

# Vincenzo Piazza

## 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.

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	Acoustic streaming of microparticles using graphene-based interdigital transducers. <i>Nanotechnology</i> , <b>2021</b> , 32,	3.4	3
73	Effects of fixatives on myelin molecular order probed with RP-CARS microscopy. <i>Applied Optics</i> , <b>2020</b> , 59, 1756-1762	1.7	1
72	WorkersTExposure to Nano-Objects with Different Dimensionalities in R&D Laboratories: Measurement Strategy and Field Studies. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	16
71	RP-CARS reveals molecular spatial order anomalies in myelin of an animal model of Krabbe disease. <i>Journal of Biophotonics</i> , <b>2017</b> , 10, 385-393	3.1	15
70	Ionic Strength Responsive Sulfonated Polystyrene Opals. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 4818-4827	9.5	25
69	Local anodic oxidation on hydrogen-intercalated graphene layers: oxide composition analysis and role of the silicon carbide substrate. <i>Nanotechnology</i> , <b>2017</b> , 28, 105709	3.4	11
68	Effect of scattering on coherent anti-Stokes Raman scattering (CARS) signals. <i>Optics Express</i> , <b>2017</b> , 25, 8638-8652	3.3	4
67	Rapid and catalyst-free van der Waals epitaxy of graphene on hexagonal boron nitride. <i>Carbon</i> , <b>2016</b> , 96, 497-502	10.4	36
66	GHz Electroluminescence Modulation in Nanoscale Subwavelength Emitters. <i>Nano Letters</i> , <b>2016</b> , 16, 5521-7	11.5	9
65	Scalable synthesis of WS <sub>2</sub> on graphene and h-BN: an all-2D platform for light-matter transduction. <i>2D Materials</i> , <b>2016</b> , 3, 031013	5.9	28
64	Nanostructured ultra-thin patches for ultrasound-modulated delivery of anti-restenotic drug. <i>International Journal of Nanomedicine</i> , <b>2016</b> , 11, 69-91	7.3	18
63	Femtosecond-Laser-Pulse Characterization and Optimization for CARS Microscopy. <i>PLoS ONE</i> , <b>2016</b> , 11, e0156371	3.7	5
62	Optical properties of boron nitride nanotubes: potential exploitation in nanomedicine <b>2016</b> , 139-147		0
61	Immune response in peripheral axons delays disease progression in SOD1 mice. <i>Journal of Neuroinflammation</i> , <b>2016</b> , 13, 261	10.1	44
60	Ultrastructural Characterization of the Lower Motor System in a Mouse Model of Krabbe Disease. <i>Scientific Reports</i> , <b>2016</b> , 6, 1	4.9	12295
59	Biodegradable nano-architectures containing gold nanoparticles arrays. <i>MRS Advances</i> , <b>2016</b> , 1, 2173-2179		0
58	Age-related changes in the function and structure of the peripheral sensory pathway in mice. <i>Neurobiology of Aging</i> , <b>2016</b> , 45, 136-148	5.6	21

57	The Role of Water in the Preparation and Stabilization of High-Quality Phosphorene Flakes. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1500441	4.6	56
56	Bilayer-induced asymmetric quantum Hall effect in epitaxial graphene. <i>Semiconductor Science and Technology</i> , <b>2015</b> , 30, 055007	1.8	5
55	Aptamer-Mediated Codelivery of Doxorubicin and NF- $\kappa$ B Decoy Enhances Chemosensitivity of Pancreatic Tumor Cells. <i>Molecular Therapy - Nucleic Acids</i> , <b>2015</b> , 4, e235	10.7	52
54	A large-field polarisation-resolved laser scanning microscope: applications to CARS imaging. <i>Journal of Microscopy</i> , <b>2015</b> , 260, 194-9	1.9	8
53	Rectification and Photoconduction Mapping of Axial Metal-Semiconductor Interfaces Embedded in GaAs Nanowires. <i>Physical Review Applied</i> , <b>2015</b> , 4,	4.3	6
52	Recurrent ETNK1 mutations in atypical chronic myeloid leukemia. <i>Blood</i> , <b>2015</b> , 125, 499-503	2.2	90
51	Barium titanate nanoparticles and hypergravity stimulation improve differentiation of mesenchymal stem cells into osteoblasts. <i>International Journal of Nanomedicine</i> , <b>2015</b> , 10, 433-45	7.3	29
50	Biodegradable hollow silica nanospheres containing gold nanoparticle arrays. <i>Chemical Communications</i> , <b>2015</b> , 51, 9939-41	5.8	50
49	Design and optimization of lipid-modified poly(amidoamine) dendrimer coated iron oxide nanoparticles as probes for biomedical applications. <i>Nanoscale</i> , <b>2015</b> , 7, 7307-17	7.7	10
48	Two-Photon Lithography of 3D Nanocomposite Piezoelectric Scaffolds for Cell Stimulation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 25574-9	9.5	85
47	Interface nano-confined acoustic waves in polymeric surface phononic crystals. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 021906	3.4	23
46	A surface-acoustic-wave-based cantilever bio-sensor. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 68, 570-576	11.8	18
45	Gold nanoshell/polysaccharide nanofilm for controlled laser-assisted tissue thermal ablation. <i>ACS Nano</i> , <b>2014</b> , 8, 5552-63	16.7	24
44	Large thermal biasing of individual gated nanostructures. <i>Nano Research</i> , <b>2014</b> , 7, 579-587	10	10
43	Cytocompatibility evaluation of gum Arabic-coated ultra-pure boron nitride nanotubes on human cells. <i>Nanomedicine</i> , <b>2014</b> , 9, 773-88	5.6	51
42	Fast signal analysis in Rotating-Polarization CARS microscopy. <i>Optical Data Processing and Storage</i> , <b>2014</b> , 1,		2
41	RP-CARS: label-free optical readout of the myelin intrinsic healthiness. <i>Optics Express</i> , <b>2014</b> , 22, 13733-43	3.3	20
40	Probing short-range protein Brownian motion in the cytoplasm of living cells. <i>Nature Communications</i> , <b>2014</b> , 5, 5891	17.4	144

39	Evidence of ETNK1 Somatic Variants in Atypical Chronic Myeloid Leukemia. <i>Blood</i> , <b>2014</b> , 124, 2212-2212	2.2	
38	Revealing the atomic structure of the buffer layer between SiC(0001) and epitaxial graphene. <i>Carbon</i> , <b>2013</b> , 51, 249-254	10.4	112
37	Influence of Graphene Curvature on Hydrogen Adsorption: Toward Hydrogen Storage Devices. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 11506-11513	3.8	104
36	Barium titanate core--gold shell nanoparticles for hyperthermia treatments. <i>International Journal of Nanomedicine</i> , <b>2013</b> , 8, 2319-31	7.3	23
35	Polarization-dependent laser-light structured directionality with polymer composite materials. <i>Materials Letters</i> , <b>2012</b> , 81, 232-234	3.3	4
34	Interaction-free, automatic, on-chip fluid routing by surface acoustic waves. <i>Lab on A Chip</i> , <b>2012</b> , 12, 2621-4	7.4	21
33	Synthesis and characterization of new barium titanate core-gold shell nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2012</b> , 415, 247-254	5.1	10
32	Rotating-polarization CARS microscopy: combining chemical and molecular orientation sensitivity. <i>Optics Express</i> , <b>2012</b> , 20, 29369-77	3.3	26
31	Self-assembly and electron-beam-induced direct etching of suspended graphene nanostructures. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 064308	2.5	19
30	Lasing in planar semiconductor diodes. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 261110	3.4	2
29	Anti-bunched photons from a lateral light-emitting diode. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 131103	3.4	1
28	Coherent detection of electron dephasing. <i>Physical Review Letters</i> , <b>2010</b> , 104, 170403	7.4	8
27	Conductance and valley splitting in etched Si/SiGe one-dimensional nanostructures. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	8
26	Electronic implementations of interaction-free measurements. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	10
25	Delocalized-localized transition in a semiconductor two-dimensional honeycomb lattice. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 132113	3.4	34
24	Cantilever deflection measurement and actuation by an interdigitated transducer. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 173505	3.4	3
23	Charge pumping in InAs nanowires by surface acoustic waves. <i>Semiconductor Science and Technology</i> , <b>2010</b> , 25, 024013	1.8	8
22	Impact of classical forces and decoherence in multiterminal Aharonov-Bohm networks. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	21

21	Acoustoelectric luminescence from a field-effect n-i-p lateral junction. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 121103	3.4	13
20	Differential near-field scanning optical microscopy with THz quantum cascade laser sources. <i>Optics Express</i> , <b>2009</b> , 17, 23785-92	3.3	10
19	The optical visibility of graphene: interference colors of ultrathin graphite on SiO(2). <i>Nano Letters</i> , <b>2007</b> , 7, 2707-10	11.5	221
18	Acoustic charge transport in a n-i-n three terminal device. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 212101	3.4	5
17	Demonstration of an electrostatic-shielded cantilever. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 043510	3.4	14
16	Coulomb blockade directional coupler. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 052102	3.4	15
15	Surface acoustic wave-induced electroluminescence intensity oscillation in planar light-emitting devices. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 241107	3.4	16
14	Low field magnetotransport in strained SiBiGe cavities. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	6
13	Surface Acoustic Wave-Induced Electroluminescence Intensity Oscillation in Planar Light-Emitting Devices. <i>Materials Research Society Symposia Proceedings</i> , <b>2005</b> , 869, 431		2
12	Surface acoustic wave-driven planar light-emitting device. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 3020-3022	3.4	14
11	Metastable phase in the quantum Hall ferromagnet. <i>Solid State Communications</i> , <b>2003</b> , 127, 163-168	1.6	7
10	Analysis of shot-noise suppression in disordered quantum wires. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2003</b> , 19, 107-111	3	3
9	High-performance planar light-emitting diodes. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 636-638	3.4	20
8	Magnetotransport in variable-coupling one-dimensional ballistic constrictions. <i>Journal of Applied Physics</i> , <b>2002</b> , 92, 5304-5309	2.5	5
7	Hysteresis and first-order phase transition in the two-dimensional electron gas. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2000</b> , 6, 108-111	3	2
6	Conduction-band offset of single InAs monolayers on GaAs. <i>Applied Physics Letters</i> , <b>2000</b> , 76, 1146-1148	3.4	24
5	Large transconductance oscillations in a single-well vertical Aharonov-Bohm interferometer. <i>Physical Review B</i> , <b>2000</b> , 62, R10630-R10632	3.3	7
4	First-order phase transitions in a quantum Hall ferromagnet. <i>Nature</i> , <b>1999</b> , 402, 638-641	50.4	113

- 3 Influence of DX centers on the performance of unipolar semiconductor lasers based on GaAs-Al/sub  $x$ /Ga/sub  $1-x$ /As. *IEEE Photonics Technology Letters*, **1999**, 11, 1090-1092 2.2 11
- 2 Hole-assisted Zener magnetotunneling in heterostructures. *Applied Physics Letters*, **1998**, 73, 3553-3555 3.4 2
- 1 Self-consistent electron-mobility calculation in a modulation-doped two-dimensional electron gas. *Physical Review B*, **1998**, 57, 10017-10020 3.3 8