

Vincenzo Piazza

List of Publications by Year in descending order

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Version: 2024-02-01

76
papers

23,174
citations

257101

24
h-index

85405

71
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77
all docs

77
docs citations

77
times ranked

50086
citing authors

#	ARTICLE	IF	CITATIONS
1	Acoustic streaming of microparticles using graphene-based interdigital transducers. <i>Nanotechnology</i> , 2021, 32, 375503.	1.3	6
2	Effects of fixatives on myelin molecular order probed with RP-CARS microscopy. <i>Applied Optics</i> , 2020, 59, 1756.	0.9	4
3	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
4	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.	1.1	17
5	Ionic Strength Responsive Sulfonated Polystyrene Opals. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 4818-4827.	4.0	34
6	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
7	Effect of scattering on coherent anti-Stokes Raman scattering (CARS) signals. <i>Optics Express</i> , 2017, 25, 8638.	1.7	5
8	Nanostructured ultra-thin patches for ultrasound-modulated delivery of anti-restenotic drug. <i>International Journal of Nanomedicine</i> , 2016, 11, 69.	3.3	30
9	Optical properties of boron nitride nanotubes: potential exploitation in nanomedicine. , 2016, , 139-147.		2
10	Immune response in peripheral axons delays disease progression in SOD1G93A mice. <i>Journal of Neuroinflammation</i> , 2016, 13, 261.	3.1	63
11	Ultrastructural Characterization of the Lower Motor System in a Mouse Model of Krabbe Disease. <i>Scientific Reports</i> , 2016, 6, 1.	1.6	20,953
12	Biodegradable nano-architectures containing gold nanoparticles arrays. <i>MRS Advances</i> , 2016, 1, 2173-2179.	0.5	0
13	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
14	The Role of Water in the Preparation and Stabilization of High-Quality Phosphorene Flakes. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500441.	1.9	62
15	GHz Electroluminescence Modulation in Nanoscale Subwavelength Emitters. <i>Nano Letters</i> , 2016, 16, 5521-5527.	4.5	9
16	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.	2.0	36
17	Rapid and catalyst-free van der Waals epitaxy of graphene on hexagonal boron nitride. <i>Carbon</i> , 2016, 96, 497-502.	5.4	43
18	Femtosecond-Laser-Pulse Characterization and Optimization for CARS Microscopy. <i>PLoS ONE</i> , 2016, 11, e0156371.	1.1	6

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19	A large-field polarisation-resolved laser scanning microscope: applications to CARS imaging. <i>Journal of Microscopy</i> , 2015, 260, 194-199.	0.8	9
20	Rectification and Photoconduction Mapping of Axial Metal-Semiconductor Interfaces Embedded in GaAs Nanowires. <i>Physical Review Applied</i> , 2015, 4, .	1.5	8
21	Recurrent ETNK1 mutations in atypical chronic myeloid leukemia. <i>Blood</i> , 2015, 125, 499-503.	0.6	115
22	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
23	Biodegradable hollow silica nanospheres containing gold nanoparticle arrays. <i>Chemical Communications</i> , 2015, 51, 9939-9941.	2.2	54
24	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
25	Two-Photon Lithography of 3D Nanocomposite Piezoelectric Scaffolds for Cell Stimulation. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 25574-25579.	4.0	113
26	Interface nano-confined acoustic waves in polymeric surface phononic crystals. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	27
27	A surface-acoustic-wave-based cantilever bio-sensor. <i>Biosensors and Bioelectronics</i> , 2015, 68, 570-576.	5.3	19
28	Bilayer-induced asymmetric quantum Hall effect in epitaxial graphene. <i>Semiconductor Science and Technology</i> , 2015, 30, 055007.	1.0	7
29	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.	2.3	67
30	RP-CARS: label-free optical readout of the myelin intrinsic healthiness. <i>Optics Express</i> , 2014, 22, 13733.	1.7	24
31	Probing short-range protein Brownian motion in the cytoplasm of living cells. <i>Nature Communications</i> , 2014, 5, 5891.	5.8	175
32	Gold Nanoshell/Polysaccharide Nanofilm for Controlled Laser-Assisted Tissue Thermal Ablation. <i>ACS Nano</i> , 2014, 8, 5552-5563.	7.3	30
33	Large thermal biasing of individual gated nanostructures. <i>Nano Research</i> , 2014, 7, 579-587.	5.8	11
34	Cytocompatibility evaluation of gum Arabic-coated ultra-pure boron nitride nanotubes on human cells. <i>Nanomedicine</i> , 2014, 9, 773-788.	1.7	61
35	Fast signal analysis in Rotating-Polarization CARS microscopy. <i>Optical Data Processing and Storage</i> , 2014, 1, .	3.3	2
36	Evidence of ETNK1 Somatic Variants in Atypical Chronic Myeloid Leukemia. <i>Blood</i> , 2014, 124, 2212-2212.	0.6	0

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37	Revealing the atomic structure of the buffer layer between SiC(0 0 1) and epitaxial graphene. Carbon, 2013, 51, 249-254.	5.4	135
38	Influence of Graphene Curvature on Hydrogen Adsorption: Toward Hydrogen Storage Devices. Journal of Physical Chemistry C, 2013, 117, 11506-11513.	1.5	125
39	Barium titanate core – gold shell nanoparticles for hyperthermia treatments. International Journal of Nanomedicine, 2013, 8, 2319.	3.3	24
40	Rotating-polarization CARS microscopy: combining chemical and molecular orientation sensitivity. Optics Express, 2012, 20, 29369.	1.7	32
41	Interaction-free, automatic, on-chip fluid routing by surface acoustic waves. Lab on A Chip, 2012, 12, 2621.	3.1	27
42	Synthesis and characterization of new barium titanate core"gold shell nanoparticles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 415, 247-254.	2.3	10
43	Polarization-dependent laser-light structured directionality with polymer composite materials. Materials Letters, 2012, 81, 232-234.	1.3	19
44	Self-assembly and electron-beam-induced direct etching of suspended graphene nanostructures. Journal of Applied Physics, 2011, 110, .	1.1	19
45	Lasing in planar semiconductor diodes. Applied Physics Letters, 2011, 99, 261110.	1.5	3
46	Anti-bunched photons from a lateral light-emitting diode. Applied Physics Letters, 2011, 99, 131103.	1.5	2
47	Coherent Detection of Electron Dephasing. Physical Review Letters, 2010, 104, 170403.	2.9	9
48	Conductance and valley splitting in etched Si/SiGe one-dimensional nanostructures. Physical Review B, 2010, 81, .	1.1	8
49	Electronic implementations of interaction-free measurements. Physical Review B, 2010, 82, .	1.1	13
50	Delocalized-localized transition in a semiconductor two-dimensional honeycomb lattice. Applied Physics Letters, 2010, 97, .	1.5	40
51	Cantilever deflection measurement and actuation by an interdigitated transducer. Applied Physics Letters, 2010, 96, .	1.5	3
52	Charge pumping in InAs nanowires by surface acoustic waves. Semiconductor Science and Technology, 2010, 25, 024013.	1.0	8
53	Impact of classical forces and decoherence in multiterminal Aharonov-Bohm networks. Physical Review B, 2009, 79, .	1.1	23
54	Acoustoelectric luminescence from a field-effect n-i-p lateral junction. Applied Physics Letters, 2009, 94, .	1.5	16

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55	Differential Near-Field Scanning Optical Microscopy with THz quantum cascade laser sources. Optics Express, 2009, 17, 23785.	1.7	14
56	THz differential near-field scanning optical microscopy for biological applications. , 2009, , .		0
57	The Optical Visibility of Graphene: Interference Colors of Ultrathin Graphite on SiO ₂ . Nano Letters, 2007, 7, 2707-2710.	4.5	250
58	Acoustic charge transport in a n-i-n three terminal device. AIP Conference Proceedings, 2007, , .	0.3	0
59	Demonstration of an electrostatic-shielded cantilever. Applied Physics Letters, 2006, 88, 043510.	1.5	15
60	Acoustic charge transport in a n-i-n three terminal device. Applied Physics Letters, 2006, 88, 212101.	1.5	5
61	Coulomb blockade directional coupler. Applied Physics Letters, 2005, 86, 052102.	1.5	16
62	Surface acoustic wave-induced electroluminescence intensity oscillation in planar light-emitting devices. Applied Physics Letters, 2005, 86, 241107.	1.5	17
63	Low field magnetotransport in strained Si ⁺ SiGe cavities. Physical Review B, 2005, 71, .	1.1	7
64	Surface Acoustic Wave-Induced Electroluminescence Intensity Oscillation in Planar Light-Emitting Devices. Materials Research Society Symposia Proceedings, 2005, 869, 431.	0.1	2
65	Surface acoustic wave-driven planar light-emitting device. Applied Physics Letters, 2004, 85, 3020-3022.	1.5	16
66	Metastable phase in the quantum Hall ferromagnet. Solid State Communications, 2003, 127, 163-168.	0.9	7
67	Analysis of shot-noise suppression in disordered quantum wires. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 19, 107-111.	1.3	4
68	High-performance planar light-emitting diodes. Applied Physics Letters, 2003, 82, 636-638.	1.5	23
69	Magnetotransport in variable-coupling one-dimensional ballistic constrictions. Journal of Applied Physics, 2002, 92, 5304-5309.	1.1	6
70	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
71	Conduction-band offset of single InAs monolayers on GaAs. Applied Physics Letters, 2000, 76, 1146-1148.	1.5	24
72	Large transconductance oscillations in a single-well vertical Aharonov-Bohm interferometer. Physical Review B, 2000, 62, R10630-R10632.	1.1	7

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73	First-order phase transitions in a quantum Hall ferromagnet. <i>Nature</i> , 1999, 402, 638-641.	13.7	122
74	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
75	Hole-assisted Zener magnetotunneling in heterostructures. <i>Applied Physics Letters</i> , 1998, 73, 3553-3555.	1.5	2
76	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