

Vincenzo Piazza

List of Publications by Year in descending order

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76
papers

23,174
citations

257101

24
h-index

85405

71
g-index

77
all docs

77
docs citations

77
times ranked

50086
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrastructural Characterization of the Lower Motor System in a Mouse Model of Krabbe Disease. Scientific Reports, 2016, 6, 1.	1.6	20,953
2	The Optical Visibility of Graphene: Interference Colors of Ultrathin Graphite on SiO ₂ . Nano Letters, 2007, 7, 2707-2710.	4.5	250
3	Probing short-range protein Brownian motion in the cytoplasm of living cells. Nature Communications, 2014, 5, 5891.	5.8	175
4	Revealing the atomic structure of the buffer layer between SiC(0 0 1) and epitaxial graphene. Carbon, 2013, 51, 249-254.	5.4	135
5	Influence of Graphene Curvature on Hydrogen Adsorption: Toward Hydrogen Storage Devices. Journal of Physical Chemistry C, 2013, 117, 11506-11513.	1.5	125
6	First-order phase transitions in a quantum Hall ferromagnet. Nature, 1999, 402, 638-641.	13.7	122
7	Recurrent ETNK1 mutations in atypical chronic myeloid leukemia. Blood, 2015, 125, 499-503.	0.6	115
8	Two-Photon Lithography of 3D Nanocomposite Piezoelectric Scaffolds for Cell Stimulation. ACS Applied Materials & Interfaces, 2015, 7, 25574-25579.	4.0	113
9	Aptamer-Mediated Codelivery of Doxorubicin and NF- κ B Decoy Enhances Chemosensitivity of Pancreatic Tumor Cells. Molecular Therapy - Nucleic Acids, 2015, 4, e235.	2.3	67
10	Immune response in peripheral axons delays disease progression in SOD1G93A mice. Journal of Neuroinflammation, 2016, 13, 261.	3.1	63
11	The Role of Water in the Preparation and Stabilization of High-Quality Phosphorene Flakes. Advanced Materials Interfaces, 2016, 3, 1500441.	1.9	62
12	Cytocompatibility evaluation of gum Arabic-coated ultra-pure boron nitride nanotubes on human cells. Nanomedicine, 2014, 9, 773-788.	1.7	61
13	Biodegradable hollow silica nanospheres containing gold nanoparticle arrays. Chemical Communications, 2015, 51, 9939-9941.	2.2	54
14	Rapid and catalyst-free van der Waals epitaxy of graphene on hexagonal boron nitride. Carbon, 2016, 96, 497-502.	5.4	43
15	Delocalized-localized transition in a semiconductor two-dimensional honeycomb lattice. Applied Physics Letters, 2010, 97, .	1.5	40
16	Scalable synthesis of WS ₂ on graphene and h-BN: an all-2D platform for light-matter transduction. 2D Materials, 2016, 3, 031013.	2.0	36
17	Ionic Strength Responsive Sulfonated Polystyrene Opals. ACS Applied Materials & Interfaces, 2017, 9, 4818-4827.	4.0	34
18	Rotating-polarization CARS microscopy: combining chemical and molecular orientation sensitivity. Optics Express, 2012, 20, 29369.	1.7	32

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19	Barium titanate nanoparticles and hypergravity stimulation improve differentiation of mesenchymal stem cells into osteoblasts. <i>International Journal of Nanomedicine</i> , 2015, 10, 433.	3.3	32
20	Gold Nanoshell/Polysaccharide Nanofilm for Controlled Laser-Assisted Tissue Thermal Ablation. <i>ACS Nano</i> , 2014, 8, 5552-5563.	7.3	30
21	Nanostructured ultra-thin patches for ultrasound-modulated delivery of anti-restenotic drug. <i>International Journal of Nanomedicine</i> , 2016, 11, 69.	3.3	30
22	Age-related changes in the function and structure of the peripheral sensory pathway in mice. <i>Neurobiology of Aging</i> , 2016, 45, 136-148.	1.5	30
23	Interaction-free, automatic, on-chip fluid routing by surface acoustic waves. <i>Lab on A Chip</i> , 2012, 12, 2621.	3.1	27
24	Interface nano-confined acoustic waves in polymeric surface phononic crystals. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	27
25	Conduction-band offset of single InAs monolayers on GaAs. <i>Applied Physics Letters</i> , 2000, 76, 1146-1148.	1.5	24
26	Barium titanate core – gold shell nanoparticles for hyperthermia treatments. <i>International Journal of Nanomedicine</i> , 2013, 8, 2319.	3.3	24
27	RP-CARS: label-free optical readout of the myelin intrinsic healthiness. <i>Optics Express</i> , 2014, 22, 13733.	1.7	24
28	Workersâ€™ 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, 349.	1.8	24
29	High-performance planar light-emitting diodes. <i>Applied Physics Letters</i> , 2003, 82, 636-638.	1.5	23
30	Impact of classical forces and decoherence in multiterminal Aharonov-Bohm networks. <i>Physical Review B</i> , 2009, 79, .	1.1	23
31	Self-assembly and electron-beam-induced direct etching of suspended graphene nanostructures. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	19
32	Polarization-dependent laser-light structured directionality with polymer composite materials. <i>Materials Letters</i> , 2012, 81, 232-234.	1.3	19
33	A surface-acoustic-wave-based cantilever bio-sensor. <i>Biosensors and Bioelectronics</i> , 2015, 68, 570-576.	5.3	19
34	Surface acoustic wave-induced electroluminescence intensity oscillation in planar light-emitting devices. <i>Applied Physics Letters</i> , 2005, 86, 241107.	1.5	17
35	RPâ€™CARS reveals molecular spatial order anomalies in myelin of an animal model of Krabbe disease. <i>Journal of Biophotonics</i> , 2017, 10, 385-393.	1.1	17
36	Surface acoustic wave-driven planar light-emitting device. <i>Applied Physics Letters</i> , 2004, 85, 3020-3022.	1.5	16

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37	Coulomb blockade directional coupler. <i>Applied Physics Letters</i> , 2005, 86, 052102.	1.5	16
38	Acoustoelectric luminescence from a field-effect n-i-p lateral junction. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	16
39	Demonstration of an electrostatic-shielded cantilever. <i>Applied Physics Letters</i> , 2006, 88, 043510.	1.5	15
40	Differential Near-Field Scanning Optical Microscopy with THz quantum cascade laser sources. <i>Optics Express</i> , 2009, 17, 23785.	1.7	14
41	Electronic implementations of interaction-free measurements. <i>Physical Review B</i> , 2010, 82, .	1.1	13
42	Local anodic oxidation on hydrogen-intercalated graphene layers: oxide composition analysis and role of the silicon carbide substrate. <i>Nanotechnology</i> , 2017, 28, 105709.	1.3	12
43	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.	1.3	11
44	Large thermal biasing of individual gated nanostructures. <i>Nano Research</i> , 2014, 7, 579-587.	5.8	11
45	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.	2.3	10
46	Design and optimization of lipid-modified poly(amidoamine) dendrimer coated iron oxide nanoparticles as probes for biomedical applications. <i>Nanoscale</i> , 2015, 7, 7307-7317.	2.8	10
47	Coherent Detection of Electron Dephasing. <i>Physical Review Letters</i> , 2010, 104, 170403.	2.9	9
48	A large-field polarisation-resolved laser scanning microscope: applications to CARS imaging. <i>Journal of Microscopy</i> , 2015, 260, 194-199.	0.8	9
49	GHz Electroluminescence Modulation in Nanoscale Subwavelength Emitters. <i>Nano Letters</i> , 2016, 16, 5521-5527.	4.5	9
50	Self-consistent electron-mobility calculation in a modulation-doped two-dimensional electron gas. <i>Physical Review B</i> , 1998, 57, 10017-10020.	1.1	8
51	Conductance and valley splitting in etched Si/SiGe one-dimensional nanostructures. <i>Physical Review B</i> , 2010, 81, .	1.1	8
52	Charge pumping in InAs nanowires by surface acoustic waves. <i>Semiconductor Science and Technology</i> , 2010, 25, 024013.	1.0	8
53	Rectification and Photoconduction Mapping of Axial Metal-Semiconductor Interfaces Embedded in GaAs Nanowires. <i>Physical Review Applied</i> , 2015, 4, .	1.5	8
54	Large transconductance oscillations in a single-well vertical Aharonov-Bohm interferometer. <i>Physical Review B</i> , 2000, 62, R10630-R10632.	1.1	7

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55	Metastable phase in the quantum Hall ferromagnet. Solid State Communications, 2003, 127, 163-168.	0.9	7
56	Low field magnetotransport in strained Si ⁺ -Si ⁻ cavities. Physical Review B, 2005, 71, .	1.1	7
57	Bi-layer-induced asymmetric quantum Hall effect in epitaxial graphene. Semiconductor Science and Technology, 2015, 30, 055007.	1.0	7
58	Magnetotransport in variable-coupling one-dimensional ballistic constrictions. Journal of Applied Physics, 2002, 92, 5304-5309.	1.1	6
59	Acoustic streaming of microparticles using graphene-based interdigital transducers. Nanotechnology, 2021, 32, 375503.	1.3	6
60	Femtosecond-Laser-Pulse Characterization and Optimization for CARS Microscopy. PLoS ONE, 2016, 11, e0156371.	1.1	6
61	Acoustic charge transport in a n-i-n three terminal device. Applied Physics Letters, 2006, 88, 212101.	1.5	5
62	Effect of scattering on coherent anti-Stokes Raman scattering (CARS) signals. Optics Express, 2017, 25, 8638.	1.7	5
63	Analysis of shot-noise suppression in disordered quantum wires. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 19, 107-111.	1.3	4
64	Effects of fixatives on myelin molecular order probed with RP-CARS microscopy. Applied Optics, 2020, 59, 1756.	0.9	4
65	Cantilever deflection measurement and actuation by an interdigitated transducer. Applied Physics Letters, 2010, 96, .	1.5	3
66	Lasing in planar semiconductor diodes. Applied Physics Letters, 2011, 99, 261110.	1.5	3
67	Hole-assisted Zener magnetotunneling in heterostructures. Applied Physics Letters, 1998, 73, 3553-3555.	1.5	2
68	Hysteresis and first-order phase transition in the two-dimensional electron gas. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 6, 108-111.	1.3	2
69	Surface Acoustic Wave-Induced Electroluminescence Intensity Oscillation in Planar Light-Emitting Devices. Materials Research Society Symposia Proceedings, 2005, 869, 431.	0.1	2
70	Anti-bunched photons from a lateral light-emitting diode. Applied Physics Letters, 2011, 99, 131103.	1.5	2
71	Fast signal analysis in Rotating-Polarization CARS microscopy. Optical Data Processing and Storage, 2014, 1, .	3.3	2
72	Optical properties of boron nitride nanotubes: potential exploitation in nanomedicine. , 2016, , 139-147.		2

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73	THz differential near-field scanning optical microscopy for biological applications. , 2009, , .		0
74	Biodegradable nano-architectures containing gold nanoparticles arrays. MRS Advances, 2016, 1, 2173-2179.	0.5	0
75	Acoustic charge transport in a n-i-n three terminal device. AIP Conference Proceedings, 2007, , .	0.3	0
76	Evidence of ETNK1 Somatic Variants in Atypical Chronic Myeloid Leukemia. Blood, 2014, 124, 2212-2212.	0.6	0