

Valentina Cauda

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.

126
papers

5,228
citations

39
h-index

69
g-index

135
ext. papers

6,144
ext. citations

6.3
avg, IF

6.02
L-index

#	Paper	IF	Citations
126	In Vitro and Ex Vivo Investigation of the Effects of Polydopamine Nanoparticle Size on Their Antioxidant and Photothermal Properties: Implications for Biomedical Applications. <i>ACS Applied Nano Materials</i> , 2022 , 5, 1702-1713	5.6	5
125	Insight into Sonoluminescence Augmented by ZnO-Functionalized Nanoparticles.. <i>ACS Omega</i> , 2022 , 7, 6591-6600	3.9	0
124	Nanotechnological engineering of extracellular vesicles for the development of actively targeted hybrid nanodevices.. <i>Cell and Bioscience</i> , 2022 , 12, 61	9.8	1
123	Extracellular Vesicles Tropism: A Comparative Study between Passive Innate Tropism and the Active Engineered Targeting Capability of Lymphocyte-Derived EVs. <i>Membranes</i> , 2021 , 11,	3.8	4
122	Iron-Doped ZnO Nanoparticles as Multifunctional Nanoplatforms for Theranostics. <i>Nanomaterials</i> , 2021 , 11,	5.4	5
121	Ultrasound Triggered ZnO-Based Devices for Tunable and Multifaceted Biomedical Applications. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2101021	4.6	1
120	Synthesis and characterization of ordered mesoporous silicas for the immobilization of formate dehydrogenase (FDH). <i>International Journal of Biological Macromolecules</i> , 2021 , 177, 261-270	7.9	3
119	A deep-learning model to continuously predict severe acute kidney injury based on urine output changes in critically ill patients. <i>Journal of Nephrology</i> , 2021 , 34, 1875-1886	4.8	2
118	Extracellular Vesicles and Their Current Role in Cancer Immunotherapy. <i>Cancers</i> , 2021 , 13,	6.6	4
117	Enhancing the preservation of liposomes: The role of cryoprotectants, lipid formulations and freezing approaches. <i>Cryobiology</i> , 2021 , 98, 46-56	2.7	9
116	ZnO Materials as Effective Anodes for the Photoelectrochemical Regeneration of Enzymatically Active NAD. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 10719-10727	9.5	2
115	Smart Shockwave Responsive Titania-Based Nanoparticles for Cancer Treatment. <i>Pharmaceutics</i> , 2021 , 13,	6.4	2
114	Biomimetic mesoporous vectors enabling the efficient inhibition of wild-type isocitrate dehydrogenase in multiple myeloma cells. <i>Microporous and Mesoporous Materials</i> , 2021 , 325, 111320	5.3	0
113	Biodegradation and Antimicrobial Properties of Zinc Oxide Polymer Composite Materials for Urinary Stent Applications. <i>Coatings</i> , 2020 , 10, 1002	2.9	4
112	The urgent need for integrated science to fight COVID-19 pandemic and beyond. <i>Journal of Translational Medicine</i> , 2020 , 18, 205	8.5	92
111	Piezo- and Photocatalytic Activity of Ferroelectric ZnO:Sb Thin Films for the Efficient Degradation of Rhodamine-B Dye Pollutant. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 25798-25808	9.5	27
110	Multimodal Decorations of Mesoporous Silica Nanoparticles for Improved Cancer Therapy. <i>Pharmaceutics</i> , 2020 , 12,	6.4	22

109	Metal-Organic Framework Nanoparticles Induce Pyroptosis in Cells Controlled by the Extracellular pH. <i>Advanced Materials</i> , 2020 , 32, e1907267	24	50
108	Facile Chemical Synthesis of Doped ZnO Nanocrystals Exploiting Oleic Acid. <i>Nanomaterials</i> , 2020 , 10,	5.4	6
107	Zinc Oxide Nanocrystals and High-Energy Shock Waves: A New Synergy for the Treatment of Cancer Cells. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 577	5.8	16
106	Leveraging re-chargeable nanobubbles on amine-functionalized ZnO nanocrystals for sustained ultrasound cavitation towards echographic imaging. <i>Ultrasonics Sonochemistry</i> , 2020 , 67, 105132	8.9	10
105	The investigation of the parameters affecting the ZnO nanoparticle cytotoxicity behaviour: a tutorial review. <i>Biomaterials Science</i> , 2020 , 8, 6157-6174	7.4	12
104	Polydopamine Nanoparticles as an Organic and Biodegradable Multitasking Tool for Neuroprotection and Remote Neuronal Stimulation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 35782-35798	9.5	20
103	Doped Zinc Oxide Nanoparticles: Synthesis, Characterization and Potential Use in Nanomedicine. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 5194	2.6	36
102	EVs and Bioengineering: From Cellular Products to Engineered Nanomachines. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	17
101	Biodegradable and Drug-Eluting Inorganic Composites Based on Mesoporous Zinc Oxide for Urinary Stent Applications. <i>Materials</i> , 2020 , 13,	3.5	6
100	Biomimetic Amorphous Titania Nanoparticles as Ultrasound Responding Agents to Improve Cavitation and ROS Production for Sonodynamic Therapy. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 8479	2.6	6
99	Remotely Activated Nanoparticles for Anticancer Therapy. <i>Nano-Micro Letters</i> , 2020 , 13, 11	19.5	11
98	Zinc oxide nanocrystals as a nanoantibiotic and osteoinductive agent. <i>RSC Advances</i> , 2019 , 9, 11312-11321	3.7	24
97	Improving dispersal of therapeutic nanoparticles in the human body. <i>Nanomedicine</i> , 2019 , 14, 797-801	5.6	17
96	Biodegradable polymer nanocomposites for tissue engineering: synthetic strategies and related applications 2019 , 157-198		1
95	Nanoparticles for hematologic diseases detection and treatment. <i>Hematology & Medical Oncology</i> , 2019 , 4, 1000183	1	1
94	A Microwave-Assisted Synthesis of Zinc Oxide Nanocrystals Finely Tuned for Biological Applications. <i>Nanomaterials</i> , 2019 , 9,	5.4	44
93	The Synergistic Effect of Nanocrystals Combined With Ultrasound in the Generation of Reactive Oxygen Species for Biomedical Applications. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019 , 7, 374	5.8	13
92	ZnO thick films for NO ₂ detection: effect of different nanostructures on the sensors' performances. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 20958-20969	2.1	5

91	ZnO nanocrystals shuttled by extracellular vesicles as effective Trojan nano-horses against cancer cells. <i>Nanomedicine</i> , 2019 , 14, 2815-2833	5.6	27
90	Engineered Extracellular Vesicles as a Reliable Tool in Cancer Nanomedicine. <i>Cancers</i> , 2019 , 11,	6.6	36
89	Design, Fabrication, and In Vitro Evaluation of Nanoceria-Loaded Nanostructured Lipid Carriers for the Treatment of Neurological Diseases. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 670-682	5.5	19
88	Sonophotocatalytic degradation mechanisms of Rhodamine B dye via radicals generation by micro- and nano-particles of ZnO. <i>Applied Catalysis B: Environmental</i> , 2019 , 243, 629-640	21.8	207
87	Graphene Oxide Finely Tunes the Bioactivity and Drug Delivery of Mesoporous ZnO Scaffolds. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 449-456	9.5	26
86	Nanoparticle-assisted ultrasound: A special focus on sonodynamic therapy against cancer. <i>Chemical Engineering Journal</i> , 2018 , 340, 155-172	14.7	156
85	Porous Zinc Oxide Thin Films: Synthesis Approaches and Applications. <i>Coatings</i> , 2018 , 8, 67	2.9	37
84	Lipid-Coated Zinc Oxide Nanoparticles as Innovative ROS-Generators for Photodynamic Therapy in Cancer Cells. <i>Nanomaterials</i> , 2018 , 8,	5.4	65
83	Gentamicin-Releasing Mesoporous ZnO Structures. <i>Materials</i> , 2018 , 11,	3.5	24
82	Preparation of bio-functional textiles by surface functionalization of cellulose fabrics with caffeine loaded nanoparticles.. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 460, 012044	0.4	8
81	Porous ZnO/2-Hydroxyethyl Methacrylate Eluting Coatings for Ureteral Stent Applications. <i>Coatings</i> , 2018 , 8, 376	2.9	11
80	Zinc Oxide Nanostructures in Biomedicine 2018 , 171-187		15
79	Functionalized ZnO nanowires for microcantilever biosensors with enhanced binding capability. <i>Analytical and Bioanalytical Chemistry</i> , 2017 , 409, 2615-2625	4.4	11
78	Comparative spectroscopic approach for the dye loading optimization of sheet-like ZnO photoanodes for dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017 , 337, 192-197	4.7	4
77	Surface Engineering of Nanostructured ZnO Surfaces. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1600758	4.6	39
76	Exosome-Coated Metal-Organic Framework Nanoparticles: An Efficient Drug Delivery Platform. <i>Chemistry of Materials</i> , 2017 , 29, 8042-8046	9.6	134
75	Enhanced biostability and cellular uptake of zinc oxide nanocrystals shielded with a phospholipid bilayer. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 8799-8813	7.3	49
74	Ureteral double-J stents performances toward encrustation after long-term indwelling in a dynamic in vitro model. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017 , 105, 2244-2253	3.5	12

73	ZnO Nanostructures for Tissue Engineering Applications. <i>Nanomaterials</i> , 2017 , 7,	5.4	89
72	One-Dimensional ZnO/Gold Junction for Simultaneous and Versatile Multisensing Measurements. <i>Scientific Reports</i> , 2016 , 6, 29763	4.9	69
71	How Micropatterning and Surface Functionalization Affect the Wetting Behavior of ZnO Nanostructured Surfaces. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600110	4.6	18
70	Aerosol-assisted synthesis of mesoporous aluminosilicate microspheres: the effect of the aluminum precursor. <i>New Journal of Chemistry</i> , 2016 , 40, 4420-4427	3.6	6
69	An electronic platform for real-time detection of bovine serum albumin by means of amine-functionalized zinc oxide microwires. <i>RSC Advances</i> , 2016 , 6, 891-897	3.7	19
68	A porous nanobranched structure: an effective way to improve piezoelectricity in sputtered ZnO thin films. <i>RSC Advances</i> , 2016 , 6, 76996-77004	3.7	19
67	Nanostructured piezoelectric polymers. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	41
66	A Low-Power 0.13- μm CMOS IC for ZnO-Nanowire Assembly and Nanowire-Based UV Sensor Interface. <i>IEEE Sensors Journal</i> , 2015 , 15, 4203-4212	4	8
65	Flexible piezoelectric energy nanogenerator based on ZnO nanotubes hosted in a polycarbonate membrane. <i>Nano Energy</i> , 2015 , 13, 474-481	17.1	66
64	Ultraviolet mem-sensors: flexible anisotropic composites featuring giant photocurrent enhancement. <i>Nano Research</i> , 2015 , 8, 1956-1963	10	22
63	Evaluation of the piezoelectric properties and voltage generation of flexible zinc oxide thin films. <i>Nanotechnology</i> , 2015 , 26, 215704	3.4	45
62	Leveraging ZnO morphologies in piezoelectric composites for mechanical energy harvesting. <i>Nano Energy</i> , 2015 , 18, 212-221	17.1	29
61	Surface area enhancement by mesoporous silica deposition on microcantilever sensors for small molecule detection. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 12507-12513	7.1	13
60	Nanobranched ZnO Structure: p-Type Doping Induces Piezoelectric Voltage Generation and Ferroelectric-Photovoltaic Effect. <i>Advanced Materials</i> , 2015 , 27, 4218-23	24	52
59	Interface of a single ZnO-nanowire assembled onto custom-fabricated nanogap device for UV sensing applications 2015 ,		1
58	Comparison of photocatalytic and transport properties of TiO ₂ and ZnO nanostructures for solar-driven water splitting. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 7775-86	3.6	190
57	Electrophoretic deposition of mesoporous bioactive glass on glass-ceramic foam scaffolds for bone tissue engineering. <i>Journal of Materials Science: Materials in Medicine</i> , 2015 , 26, 5346	4.5	48
56	pH-triggered conduction of amine-functionalized single ZnO wire integrated on a customized nanogap electronic platform. <i>Nanoscale Research Letters</i> , 2014 , 9, 53	5	18

55	Comprehensive study of the templating effect on the ZnO nanostructure formation within porous hard membranes. <i>New Journal of Chemistry</i> , 2014 , 38, 2058	3.6	26
54	Development of Hybrid Piezoelectric Materials for Tactile Sensing. <i>Key Engineering Materials</i> , 2014 , 605, 263-266	0.4	3
53	Optimization of 1D ZnO@TiO ₂ core-shell nanostructures for enhanced photoelectrochemical water splitting under solar light illumination. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 12153-67	9.5	175
52	Shape-Controlled Synthesis of Silver Nature-Like Spiky Particles for Piezoresistive Sensor Applications. <i>European Journal of Inorganic Chemistry</i> , 2014 , 2014, 2711-2719	2.3	1
51	Piezoresistive flexible composite for robotic tactile applications. <i>Sensors and Actuators A: Physical</i> , 2014 , 208, 1-9	3.9	71
50	Streamlining of commercial Berl saddles: A new material to improve the performance of microbial fuel cells. <i>Energy</i> , 2014 , 71, 615-623	7.9	29
49	Wetting Behavior of Hierarchical Oxide Nanostructures: TiO ₂ Nanotubes from Anodic Oxidation Decorated with ZnO Nanostructures. <i>Journal of the Electrochemical Society</i> , 2014 , 161, D484-D488	3.9	22
48	Stretchable and Wearable Piezoresistive Insole for Continuous Pressure Monitoring. <i>Key Engineering Materials</i> , 2014 , 605, 474-477	0.4	5
47	Nanostructured ZnO Materials: Synthesis, Properties and Applications 2014 , 137-177		7
46	Properties of ZnO nanorods grown by hydrothermal synthesis on conductive layers. <i>Crystal Research and Technology</i> , 2014 , 49, 599-605	1.3	14
45	Ultralong and Mesoporous ZnO and Al ₂ O ₃ Oriented Nanowires Obtained by Template-assisted Hydrothermal Approach. <i>Journal of Materials Science and Technology</i> , 2014 , 30, 1167-1173	9.1	17
44	Nanosized Gold and Silver Spherical, Spiky, and Multi-branched Particles 2014 , 179-212		3
43	Flexible tactile sensing based on piezoresistive composites: a review. <i>Sensors</i> , 2014 , 14, 5296-332	3.8	254
42	Multi-functional energy conversion and storage electrodes using flower-like Zinc oxide nanostructures. <i>Energy</i> , 2014 , 65, 639-646	7.9	76
41	Fast and low-cost synthesis of 1D ZnO@TiO ₂ core-shell nanoarrays: Characterization and enhanced photo-electrochemical performance for water splitting. <i>Journal of Alloys and Compounds</i> , 2014 , 615, S530-S537	5.7	60
40	Effect of the fabrication method on the functional properties of BaTiO ₃ : PVDF nanocomposites. <i>Journal of Materials Science</i> , 2013 , 48, 6943-6951	4.3	32
39	Nanoconfinement: an effective way to enhance PVDF piezoelectric properties. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 6430-7	9.5	117
38	Comparison between ZnO nanowires grown by chemical vapor deposition and hydrothermal synthesis. <i>Applied Physics A: Materials Science and Processing</i> , 2013 , 113, 623-632	2.6	71

37	A chemometric approach for the sensitization procedure of ZnO flowerlike microstructures for dye-sensitized solar cells. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 11288-95	9.5	71
36	A low-power Read-Out Circuit and low-cost assembly of nanosensors onto a 0.13 μm CMOS Micro-for-Nano chip 2013 ,		3
35	Bis-Ferrocene Molecular QCA Wire: Ab Initio Simulations of Fabrication Driven Fault Tolerance. <i>IEEE Nanotechnology Magazine</i> , 2013 , 12, 498-507	2.6	54
34	Different Scale Confinements of PVDF-TrFE as Functional Material of Piezoelectric Devices. <i>IEEE Sensors Journal</i> , 2013 , 13, 2237-2244	4	20
33	Length-dependent charge generation from vertical arrays of high-aspect-ratio ZnO nanowires. <i>Chemistry - A European Journal</i> , 2013 , 19, 14665-74	4.8	61
32	Wearable and flexible pedobarographic insole for continuous pressure monitoring 2013 ,		8
31	Functionalized single ZnO-metal junction as a pH sensor 2013 ,		3
30	Wettability Control on ZnO Nanowires Driven by Seed Layer Properties. <i>European Journal of Inorganic Chemistry</i> , 2013 , 2013, 2520-2527	2.3	50
29	Discrete tomography of demanding samples based on a modified SIRT algorithm. <i>Ultramicroscopy</i> , 2012 , 115, 41-9	3.1	25
28	Heparin-coated colloidal mesoporous silica nanoparticles efficiently bind to antithrombin as an anticoagulant drug-delivery system. <i>Chemistry - A European Journal</i> , 2012 , 18, 428-32	4.8	37
27	A nanogap array platform for testing the optically modulated conduction of gold-thiophene-gold junctions for molecular optoelectronics. <i>RSC Advances</i> , 2012 , 2, 10985	3.7	11
26	Confinement in Oriented Mesopores Induces Piezoelectric Behavior of Polymeric Nanowires. <i>Chemistry of Materials</i> , 2012 , 24, 4215-4221	9.6	55
25	Evaluation of different conductive nanostructured particles as filler in smart piezoresistive composites. <i>Nanoscale Research Letters</i> , 2012 , 7, 327	5	24
24	Direct visualization of dye and oligonucleotide diffusion in silica filaments with collinear mesopores. <i>Nano Letters</i> , 2012 , 12, 1354-61	11.5	23
23	Synthesis and Characterization of Gold Nanostars as Filler of Tunneling Conductive Polymer Composites. <i>European Journal of Inorganic Chemistry</i> , 2012 , 2012, 2669-2673	2.3	34
22	Cascaded photoinduced drug delivery to cells from multifunctional core-shell mesoporous silica. <i>Advanced Healthcare Materials</i> , 2012 , 1, 316-20	10.1	35
21	Photo-induced Drug Delivery: Cascaded Photoinduced Drug Delivery to Cells from Multifunctional Core-shell Mesoporous Silica (Adv. Healthcare Mater. 3/2012). <i>Advanced Healthcare Materials</i> , 2012 , 1, 360-360	10.1	
20	Different scale confinements of PVDF-TrFE as functional material of piezoelectric sensor devices 2012 ,		1

19	"Liquid-phase calcination" of colloidal mesoporous silica nanoparticles in high-boiling solvents. <i>Journal of the American Chemical Society</i> , 2011 , 133, 6484-6	16.4	26
18	All-inorganic core-shell silica-titania mesoporous colloidal nanoparticles showing orthogonal functionality. <i>Journal of Materials Chemistry</i> , 2011 , 21, 13817		4
17	Impact of different PEGylation patterns on the long-term bio-stability of colloidal mesoporous silica nanoparticles. <i>Journal of Materials Chemistry</i> , 2010 , 20, 8693		196
16	Colchicine-loaded lipid bilayer-coated 50 nm mesoporous nanoparticles efficiently induce microtubule depolymerization upon cell uptake. <i>Nano Letters</i> , 2010 , 10, 2484-92	11.5	134
15	Role of endosomal escape for disulfide-based drug delivery from colloidal mesoporous silica evaluated by live-cell imaging. <i>Nano Letters</i> , 2010 , 10, 3684-91	11.5	143
14	Controlling the delivery kinetics from colloidal mesoporous silica nanoparticles with pH-sensitive gates. <i>Journal of Materials Chemistry</i> , 2010 , 20, 4305		67
13	Bio-degradation study of colloidal mesoporous silica nanoparticles: Effect of surface functionalization with organo-silanes and poly(ethylene glycol). <i>Microporous and Mesoporous Materials</i> , 2010 , 132, 60-71	5.3	182
12	Ni-Cr-Co alloy ureteral stent: scanning electron microscopy and elemental analysis characterization after long-term indwelling. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2010 , 94, 501-7	3.5	5
11	Tuning drug uptake and release rates through different morphologies and pore diameters of confined mesoporous silica. <i>Microporous and Mesoporous Materials</i> , 2009 , 118, 435-442	5.3	77
10	Multiple core-shell functionalized colloidal mesoporous silica nanoparticles. <i>Journal of the American Chemical Society</i> , 2009 , 131, 11361-70	16.4	207
9	Coated ureteral stents 2009 , 134-156		1
8	Large antibiotic molecule diffusion in confined mesoporous silica with controlled morphology. <i>Journal of Materials Chemistry</i> , 2008 , 18, 5888		45
7	Heparin coating on ureteral Double J stents prevents encrustations: an in vivo case study. <i>Journal of Endourology</i> , 2008 , 22, 465-72	2.7	84
6	Synthesis and characterization of MCM-41 spheres inside bioactive glass-ceramic scaffold. <i>Chemical Engineering Journal</i> , 2008 , 137, 54-61	14.7	57
5	SBA-15 ordered mesoporous silica inside a bioactive glass-ceramic scaffold for local drug delivery. <i>Journal of Materials Science: Materials in Medicine</i> , 2008 , 19, 3303-10	4.5	35
4	Studies on MCM-41 mesoporous silica for drug delivery: Effect of particle morphology and amine functionalization. <i>Chemical Engineering Journal</i> , 2008 , 137, 30-37	14.7	344
3	Incorporation of ordered mesoporous silica inside a bioactive porous scaffold in view of controlled drug release. <i>Studies in Surface Science and Catalysis</i> , 2005 , 158, 2027-2032	1.8	3
2	Nanogaps and biomolecules 11-33		

- 1 Future Directions for Ureteral Stent Technology: From Bench to the Market. *Advanced Therapeutics*, 2100158 3