantum cascade lasers with an external cavity. *Applied Physics Letters*, **2007**, 91, 121104	3.4	64

344	Green fluorescent proteins as optically controllable elements in bioelectronics. *Applied Physics Letters*, **2001**, 79, 3353-3355	3.4	64
343	Dual fluorescence through Kasha's rule breaking: an unconventional photomechanism for intracellular probe design. *Journal of Physical Chemistry B*, **2015**, 119, 6144-54	3.4	62
342	Rapid and Controllable Digital Microfluidic Heating by Surface Acoustic Waves. *Advanced Functional Materials*, **2015**, 25, 5895-5901	15.6	61
341	Simultaneous two-photon imaging of intracellular chloride concentration and pH in mouse pyramidal neurons in vivo. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E8770-E8779	11.5	60
340	The effect of alternative neuronal differentiation pathways on PC12 cell adhesion and neurite alignment to nanogratings. *Biomaterials*, **2010**, 31, 2565-73	15.6	60
339	High-performance operation of single-mode terahertz quantum cascade lasers with metallic gratings. *Applied Physics Letters*, **2005**, 87, 181101	3.4	60
338	Spectroscopic and structural study of proton and halide ion cooperative binding to gfp. *Biophysical Journal*, **2007**, 93, 232-44	2.9	59
337	Single amino acid replacement makes Aequorea victoria fluorescent proteins reversibly photoswitchable. *Journal of the American Chemical Society*, **2010**, 132, 85-95	16.4	58
336	Recruitment of human cyclin T1 to nuclear bodies through direct interaction with the PML protein. *EMBO Journal*, **2003**, 22, 2156-66	13	55
335	Analysis of the dark current in doped-well multiple quantum well AlGaAs infrared photodetectors. *Journal of Applied Physics*, **1989**, 66, 5656-5658	2.5	55
334	Excitonic properties of Zn1-xCdxSe/ZnSe strained quantum wells. *Physical Review B*, **1995**, 51, 5171-5175	3.3	54
333	Stark-cyclotron resonance in a semiconductor superlattice. *Physical Review Letters*, **1996**, 76, 3618-3621	7.4	54
332	Neuronal differentiation on anisotropic substrates and the influence of nanotopographical noise on neurite contact guidance. *Biomaterials*, **2013**, 34, 6027-36	15.6	53
331	Photoreversible Dark State in a Tristable Green Fluorescent Protein Variant. *Journal of Physical Chemistry B*, **2003**, 107, 1679-1684	3.4	53
330	Aptamer-Mediated Codelivery of Doxorubicin and NF-κB Decoy Enhances Chemosensitivity of Pancreatic Tumor Cells. *Molecular Therapy - Nucleic Acids*, **2015**, 4, e235	10.7	52
329	Green fluorescent protein ground states: the influence of a second protonation site near the chromophore. *Biochemistry*, **2007**, 46, 5494-504	3.2	52
328	Single-mode operation of terahertz quantum cascade lasers with distributed feedback resonators. *Applied Physics Letters*, **2004**, 84, 5446-5448	3.4	51
327	Interedge strong-to-weak scattering evolution at a constriction in the fractional quantum Hall regime. *Physical Review Letters*, **2004**, 93, 046801	7.4	51

326	Nonlinear quasiparticle tunneling between fractional quantum hall edges. *Physical Review Letters*, **2003**, 90, 046805	7.4	50
325	Visualization of in vivo direct interaction between HIV-1 TAT and human cyclin T1 in specific subcellular compartments by fluorescence resonance energy transfer. *Journal of Biological Chemistry*, **2001**, 276, 39220-5	5.4	50
324	Giant thermovoltage in single InAs nanowire field-effect transistors. *Nano Letters*, **2013**, 13, 3638-42	11.5	48
323	Polydimethylsiloxane-LiNbO3 surface acoustic wave micropump devices for fluid control into microchannels. *Lab on A Chip*, **2008**, 8, 1557-63	7.2	48
322	Terahertz quantum-cascade lasers based on an interlaced photon-phonon cascade. *Applied Physics Letters*, **2004**, 84, 1266-1268	3.4	48
321	High-performance continuous-wave operation of superlattice terahertz quantum-cascade lasers. *Applied Physics Letters*, **2003**, 82, 1518-1520	3.4	48
320	Hydrogen storage with titanium-functionalized graphene. *Applied Physics Letters*, **2013**, 103, 013903	3.4	47
319	Faceting of InAs/InSb Heterostructured Nanowires. *Crystal Growth and Design*, **2010**, 10, 4038-4042	3.5	47
318	Surface plasmon photonic structures in terahertz quantum cascade lasers. *Optics Express*, **2006**, 14, 5335-45	3.5	47
317	Coherent dynamics of photoexcited green fluorescent proteins. *Physical Review Letters*, **2001**, 86, 3439-42	7.4	47
316	The Enhanced Green Fluorescent Protein as a Tool for the Analysis of Protein Dynamics and Localization: Local Fluorescence Study at the Single-molecule Level. *Photochemistry and Photobiology*, **2000**, 71, 771-776	3.6	47
315	PC12 differentiation on biopolymer nanostructures. *Nanotechnology*, **2007**, 18, 505103	3.4	46
314	Interaction phenomena between deep levels and minibands in semiconductor superlattices. *Physical Review B*, **1988**, 38, 3580-3582	3.3	45
313	Controlling the diameter distribution and density of InAs nanowires grown by Au-assisted methods. *Semiconductor Science and Technology*, **2015**, 30, 115012	1.8	44
312	Cancer phototherapy in living cells by multiphoton release of doxorubicin from gold nanospheres. *Journal of Materials Chemistry B*, **2013**, 1, 4225-4230	7.3	43
311	Growth of InAs/InAsSb heterostructured nanowires. *Nanotechnology*, **2012**, 23, 115606	3.4	43
310	Surface-acoustic-wave counterflow micropumps for on-chip liquid motion control in two-dimensional microchannel arrays. *Lab on A Chip*, **2010**, 10, 1997-2000	7.2	43
309	Nanoscale spin rectifiers controlled by the Stark effect. *Nature Nanotechnology*, **2014**, 9, 997-1001	28.7	42

308	Terahertz confocal microscopy with a quantum cascade laser source. *Optics Express*, **2012**, 20, 21924-31	3.3	42
307	Nuclear organization and the control of HIV-1 transcription. *Gene*, **2004**, 326, 1-11	3.8	42
306	Manipulation of electron orbitals in hard-wall InAs/InP nanowire quantum dots. *Nano Letters*, **2011**, 11, 1695-9	11.5	41
305	Multiphoton molecular photorelease in click-chemistry-functionalized gold nanoparticles. *Small*, **2011**, 7, 3271-5	11	41
304	Real-time measurement of endosomal acidification by a novel genetically encoded biosensor. *Analytical and Bioanalytical Chemistry*, **2009**, 393, 1123-33	4.4	41
303	Tuning the transport properties of HIV-1 Tat arginine-rich motif in living cells. *Traffic*, **2008**, 9, 528-39	5.7	41
302	High-power surface emission from terahertz distributed feedback lasers with a dual-slit unit cell. *Applied Physics Letters*, **2010**, 96, 191109	3.4	40
301	Controlled coupling of spin-resolved quantum Hall edge states. *Physical Review Letters*, **2011**, 107, 236804	7.4	40
300	Particle-hole symmetric Luttinger liquids in a quantum Hall circuit. *Physical Review Letters*, **2005**, 95, 156804	7.4	40
299	Negative transconductance via gating of the quantum well subbands in a resonant tunneling transistor. *Applied Physics Letters*, **1988**, 53, 219-221	3.4	40
298	Microfluidic pumping through miniaturized channels driven by ultra-high frequency surface acoustic waves. *Applied Physics Letters*, **2014**, 105, 074106	3.4	38
297	Semiconductor nanowires for highly sensitive, room-temperature detection of terahertz quantum cascade laser emission. *Applied Physics Letters*, **2012**, 100, 241101	3.4	37
296	High critical current density and scaling of phase-slip processes in YBaCuO nanowires. *Superconductor Science and Technology*, **2012**, 25, 035011	3.1	36
295	Little-Parks effect in single nanoscale YBa2Cu3O6+x rings. *Physical Review B*, **2010**, 81,	3.3	36
294	Raman study of chromophore states in photochromic fluorescent proteins. *Journal of the American Chemical Society*, **2009**, 131, 96-103	16.4	36
293	GaAs avalanche photodiodes and the effect of rapid thermal annealing on crystalline quality of GaAs grown on Si by molecular-beam epitaxy. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **1987**, 5, 822		36
292	Intracellular pH measurements made simple by fluorescent protein probes and the phasor approach to fluorescence lifetime imaging. *Chemical Communications*, **2012**, 48, 5127-9	5.8	35
291	Probing nuclear localization signal-importin alpha binding equilibria in living cells. *Journal of Biological Chemistry*, **2009**, 284, 36638-36646	5.4	35

290	Hybrid InAs nanowire-vanadium proximity SQUID. *Nanotechnology*, **2011**, 22, 105201	3.4	35
289	Thermoelectric Conversion at 30 K in InAs/InP Nanowire Quantum Dots. *Nano Letters*, **2019**, 19, 3033-3039	12.5	34
288	Delocalized-localized transition in a semiconductor two-dimensional honeycomb lattice. *Applied Physics Letters*, **2010**, 97, 132113	3.4	34
287	High-intensity interminiband terahertz emission from chirped superlattices. *Applied Physics Letters*, **2002**, 80, 1867-1869	3.4	34
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285	Schwann Cell Contact Guidance versus Boundary -Interaction in Functional Wound Healing along Nano and Microstructured Membranes. *Advanced Healthcare Materials*, **2015**, 4, 1849-60	10.1	33
284	Ligand signature in the membrane dynamics of single TrkA receptor molecules. *Journal of Cell Science*, **2013**, 126, 4445-56	5.3	32
283	Hot-electron effects in InAs nanowire Josephson junctions. *Nano Research*, **2011**, 4, 259-265	10	32
282	Magnetotransport in high-g-factor low-density two-dimensional electron systems confined in In0.75Ga0.25As/In0.75Al0.25As quantum wells. *Physical Review B*, **2004**, 69,	3.3	32
281	Tunnel-assisted manipulation of intersubband polaritons in asymmetric coupled quantum wells. *Applied Physics Letters*, **2006**, 89, 171109	3.4	31
280	Cooling electrons from 1 to 0.4 K with V-based nanorefrigerators. *Applied Physics Letters*, **2011**, 98, 032501	3.4	30
279	Ultraefficient cooling in ferromagnet-superconductor microrefrigerators. *Applied Physics Letters*, **2002**, 80, 3784-3786	3.4	30
278	Manipulation and generation of supercurrent in out-of-equilibrium Josephson tunnel nanojunctions. *Physical Review Letters*, **2008**, 101, 077004	7.4	29
277	Single-Electron Subpicosecond Coherent Dynamics in KBr F Centers. *Physical Review Letters*, **1996**, 77, 3463-3466	7.4	29
276	Tuning a distributed feedback laser with a coupled microcavity. *Optics Express*, **2010**, 18, 19185-91	3.3	28
275	Directional PC12 cell migration along plastic nanotracks. *IEEE Transactions on Biomedical Engineering*, **2009**, 56, 2692-6	5	28
274	Crossed Andreev reflection-induced magnetoresistance. *Physical Review Letters*, **2006**, 97, 087001	7.4	28
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270	Two interconvertible folds modulate the activity of a DNA aptamer against transferrin receptor. *Molecular Therapy - Nucleic Acids*, **2014**, 3, e144	10.7	27
269	Intact microtubules preserve transient receptor potential vanilloid 1 (TRPV1) functionality through receptor binding. *Journal of Biological Chemistry*, **2012**, 287, 7803-11	5.4	27
268	Electronic properties of quantum dot systems realized in semiconductor nanowires. *Semiconductor Science and Technology*, **2010**, 25, 024007	1.8	27
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266	Dendrimer-based fluorescent indicators: in vitro and in vivo applications. *PLoS ONE*, **2011**, 6, e28450	3.7	27
265	Selective control of edge-channel trajectories by scanning gate microscopy. *Physica E: Low-Dimensional Systems and Nanostructures*, **2010**, 42, 1038-1041	3	26
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263	Increasing the active surface of titanium islands on graphene by nitrogen sputtering. *Applied Physics Letters*, **2015**, 106, 083901	3.4	25
262	Catalyst-free growth of InAs nanowires on Si (111) by CBE. *Nanotechnology*, **2015**, 26, 415604	3.4	25
261	Biocompatible noisy nanotopographies with specific directionality for controlled anisotropic cell cultures. *Soft Matter*, **2012**, 8, 1109-1119	3.6	25
260	Single-step bifunctional coating for selectively conjugable nanoparticles. *Nanoscale*, **2010**, 2, 2783-9	7.7	25
259	Anticrossings of spin-split Landau levels in an InAs two-dimensional electron gas with spin-orbit coupling. *Physical Review B*, **2005**, 71,	3.3	25
258	Andreev reflection in Si-engineered Al/InGaAs hybrid junctions. *Applied Physics Letters*, **1998**, 73, 3890-3892	3.4	25
257	Ionic-Liquid Gating of InAs Nanowire-Based Field-Effect Transistors. *Advanced Functional Materials*, **2019**, 29, 1804378	15.6	25
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254	Resolving the effects of frequency-dependent damping and quantum phase diffusion in YBa2Cu3O7 Josephson junctions. *Physical Review B*, **2013**, 87,	3.3	24
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250	Andreev reflection and cyclotron motion at superconductor ormal-metal interfaces. *Physical Review B*, **2005**, 72,	3.3	24
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246	Peptide-Based Stealth Nanoparticles for Targeted and pH-Triggered Delivery. *Bioconjugate Chemistry*, **2017**, 28, 627-635	6.3	23
245	Terahetz detection by heterostructed InAs/InSb nanowire based field effect transistors. *Applied Physics Letters*, **2012**, 101, 141103	3.4	23
244	Smart Delivery and Controlled Drug Release with Gold Nanoparticles: New Frontiers in Nanomedicine. *Recent Patents on Nanomedicine*, **2012**, 2, 34-44		23
243	Quantitative analysis of Tat peptide binding to import carriers reveals unconventional nuclear transport properties. *Journal of Biological Chemistry*, **2011**, 286, 12292-9	5.4	23
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236	Low-threshold quantum-cascade lasers at 3.5 THz (lambda = 85 microm). *Optics Letters*, **2003**, 28, 810-2	3	22
235	High-yield nontoxic gene transfer through conjugation of the CME Tat chimeric peptide with nanosecond electric pulses. *Molecular Pharmaceutics*, **2014**, 11, 2466-74	5.6	21
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207	Injection in a continuum miniband: Observation of negative transconductance in a superlattice-base transistor. *Applied Physics Letters*, **1989**, 55, 1534-1536	3.4	19
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