

Pier Paolo Pompa

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.

112
papers

5,566
citations

38
h-index

73
g-index

123
ext. papers

6,414
ext. citations

8.1
avg, IF

5.96
L-index

#	Paper	IF	Citations
112	From a Chemotherapeutic Drug to a High-Performance Nanocatalyst: A Fast Colorimetric Test for Cisplatin Detection at ppb Level. <i>Biosensors</i> , 2022 , 12, 375	5.9	2
111	Zinc Polyaleuritate Ionomer Coatings as a Sustainable, Alternative Technology for Bisphenol A-Free Metal Packaging. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 15484-15495	8.3	0
110	Paper-Based Multiplexed Colorimetric Device for the Simultaneous Detection of Salivary Biomarkers. <i>Biosensors</i> , 2021 , 11,	5.9	5
109	Nanosensors for Visual Detection of Glucose in Biofluids: Are We Ready for Instrument-Free Home-Testing?. <i>Materials</i> , 2021 , 14,	3.5	4
108	Digital PCR for Genotype Quantification: A Case Study in a Pasta Production Chain. <i>Biology</i> , 2021 , 10,	4.9	1
107	Association Mechanism of Peptide-Coated Metal Nanoparticles with Model Membranes: A Coarse-Grained Study. <i>Journal of Chemical Theory and Computation</i> , 2021 , 17, 4512-4523	6.4	0
106	Spiky Gold Nanoparticles for the Photothermal Eradication of Colon Cancer Cells. <i>Nanomaterials</i> , 2021 , 11,	5.4	1
105	Biotransformation of Silver Nanoparticles into Oro-Gastrointestinal Tract by Integrated In Vitro Testing Assay: Generation of Exposure-Dependent Physical Descriptors for Nanomaterial Grouping. <i>Nanomaterials</i> , 2021 , 11,	5.4	4
104	Multifunctional PDMS polyHIPE filters for oil-water separation and antibacterial activity. <i>Separation and Purification Technology</i> , 2021 , 255, 117748	8.3	9
103	PET nanoplastics interactions with water contaminants and their impact on human cells. <i>Environmental Pollution</i> , 2021 , 271, 116262	9.3	8
102	Bare Platinum Nanoparticles Deposited on Glassy Carbon Electrodes for Electrocatalytic Detection of Hydrogen Peroxide. <i>ACS Applied Nano Materials</i> , 2021 , 4, 7650-7662	5.6	8
101	Seed-Mediated Synthesis and Catalytic ORR Reactivity of Facet-Stable, Monodisperse Platinum Nano-Octahedra. <i>ACS Applied Energy Materials</i> , 2021 , 4, 9542-9552	6.1	6
100	An innovative and simple all electrochemical approach to functionalize electrodes with a carbon nanotubes/polypyrrole molecularly imprinted nanocomposite and its application for sulfamethoxazole analysis. <i>Journal of Colloid and Interface Science</i> , 2021 , 599, 676-685	9.3	12
99	Nanoplasmonic Strip Test for Salivary Glucose Monitoring.. <i>Nanomaterials</i> , 2021 , 12,	5.4	2
98	Platinum Nanozyme-Enabled Colorimetric Determination of Total Antioxidant Level in Saliva. <i>Analytical Chemistry</i> , 2020 , 92, 8660-8664	7.8	26
97	Antiangiogenic Effect of Graphene Oxide in Primary Human Endothelial Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 22507-22518	9.5	18
96	Intracellular Antioxidant Activity of Biocompatible Citrate-Capped Palladium Nanozymes. <i>Nanomaterials</i> , 2020 , 10,	5.4	20

95	From DNA barcoding to nanoparticle-based colorimetric testing: a new frontier in cephalopod authentication. <i>Applied Nanoscience (Switzerland)</i> , 2020 , 10, 1053-1060	3.3	3
94	An amplification-free colorimetric test for sensitive DNA detection based on the capturing of gold nanoparticle clusters. <i>Nanoscale</i> , 2020 , 12, 15604-15610	7.7	8
93	CXCL12-PLGA/Pluronic Nanoparticle Internalization Abrogates CXCR4-Mediated Cell Migration. <i>Nanomaterials</i> , 2020 , 10,	5.4	3
92	A Fast, Naked-Eye Assay for Varietal Traceability in the Durum Wheat Production Chain. <i>Foods</i> , 2020 , 9,	4.9	5
91	A Rapid Colorimetric Assay for On-Site Authentication of Cephalopod Species. <i>Biosensors</i> , 2020 , 10,	5.9	3
90	Dispersion state phase diagram of citrate-coated metallic nanoparticles in saline solutions. <i>Nature Communications</i> , 2020 , 11, 5422	17.4	15
89	A nanocomposite hydrogel with catalytic properties for trace-element detection in real-world samples. <i>Scientific Reports</i> , 2020 , 10, 18340	4.9	2
88	Synthesis of Citrate-Coated Penta-twinned Palladium Nanorods and Ultrathin Nanowires with a Tunable Aspect Ratio. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 49935-49944	9.5	3
87	Potential Applications of Nanomaterials to Quench the Cytokine Storm in Coronavirus Disease 19. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 906	5.8	6
86	Colorimetric Nanoplasmonics to Spot Hyperglycemia From Saliva. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 601216	5.8	8
85	In Vitro Blood-Brain Barrier Models for Nanomedicine: Particle-Specific Effects and Methodological Drawbacks.. <i>ACS Applied Bio Materials</i> , 2019 , 2, 3279-3289	4.1	3
84	Xylenol orange-based loop-mediated DNA isothermal amplification for sensitive naked-eye detection of Escherichia coli. <i>Journal of Microbiological Methods</i> , 2019 , 156, 9-14	2.8	16
83	In Situ Generation of ZnO Nanoparticles within a Polyethyleneimine Matrix for Antibacterial Zein Fibers. <i>ACS Applied Polymer Materials</i> , 2019 , 1, 1707-1716	4.3	8
82	Nanocatalyst/Nanoplasmon-Enabled Detection of Organic Mercury: A One-Minute Visual Test. <i>Angewandte Chemie</i> , 2019 , 131, 10391-10395	3.6	3
81	Nanocatalyst/Nanoplasmon-Enabled Detection of Organic Mercury: A One-Minute Visual Test. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 10285-10289	16.4	24
80	Delivery of biologically active miR-34a in normal and cancer mammary epithelial cells by synthetic nanoparticles. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019 , 19, 95-105	6	8
79	CXCL5 Modified Nanoparticle Surface Improves CXCR2 Cell Selective Internalization. <i>Cells</i> , 2019 , 9,	7.9	4
78	Design Rules for Mesoporous Silica toward the Nanosize: A Systematic Study. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 47237-47246	9.5	6

77	Antibacterial Melamine Foams Decorated with in Situ Synthesized Silver Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 16095-16104	9.5	21
76	Internalization of Carbon Nano-onions by Hippocampal Cells Preserves Neuronal Circuit Function and Recognition Memory. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 16952-16963	9.5	9
75	Relevance to investigate different stages of pregnancy to highlight toxic effects of nanoparticles: The example of silica. <i>Toxicology and Applied Pharmacology</i> , 2018 , 342, 60-68	4.6	19
74	Preparation and characterization of molecularly imprinted mussel inspired film as antifouling and selective layer for electrochemical detection of sulfamethoxazole. <i>Sensors and Actuators B: Chemical</i> , 2018 , 255, 3374-3383	8.5	40
73	Platinum Nanoparticles Decrease Reactive Oxygen Species and Modulate Gene Expression without Alteration of Immune Responses in THP-1 Monocytes. <i>Nanomaterials</i> , 2018 , 8,	5.4	19
72	Sputtering-Enabled Intracellular X-ray Photoelectron Spectroscopy: A Versatile Method To Analyze the Biological Fate of Metal Nanoparticles. <i>ACS Nano</i> , 2018 , 12, 7731-7740	16.7	12
71	Biotransformation and Biological Interaction of Graphene and Graphene Oxide during Simulated Oral Ingestion. <i>Small</i> , 2018 , 14, e1800227	11	27
70	Multifunctional Platinum@BSA-Rapamycin Nanocarriers for the Combinatorial Therapy of Cerebral Cavernous Malformation. <i>ACS Omega</i> , 2018 , 3, 15389-15398	3.9	19
69	Citrate-Coated, Size-Tunable Octahedral Platinum Nanocrystals: A Novel Route for Advanced Electrocatalysts. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 41608-41617	9.5	17
68	Laser Ablation as a Versatile Tool To Mimic Polyethylene Terephthalate Nanoplastic Pollutants: Characterization and Toxicology Assessment. <i>ACS Nano</i> , 2018 , 12, 7690-7700	16.7	109
67	Graphene Biotransformation: Biotransformation and Biological Interaction of Graphene and Graphene Oxide during Simulated Oral Ingestion (Small 24/2018). <i>Small</i> , 2018 , 14, 1870113	11	1
66	Boosting the therapeutic efficiency of nanovectors: exocytosis engineering. <i>Nanoscale</i> , 2017 , 9, 3757-3765	7.5	7
65	Lipopolyplex potentiates anti-tumor immunity of mRNA-based vaccination. <i>Biomaterials</i> , 2017 , 125, 81-89	9.6	77
64	DNA Barcoding Meets Nanotechnology: Development of a Universal Colorimetric Test for Food Authentication. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 8094-8098	16.4	38
63	Thermally-induced in situ growth of ZnO nanoparticles in polymeric fibrous membranes. <i>Composites Science and Technology</i> , 2017 , 149, 11-19	8.6	13
62	DNA Barcoding Meets Nanotechnology: Development of a Universal Colorimetric Test for Food Authentication. <i>Angewandte Chemie</i> , 2017 , 129, 8206-8210	3.6	3
61	Transparent ciprofloxacin-povidone antibiotic films and nanofiber mats as potential skin and wound care dressings. <i>European Journal of Pharmaceutical Sciences</i> , 2017 , 104, 133-144	5.1	64
60	Particle size affects the cytosolic delivery of membranotropic peptide-functionalized platinum nanozymes. <i>Nanoscale</i> , 2017 , 9, 11288-11296	7.7	15

59	Platinum nanoparticles in nanobiomedicine. <i>Chemical Society Reviews</i> , 2017 , 46, 4951-4975	58.5	216
58	PMA-Induced THP-1 Macrophage Differentiation is Not Impaired by Citrate-Coated Platinum Nanoparticles. <i>Nanomaterials</i> , 2017 , 7,	5.4	20
57	Ultra-efficient, widely tunable gold nanoparticle-based fiducial markers for X-ray imaging. <i>Nanoscale</i> , 2016 , 8, 18921-18927	7.7	12
56	Correction: Ultra-efficient, widely tunable gold nanoparticles-based fiducial markers for X-ray imaging. <i>Nanoscale</i> , 2016 , 8, 19176	7.7	
55	A Universal Polymerase Chain Reaction Developer. <i>Angewandte Chemie</i> , 2016 , 128, 2197-2200	3.6	4
54	A gold nanoparticles-based colorimetric test to detect single nucleotide polymorphisms for improvement of personalized therapy of psoriasis 2016 ,		2
53	A Universal Polymerase Chain Reaction Developer. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 2157-60	16.4	44
52	Platinum nanozymes recover cellular ROS homeostasis in an oxidative stress-mediated disease model. <i>Nanoscale</i> , 2016 , 8, 3739-52	7.7	136
51	All natural cellulose acetate-Lemongrass essential oil antimicrobial nanocapsules. <i>International Journal of Pharmaceutics</i> , 2016 , 510, 508-15	6.5	34
50	Antimicrobial Lemongrass Essential Oil-Copper Ferrite Cellulose Acetate Nanocapsules. <i>Molecules</i> , 2016 , 21, 520	4.8	22
49	Naked-eye fingerprinting of single nucleotide polymorphisms on psoriasis patients. <i>Nanoscale</i> , 2016 , 8, 11027-33	7.7	3
48	Label-Free Isothermal Amplification Assay for Specific and Highly Sensitive Colorimetric miRNA Detection. <i>ACS Omega</i> , 2016 , 1, 448-455	3.9	31
47	Controlled antiseptic/eosin release from chitosan-based hydrogel modified fibrous substrates. <i>Carbohydrate Polymers</i> , 2015 , 131, 306-14	10.3	16
46	Negligible particle-specific toxicity mechanism of silver nanoparticles: the role of Ag ⁺ ion release in the cytosol. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015 , 11, 731-9	6	178
45	Effect of silica nanoparticles with variable size and surface functionalization on human endothelial cell viability and angiogenic activity. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1	2.3	41
44	All-natural composite wound dressing films of essential oils encapsulated in sodium alginate with antimicrobial properties. <i>International Journal of Pharmaceutics</i> , 2014 , 463, 137-45	6.5	205
43	Nanosilver-based antibacterial drugs and devices: mechanisms, methodological drawbacks, and guidelines. <i>Chemical Society Reviews</i> , 2014 , 43, 1501-18	58.5	509
42	Super-resolution fluorescence imaging of biocompatible carbon dots. <i>Nanoscale</i> , 2014 , 6, 8617-23	7.7	85

41	Absolute and direct microRNA quantification using DNA-gold nanoparticle probes. <i>Journal of the American Chemical Society</i> , 2014 , 136, 2264-7	16.4	317
40	Nanotechnology-based strategies for the detection and quantification of microRNA. <i>Chemistry - A European Journal</i> , 2014 , 20, 9476-92	4.8	44
39	Boron dipyrromethene (BODIPY) functionalized carbon nano-onions for high resolution cellular imaging. <i>Nanoscale</i> , 2014 , 6, 13761-9	7.7	62
38	Synthesis of fluorescent metal nanoparticles in aqueous solution by photochemical reduction. <i>Nanotechnology</i> , 2014 , 25, 045601	3.4	9
37	A general mechanism for intracellular toxicity of metal-containing nanoparticles. <i>Nanoscale</i> , 2014 , 6, 7052-61	7.7	320
36	Transport across the cell-membrane dictates nanoparticle fate and toxicity: a new paradigm in nanotoxicology. <i>Nanoscale</i> , 2014 , 6, 10264-73	7.7	66
35	Impact of Amorphous SiO ₂ Nanoparticles on a Living Organism: Morphological, Behavioral, and Molecular Biology Implications. <i>Frontiers in Bioengineering and Biotechnology</i> , 2014 , 2, 37	5.8	30
34	Lab-on-a-chip-based high-throughput screening of the genotoxicity of engineered nanomaterials. <i>Small</i> , 2014 , 10, 2721-34	11	46
33	Gold nanoparticles based colorimetric nanodiagnostics for cancer and infectious diseases 2014 ,		2
32	Toxicity assessment of silica coated iron oxide nanoparticles and biocompatibility improvement by surface engineering. <i>PLoS ONE</i> , 2014 , 9, e85835	3.7	147
31	Gold nanoparticles for naked-eye DNA detection: smart designs for sensitive assays. <i>RSC Advances</i> , 2013 , 3, 19181	3.7	45
30	Controlled antiseptic release by alginate polymer films and beads. <i>Carbohydrate Polymers</i> , 2013 , 92, 1761-1833	11.83	79
29	Colorimetric detection of human papilloma virus by double isothermal amplification. <i>Chemical Communications</i> , 2013 , 49, 10605-7	5.8	20
28	Highly luminescent, flexible and biocompatible cadmium-based nanocomposites. <i>Microelectronic Engineering</i> , 2013 , 111, 299-303	2.5	1
27	InP/ZnS as a safer alternative to CdSe/ZnS core/shell quantum dots: in vitro and in vivo toxicity assessment. <i>Nanoscale</i> , 2013 , 5, 307-17	7.7	235
26	Gold-nanoparticle-based colorimetric discrimination of cancer-related point mutations with picomolar sensitivity. <i>ACS Nano</i> , 2013 , 7, 5530-8	16.7	88
25	Mutagenic effects of gold nanoparticles induce aberrant phenotypes in <i>Drosophila melanogaster</i> . <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2012 , 8, 1-7	6	106
24	SiO ₂ nanoparticles biocompatibility and their potential for gene delivery and silencing. <i>Nanoscale</i> , 2012 , 4, 486-95	7.7	116

23	Molecular response of Escherichia coli adhering onto nanoscale topography. <i>Nanoscale Research Letters</i> , 2012 , 7, 575	5	30
22	Concentration-dependent, size-independent toxicity of citrate capped AuNPs in Drosophila melanogaster. <i>PLoS ONE</i> , 2012 , 7, e29980	3.7	66
21	Monodispersed and size-controlled multibranching gold nanoparticles with nanoscale tuning of surface morphology. <i>Nanoscale</i> , 2011 , 3, 2227-32	7.7	85
20	Physical assessment of toxicology at nanoscale: nano dose-metrics and toxicity factor. <i>Nanoscale</i> , 2011 , 3, 2889-97	7.7	45
19	Impact of nanoscale topography on genomics and proteomics of adherent bacteria. <i>ACS Nano</i> , 2011 , 5, 1865-76	16.7	89
18	Water-repellent cellulose fiber networks with multifunctional properties. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 4024-31	9.5	95
17	CdSe/CdS semiconductor quantum rods as robust fluorescent probes for paraffin-embedded tissue imaging. <i>IEEE Transactions on Nanobioscience</i> , 2011 , 10, 209-15	3.4	7
16	Synthesis of highly stable silver nanoparticles by photoreduction and their size fractionation by phase transfer method. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011 , 392, 264-270	5.1	35
15	Toxicity of citrate-capped AuNPs: an in vitro and in vivo assessment. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 6821-6835	2.3	39
14	In Vivo toxicity assessment of gold nanoparticles in Drosophila melanogaster. <i>Nano Research</i> , 2011 , 4, 405-413	10	69
13	The effect of polymer matrices in the in-situ CdS formation under UV irradiation of precursor-polymer films. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 1267-72	1.3	13
12	Spectral tagging by integrated photonic crystal resonators for highly sensitive and parallel detection in biochips. <i>Applied Physics Letters</i> , 2010 , 96, 113702	3.4	13
11	Effects of cell culture media on the dynamic formation of protein-nanoparticle complexes and influence on the cellular response. <i>ACS Nano</i> , 2010 , 4, 7481-91	16.7	496
10	The Effect of Irradiation Wavelength on the Quality of CdS Nanocrystals Formed Directly into PMMA Matrix. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 13985-13990	3.8	16
9	The biocompatibility of amino functionalized CdSe/ZnS quantum-dot-Doped SiO ₂ nanoparticles with primary neural cells and their gene carrying performance. <i>Biomaterials</i> , 2010 , 31, 6555-66	15.6	65
8	Parallel and high sensitive photonic crystal cavity assisted read-out for DNA-chips. <i>Microelectronic Engineering</i> , 2010 , 87, 747-749	2.5	5
7	Localized formation and size tuning of CdS nanocrystals upon irradiation of metal precursors embedded in polymer matrices. <i>Microelectronic Engineering</i> , 2009 , 86, 816-819	2.5	11
6	Enhanced fluorescence by metal nanospheres on metal substrates. <i>Optics Letters</i> , 2009 , 34, 2381-3	3	34

5	Micro/nanoscale patterning of nanostructured metal substrates for plasmonic applications. <i>ACS Nano</i> , 2009 , 3, 893-900	16.7	49
4	Amyloid-like fibrils in elastin-related polypeptides: structural characterization and elastic properties. <i>Biomacromolecules</i> , 2008 , 9, 796-803	6.9	63
3	Charge transport and intrinsic fluorescence in amyloid-like fibrils. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 18019-24	11.5	155
2	Conformation of microcontact-printed proteins by atomic force microscopy molecular sizing. <i>Langmuir</i> , 2005 , 21, 5154-8	4	19
1	Azurin for Biomolecular Electronics: a Reliability Study. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 6864-6866	1.4	6