

Vincenzo Piazza

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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.

74 papers	14,146 citations	23 h-index	77 g-index
77 ext. papers	17,831 ext. citations	5.6 avg, IF	6.63 L-index

#	Paper	IF	Citations
74	Ultrastructural Characterization of the Lower Motor System in a Mouse Model of Krabbe Disease. <i>Scientific Reports</i> , 2016 , 6, 1	4.9	12295
73	The optical visibility of graphene: interference colors of ultrathin graphite on SiO(2). <i>Nano Letters</i> , 2007 , 7, 2707-10	11.5	221
72	Probing short-range protein Brownian motion in the cytoplasm of living cells. <i>Nature Communications</i> , 2014 , 5, 5891	17.4	144
71	First-order phase transitions in a quantum Hall ferromagnet. <i>Nature</i> , 1999 , 402, 638-641	50.4	113
70	Revealing the atomic structure of the buffer layer between SiC(0001) and epitaxial graphene. <i>Carbon</i> , 2013 , 51, 249-254	10.4	112
69	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
68	Recurrent ETNK1 mutations in atypical chronic myeloid leukemia. <i>Blood</i> , 2015 , 125, 499-503	2.2	90
67	Two-Photon Lithography of 3D Nanocomposite Piezoelectric Scaffolds for Cell Stimulation. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 25574-9	9.5	85
66	The Role of Water in the Preparation and Stabilization of High-Quality Phosphorene Flakes. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500441	4.6	56
65	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
64	Cytocompatibility evaluation of gum Arabic-coated ultra-pure boron nitride nanotubes on human cells. <i>Nanomedicine</i> , 2014 , 9, 773-88	5.6	51
63	Biodegradable hollow silica nanospheres containing gold nanoparticle arrays. <i>Chemical Communications</i> , 2015 , 51, 9939-41	5.8	50
62	Immune response in peripheral axons delays disease progression in SOD1 mice. <i>Journal of Neuroinflammation</i> , 2016 , 13, 261	10.1	44
61	Rapid and catalyst-free van der Waals epitaxy of graphene on hexagonal boron nitride. <i>Carbon</i> , 2016 , 96, 497-502	10.4	36
60	Delocalized-localized transition in a semiconductor two-dimensional honeycomb lattice. <i>Applied Physics Letters</i> , 2010 , 97, 132113	3.4	34
59	Barium titanate nanoparticles and hypergravity stimulation improve differentiation of mesenchymal stem cells into osteoblasts. <i>International Journal of Nanomedicine</i> , 2015 , 10, 433-45	7.3	29
58	Scalable synthesis of WS ₂ on graphene and h-BN: an all-2D platform for light-matter transduction. <i>2D Materials</i> , 2016 , 3, 031013	5.9	28

57	Rotating-polarization CARS microscopy: combining chemical and molecular orientation sensitivity. <i>Optics Express</i> , 2012 , 20, 29369-77	3.3	26
56	Ionic Strength Responsive Sulfonated Polystyrene Opals. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 4818-4827	9.5	25
55	Gold nanoshell/polysaccharide nanofilm for controlled laser-assisted tissue thermal ablation. <i>ACS Nano</i> , 2014 , 8, 5552-63	16.7	24
54	Conduction-band offset of single InAs monolayers on GaAs. <i>Applied Physics Letters</i> , 2000 , 76, 1146-1148	3.4	24
53	Interface nano-confined acoustic waves in polymeric surface phononic crystals. <i>Applied Physics Letters</i> , 2015 , 106, 021906	3.4	23
52	Barium titanate core--gold shell nanoparticles for hyperthermia treatments. <i>International Journal of Nanomedicine</i> , 2013 , 8, 2319-31	7.3	23
51	Interaction-free, automatic, on-chip fluid routing by surface acoustic waves. <i>Lab on A Chip</i> , 2012 , 12, 2621-4	7.4	21
50	Impact of classical forces and decoherence in multiterminal Aharonov-Bohm networks. <i>Physical Review B</i> , 2009 , 79,	3.3	21
49	Age-related changes in the function and structure of the peripheral sensory pathway in mice. <i>Neurobiology of Aging</i> , 2016 , 45, 136-148	5.6	21
48	RP-CARS: label-free optical readout of the myelin intrinsic healthiness. <i>Optics Express</i> , 2014 , 22, 13733-43	4.3	20
47	High-performance planar light-emitting diodes. <i>Applied Physics Letters</i> , 2003 , 82, 636-638	3.4	20
46	Self-assembly and electron-beam-induced direct etching of suspended graphene nanostructures. <i>Journal of Applied Physics</i> , 2011 , 110, 064308	2.5	19
45	Nanostructured ultra-thin patches for ultrasound-modulated delivery of anti-restenotic drug. <i>International Journal of Nanomedicine</i> , 2016 , 11, 69-91	7.3	18
44	A surface-acoustic-wave-based cantilever bio-sensor. <i>Biosensors and Bioelectronics</i> , 2015 , 68, 570-576	11.8	18
43	WorkersTExposure 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
42	Surface acoustic wave-induced electroluminescence intensity oscillation in planar light-emitting devices. <i>Applied Physics Letters</i> , 2005 , 86, 241107	3.4	16
41	RP-CARS reveals molecular spatial order anomalies in myelin of an animal model of Krabbe disease. <i>Journal of Biophotonics</i> , 2017 , 10, 385-393	3.1	15
40	Coulomb blockade directional coupler. <i>Applied Physics Letters</i> , 2005 , 86, 052102	3.4	15

39	Demonstration of an electrostatic-shielded cantilever. <i>Applied Physics Letters</i> , 2006 , 88, 043510	3.4	14
38	Surface acoustic wave-driven planar light-emitting device. <i>Applied Physics Letters</i> , 2004 , 85, 3020-3022	3.4	14
37	Acoustoelectric luminescence from a field-effect n-i-p lateral junction. <i>Applied Physics Letters</i> , 2009 , 94, 121103	3.4	13
36	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
35	Influence of DX centers on the performance of unipolar semiconductor lasers based on GaAs-Al/sub x/Ga/sub 1-x/As. <i>IEEE Photonics Technology Letters</i> , 1999 , 11, 1090-1092	2.2	11
34	Large thermal biasing of individual gated nanostructures. <i>Nano Research</i> , 2014 , 7, 579-587	1.0	10
33	Design and optimization of lipid-modified poly(amidoamine) dendrimer coated iron oxide nanoparticles as probes for biomedical applications. <i>Nanoscale</i> , 2015 , 7, 7307-17	7.7	10
32	Synthesis and characterization of new barium titanate core-gold shell nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012 , 415, 247-254	5.1	10
31	Electronic implementations of interaction-free measurements. <i>Physical Review B</i> , 2010 , 82,	3.3	10
30	Differential near-field scanning optical microscopy with THz quantum cascade laser sources. <i>Optics Express</i> , 2009 , 17, 23785-92	3.3	10
29	GHz Electroluminescence Modulation in Nanoscale Subwavelength Emitters. <i>Nano Letters</i> , 2016 , 16, 5521-7	11.5	9
28	A large-field polarisation-resolved laser scanning microscope: applications to CARS imaging. <i>Journal of Microscopy</i> , 2015 , 260, 194-9	1.9	8
27	Coherent detection of electron dephasing. <i>Physical Review Letters</i> , 2010 , 104, 170403	7.4	8
26	Conductance and valley splitting in etched Si/SiGe one-dimensional nanostructures. <i>Physical Review B</i> , 2010 , 81,	3.3	8
25	Charge pumping in InAs nanowires by surface acoustic waves. <i>Semiconductor Science and Technology</i> , 2010 , 25, 024013	1.8	8
24	Self-consistent electron-mobility calculation in a modulation-doped two-dimensional electron gas. <i>Physical Review B</i> , 1998 , 57, 10017-10020	3.3	8
23	Metastable phase in the quantum Hall ferromagnet. <i>Solid State Communications</i> , 2003 , 127, 163-168	1.6	7
22	Large transconductance oscillations in a single-well vertical Aharonov-Bohm interferometer. <i>Physical Review B</i> , 2000 , 62, R10630-R10632	3.3	7

21	Rectification and Photoconduction Mapping of Axial Metal-Semiconductor Interfaces Embedded in GaAs Nanowires. <i>Physical Review Applied</i> , 2015 , 4,	4.3	6
20	Low field magnetotransport in strained SiBiGe cavities. <i>Physical Review B</i> , 2005 , 71,	3.3	6
19	Bilayer-induced asymmetric quantum Hall effect in epitaxial graphene. <i>Semiconductor Science and Technology</i> , 2015 , 30, 055007	1.8	5
18	Acoustic charge transport in a n-i-n three terminal device. <i>Applied Physics Letters</i> , 2006 , 88, 212101	3.4	5
17	Magnetotransport in variable-coupling one-dimensional ballistic constrictions. <i>Journal of Applied Physics</i> , 2002 , 92, 5304-5309	2.5	5
16	Femtosecond-Laser-Pulse Characterization and Optimization for CARS Microscopy. <i>PLoS ONE</i> , 2016 , 11, e0156371	3.7	5
15	Polarization-dependent laser-light structured directionality with polymer composite materials. <i>Materials Letters</i> , 2012 , 81, 232-234	3.3	4
14	Effect of scattering on coherent anti-Stokes Raman scattering (CARS) signals. <i>Optics Express</i> , 2017 , 25, 8638-8652	3.3	4
13	Cantilever deflection measurement and actuation by an interdigitated transducer. <i>Applied Physics Letters</i> , 2010 , 96, 173505	3.4	3
12	Analysis of shot-noise suppression in disordered quantum wires. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003 , 19, 107-111	3	3
11	Acoustic streaming of microparticles using graphene-based interdigital transducers. <i>Nanotechnology</i> , 2021 , 32,	3.4	3
10	Fast signal analysis in Rotating-Polarization CARS microscopy. <i>Optical Data Processing and Storage</i> , 2014 , 1,		2
9	Lasing in planar semiconductor diodes. <i>Applied Physics Letters</i> , 2011 , 99, 261110	3.4	2
8	Surface Acoustic Wave-Induced Electroluminescence Intensity Oscillation in Planar Light-Emitting Devices. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 869, 431		2
7	Hysteresis and first-order phase transition in the two-dimensional electron gas. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2000 , 6, 108-111	3	2
6	Hole-assisted Zener magnetotunneling in heterostructures. <i>Applied Physics Letters</i> , 1998 , 73, 3553-3555	3.4	2
5	Anti-bunched photons from a lateral light-emitting diode. <i>Applied Physics Letters</i> , 2011 , 99, 131103	3.4	1
4	Effects of fixatives on myelin molecular order probed with RP-CARS microscopy. <i>Applied Optics</i> , 2020 , 59, 1756-1762	1.7	1

- 3 Optical properties of boron nitride nanotubes: potential exploitation in nanomedicine **2016**, 139-147 o
- 2 Evidence of ETNK1 Somatic Variants in Atypical Chronic Myeloid Leukemia. *Blood*, **2014**, 124, 2212-2212 2.2
- 1 Biodegradable nano-architectures containing gold nanoparticles arrays. *MRS Advances*, **2016**, 1, 2173-2179