

Pier Paolo Pompa

List of Publications by Citations

Source: <https://exaly.com/author-pdf/1220411/pier-paolo-pompa-publications-by-citations.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Nanosilver-based antibacterial drugs and devices: mechanisms, methodological drawbacks, and guidelines. <i>Chemical Society Reviews</i> , 2014 , 43, 1501-18	58.5	509
111	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
110	A general mechanism for intracellular toxicity of metal-containing nanoparticles. <i>Nanoscale</i> , 2014 , 6, 7052-61	7.7	320
109	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
108	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
107	Platinum nanoparticles in nanobiomedicine. <i>Chemical Society Reviews</i> , 2017 , 46, 4951-4975	58.5	216
106	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
105	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
104	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
103	Toxicity assessment of silica coated iron oxide nanoparticles and biocompatibility improvement by surface engineering. <i>PLoS ONE</i> , 2014 , 9, e85835	3.7	147
102	Platinum nanozymes recover cellular ROS homeostasis in an oxidative stress-mediated disease model. <i>Nanoscale</i> , 2016 , 8, 3739-52	7.7	136
101	SiO ₂ nanoparticles biocompatibility and their potential for gene delivery and silencing. <i>Nanoscale</i> , 2012 , 4, 486-95	7.7	116
100	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
99	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
98	Water-repellent cellulose fiber networks with multifunctional properties. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 4024-31	9.5	95
97	Impact of nanoscale topography on genomics and proteomics of adherent bacteria. <i>ACS Nano</i> , 2011 , 5, 1865-76	16.7	89
96	Gold-nanoparticle-based colorimetric discrimination of cancer-related point mutations with picomolar sensitivity. <i>ACS Nano</i> , 2013 , 7, 5530-8	16.7	88

95	Super-resolution fluorescence imaging of biocompatible carbon dots. <i>Nanoscale</i> , 2014 , 6, 8617-23	7.7	85
94	Monodispersed and size-controlled multibranching gold nanoparticles with nanoscale tuning of surface morphology. <i>Nanoscale</i> , 2011 , 3, 2227-32	7.7	85
93	Controlled antiseptic release by alginate polymer films and beads. <i>Carbohydrate Polymers</i> , 2013 , 92, 176-183	8.3	79
92	Lipopolyplex potentiates anti-tumor immunity of mRNA-based vaccination. <i>Biomaterials</i> , 2017 , 125, 81-89	8.6	77
91	In Vivo toxicity assessment of gold nanoparticles in <i>Drosophila melanogaster</i> . <i>Nano Research</i> , 2011 , 4, 405-413	10	69
90	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
89	Concentration-dependent, size-independent toxicity of citrate capped AuNPs in <i>Drosophila melanogaster</i> . <i>PLoS ONE</i> , 2012 , 7, e29980	3.7	66
88	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
87	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
86	Amyloid-like fibrils in elastin-related polypeptides: structural characterization and elastic properties. <i>Biomacromolecules</i> , 2008 , 9, 796-803	6.9	63
85	Boron dipyrromethene (BODIPY) functionalized carbon nano-onions for high resolution cellular imaging. <i>Nanoscale</i> , 2014 , 6, 13761-9	7.7	62
84	Micro/nanoscale patterning of nanostructured metal substrates for plasmonic applications. <i>ACS Nano</i> , 2009 , 3, 893-900	16.7	49
83	Lab-on-a-chip-based high-throughput screening of the genotoxicity of engineered nanomaterials. <i>Small</i> , 2014 , 10, 2721-34	11	46
82	Gold nanoparticles for naked-eye DNA detection: smart designs for sensitive assays. <i>RSC Advances</i> , 2013 , 3, 19181	3.7	45
81	Physical assessment of toxicology at nanoscale: nano dose-metrics and toxicity factor. <i>Nanoscale</i> , 2011 , 3, 2889-97	7.7	45
80	A Universal Polymerase Chain Reaction Developer. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 2157-60	16.4	44
79	Nanotechnology-based strategies for the detection and quantification of microRNA. <i>Chemistry - A European Journal</i> , 2014 , 20, 9476-92	4.8	44
78	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

77	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
76	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
75	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
74	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	5.7	35
73	All natural cellulose acetate-Lemongrass essential oil antimicrobial nanocapsules. <i>International Journal of Pharmaceutics</i> , 2016 , 510, 508-15	6.5	34
72	Enhanced fluorescence by metal nanospheres on metal substrates. <i>Optics Letters</i> , 2009 , 34, 2381-3	3	34
71	Label-Free Isothermal Amplification Assay for Specific and Highly Sensitive Colorimetric miRNA Detection. <i>ACS Omega</i> , 2016 , 1, 448-455	3.9	31
70	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
69	Molecular response of Escherichia coli adhering onto nanoscale topography. <i>Nanoscale Research Letters</i> , 2012 , 7, 575	5	30
68	Biotransformation and Biological Interaction of Graphene and Graphene Oxide during Simulated Oral Ingestion. <i>Small</i> , 2018 , 14, e1800227	11	27
67	Platinum Nanozyme-Enabled Colorimetric Determination of Total Antioxidant Level in Saliva. <i>Analytical Chemistry</i> , 2020 , 92, 8660-8664	7.8	26
66	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
65	Antimicrobial Lemongrass Essential Oil-Copper Ferrite Cellulose Acetate Nanocapsules. <i>Molecules</i> , 2016 , 21, 520	4.8	22
64	Antibacterial Melamine Foams Decorated with in Situ Synthesized Silver Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 16095-16104	9.5	21
63	Colorimetric detection of human papilloma virus by double isothermal amplification. <i>Chemical Communications</i> , 2013 , 49, 10605-7	5.8	20
62	PMA-Induced THP-1 Macrophage Differentiation is Not Impaired by Citrate-Coated Platinum Nanoparticles. <i>Nanomaterials</i> , 2017 , 7,	5.4	20
61	Intracellular Antioxidant Activity of Biocompatible Citrate-Capped Palladium Nanozymes. <i>Nanomaterials</i> , 2020 , 10,	5.4	20
60	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

59	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
58	Conformation of microcontact-printed proteins by atomic force microscopy molecular sizing. <i>Langmuir</i> , 2005 , 21, 5154-8	4	19
57	Multifunctional Platinum@BSA-Rapamycin Nanocarriers for the Combinatorial Therapy of Cerebral Cavernous Malformation. <i>ACS Omega</i> , 2018 , 3, 15389-15398	3.9	19
56	Antiangiogenic Effect of Graphene Oxide in Primary Human Endothelial Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 22507-22518	9.5	18
55	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
54	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
53	Controlled antiseptic/eosin release from chitosan-based hydrogel modified fibrous substrates. <i>Carbohydrate Polymers</i> , 2015 , 131, 306-14	10.3	16
52	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
51	Particle size affects the cytosolic delivery of membranotropic peptide-functionalized platinum nanozymes. <i>Nanoscale</i> , 2017 , 9, 11288-11296	7.7	15
50	Dispersion state phase diagram of citrate-coated metallic nanoparticles in saline solutions. <i>Nature Communications</i> , 2020 , 11, 5422	17.4	15
49	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
48	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
47	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
46	Ultra-efficient, widely tunable gold nanoparticle-based fiducial markers for X-ray imaging. <i>Nanoscale</i> , 2016 , 8, 18921-18927	7.7	12
45	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
44	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
43	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
42	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

41	Synthesis of fluorescent metal nanoparticles in aqueous solution by photochemical reduction. <i>Nanotechnology</i> , 2014 , 25, 045601	3.4	9
40	Multifunctional PDMS polyHIPE filters for oil-water separation and antibacterial activity. <i>Separation and Purification Technology</i> , 2021 , 255, 117748	8.3	9
39	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
38	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
37	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
36	Colorimetric Nanoplasmonics to Spot Hyperglycemia From Saliva. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 601216	5.8	8
35	PET nanoplastics interactions with water contaminants and their impact on human cells. <i>Environmental Pollution</i> , 2021 , 271, 116262	9.3	8
34	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
33	Boosting the therapeutic efficiency of nanovectors: exocytosis engineering. <i>Nanoscale</i> , 2017 , 9, 3757-3765	6.5	7
32	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
31	Azurin for Biomolecular Electronics: a Reliability Study. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 6864-6866	1.4	6
30	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
29	Design Rules for Mesoporous Silica toward the Nanosize: A Systematic Study. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 47237-47246	9.5	6
28	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
27	Parallel and high sensitive photonic crystal cavity assisted read-out for DNA-chips. <i>Microelectronic Engineering</i> , 2010 , 87, 747-749	2.5	5
26	Paper-Based Multiplexed Colorimetric Device for the Simultaneous Detection of Salivary Biomarkers. <i>Biosensors</i> , 2021 , 11,	5.9	5
25	A Fast, Naked-Eye Assay for Varietal Traceability in the Durum Wheat Production Chain. <i>Foods</i> , 2020 , 9,	4.9	5
24	A Universal Polymerase Chain Reaction Developer. <i>Angewandte Chemie</i> , 2016 , 128, 2197-2200	3.6	4

23	CXCL5 Modified Nanoparticle Surface Improves CXCR2 Cell Selective Internalization. <i>Cells</i> , 2019 , 9,	7.9	4
22	Nanosensors for Visual Detection of Glucose in Biofluids: Are We Ready for Instrument-Free Home-Testing?. <i>Materials</i> , 2021 , 14,	3.5	4
21	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
20	DNA Barcoding Meets Nanotechnology: Development of a Universal Colorimetric Test for Food Authentication. <i>Angewandte Chemie</i> , 2017 , 129, 8206-8210	3.6	3
19	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
18	Nanocatalyst/Nanoplasmon-Enabled Detection of Organic Mercury: A One-Minute Visual Test. <i>Angewandte Chemie</i> , 2019 , 131, 10391-10395	3.6	3
17	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
16	CXCL12-PLGA/Pluronic Nanoparticle Internalization Abrogates CXCR4-Mediated Cell Migration. <i>Nanomaterials</i> , 2020 , 10,	5.4	3
15	A Rapid Colorimetric Assay for On-Site Authentication of Cephalopod Species. <i>Biosensors</i> , 2020 , 10,	5.9	3
14	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
13	Naked-eye fingerprinting of single nucleotide polymorphisms on psoriasis patients. <i>Nanoscale</i> , 2016 , 8, 11027-33	7.7	3
12	A gold nanoparticles-based colorimetric test to detect single nucleotide polymorphisms for improvement of personalized therapy of psoriasis 2016 ,		2
11	Gold nanoparticles based colorimetric nanodiagnostics for cancer and infectious diseases 2014 ,		2
10	A nanocomposite hydrogel with catalytic properties for trace-element detection in real-world samples. <i>Scientific Reports</i> , 2020 , 10, 18340	4.9	2
9	Nanoplasmonic Strip Test for Salivary Glucose Monitoring.. <i>Nanomaterials</i> , 2021 , 12,	5.4	2
8	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
7	Highly luminescent, flexible and biocompatible cadmium-based nanocomposites. <i>Microelectronic Engineering</i> , 2013 , 111, 299-303	2.5	1
6	Digital PCR for Genotype Quantification: A Case Study in a Pasta Production Chain. <i>Biology</i> , 2021 , 10,	4.9	1

5	Spiky Gold Nanoparticles for the Photothermal Eradication of Colon Cancer Cells. <i>Nanomaterials</i> , 2021 , 11,	5.4	1
4	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
3	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
2	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
1	Correction: Ultra-efficient, widely tunable gold nanoparticles-based fiducial markers for X-ray imaging. <i>Nanoscale</i> , 2016 , 8, 19176	7.7	