List of Publications by Year in descending order

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PIED PAOLO POMPA

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Nanosilver-based antibacterial drugs and devices: Mechanisms, methodological drawbacks, and guidelines. Chemical Society Reviews, 2014, 43, 1501-1518. | 18.7 | 662 |
| 2 | Effects of Cell Culture Media on the Dynamic Formation of Proteinâ^'Nanoparticle Complexes and Influence on the Cellular Response. ACS Nano, 2010, 4, 7481-7491. | 7.3 | 543 |
| 3 | A general mechanism for intracellular toxicity of metal-containing nanoparticles. Nanoscale, 2014, 6, 7052. | 2.8 | 383 |
| 4 | Absolute and Direct MicroRNA Quantification Using DNA–Gold Nanoparticle Probes. Journal of the American Chemical Society, 2014, 136, 2264-2267. | 6.6 | 355 |
| 5 | Platinum nanoparticles in nanobiomedicine. Chemical Society Reviews, 2017, 46, 4951-4975. | 18.7 | 314 |
| 6 | InP/ZnS as a safer alternative to CdSe/ZnS core/shell quantum dots: in vitro and in vivo toxicity assessment. Nanoscale, 2013, 5, 307-317. | 2.8 | 281 |
| 7 | All-natural composite wound dressing films of essential oils encapsulated in sodium alginate with antimicrobial properties. International Journal of Pharmaceutics, 2014, 463, 137-145. | 2.6 | 241 |
| 8 | Negligible particle-specific toxicity mechanism of silver nanoparticles: The role of Ag+ ion release in the cytosol. Nanomedicine: Nanotechnology, Biology, and Medicine, 2015, 11, 731-739. | 1.7 | 220 |
| 9 | Laser Ablation as a Versatile Tool To Mimic Polyethylene Terephthalate Nanoplastic Pollutants: Characterization and Toxicology Assessment. ACS Nano, 2018, 12, 7690-7700. | 7.3 | 208 |
| 10 | Platinum nanozymes recover cellular ROS homeostasis in an oxidative stress-mediated disease model. Nanoscale, 2016, 8, 3739-3752. | 2.8 | 203 |
| 11 | Charge transport and intrinsic fluorescence in amyloid-like fibrils. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 18019-18024. | 3.3 | 192 |
| 12 | Toxicity Assessment of Silica Coated Iron Oxide Nanoparticles and Biocompatibility Improvement by Surface Engineering. PLoS ONE, 2014, 9, e85835. | 1.1 | 186 |
| 13 | SiO ₂ nanoparticles biocompatibility and their potential for gene delivery and silencing. Nanoscale, 2012, 4, 486-495. | 2.8 | 130 |
| 14 | Lipopolyplex potentiates anti-tumor immunity of mRNA-based vaccination. Biomaterials, 2017, 125, 81-89. | 5.7 | 128 |
| 15 | Mutagenic effects of gold nanoparticles induce aberrant phenotypes in Drosophila melanogaster. Nanomedicine: Nanotechnology, Biology, and Medicine, 2012, 8, 1-7. | 1.7 | 114 |
| 16 | Impact of Nanoscale Topography on Genomics and Proteomics of Adherent Bacteria. ACS Nano, 2011, 5, 1865-1876. | 7.3 | 103 |
| 17 | Water-Repellent Cellulose Fiber Networks with Multifunctional Properties. ACS Applied Materials & Interfaces, 2011, 3, 4024-4031. | 4.0 | 103 |
| 18 | Monodispersed and size-controlled multibranched gold nanoparticles with nanoscale tuning of surface morphology. Nanoscale, 2011, 3, 2227. | 2.8 | 101 |

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|----|---|-------------------|-----------|
| 19 | Gold-Nanoparticle-Based Colorimetric Discrimination of Cancer-Related Point Mutations with Picomolar Sensitivity. ACS Nano, 2013, 7, 5530-5538. | 7.3 | 101 |
| 20 | Super-resolution fluorescence imaging of biocompatible carbon dots. Nanoscale, 2014, 6, 8617. | 2.8 | 97 |
| 21 | Controlled antiseptic release by alginate polymer films and beads. Carbohydrate Polymers, 2013, 92, 176-183. | 5.1 | 95 |
| 22 | Transparent ciprofloxacin-povidone antibiotic films and nanofiber mats as potential skin and wound care dressings. European Journal of Pharmaceutical Sciences, 2017, 104, 133-144. | 1.9 | 95 |
| 23 | In Vivo toxicity assessment of gold nanoparticles in Drosophila melanogaster. Nano Research, 2011, 4, 405-413. | 5.8 | 83 |
| 24 | The biocompatibility of amino functionalized CdSe/ZnS quantum-dot-Doped SiO2 nanoparticles with primary neural cells and their gene carrying performance. Biomaterials, 2010, 31, 6555-6566. | 5.7 | 73 |
| 25 | Concentration-Dependent, Size-Independent Toxicity of Citrate Capped AuNPs in Drosophila melanogaster. PLoS ONE, 2012, 7, e29980. | 1.1 | 73 |
| 26 | Transport across the cell-membrane dictates nanoparticle fate and toxicity: a new paradigm in nanotoxicology. Nanoscale, 2014, 6, 10264-10273. | 2.8 | 73 |
| 27 | Boron dipyrromethene (BODIPY) functionalized carbon nano-onions for high resolution cellular imaging. Nanoscale, 2014, 6, 13761-13769. | 2.8 | 72 |
| 28 | Preparation and characterization of molecularly imprinted mussel inspired film as antifouling and selective layer for electrochemical detection of sulfamethoxazole. Sensors and Actuators B: Chemical, 2018, 255, 3374-3383. | 4.0 | 71 |
| 29 | Amyloid-like Fibrils in Elastin-Related Polypeptides: Structural Characterization and Elastic Properties. Biomacromolecules, 2008, 9, 796-803. | 2.6 | 68 |
| 30 | Micro/Nanoscale Patterning of Nanostructured Metal Substrates for Plasmonic Applications. ACS Nano, 2009, 3, 893-900. | 7.3 | 58 |
| 31 | A Universal Polymerase Chain Reaction Developer. Angewandte Chemie - International Edition, 2016, 55, 2157-2160. | 7.2 | 58 |
| 32 | Nanotechnologyâ€Based Strategies for the Detection and Quantification of MicroRNA. Chemistry - A European Journal, 2014, 20, 9476-9492. | 1.7 | 56 |
| 33 | Gold nanoparticles for naked-eye DNA detection: smart designs for sensitive assays. RSC Advances, 2013, 3, 19181. | 1.7 | 54 |
| 34 | Platinum Nanozyme-Enabled Colorimetric Determination of Total Antioxidant Level in Saliva. Analytical Chemistry, 2020, 92, 8660-8664. | 3.2 | 54 |
| 35 | Physical assessment of toxicology at nanoscale: nano dose-metrics and toxicity factor. Nanoscale, 2011, 3, 2889. | 2.8 | 53 |
| 36 | Labâ€onâ€aâ€Chipâ€Based Highâ€Throughput Screening of the Genotoxicity of Engineered Nanomaterials. Smal 2014, 10, 2721-2734. | l, _{5.2} | 52 |

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|----|--|-----|-----------|
| 37 | DNA Barcoding Meets Nanotechnology: Development of a Universal Colorimetric Test for Food Authentication. Angewandte Chemie - International Edition, 2017, 56, 8094-8098. | 7.2 | 50 |
| 38 | Dispersion state phase diagram of citrate-coated metallic nanoparticles in saline solutions. Nature Communications, 2020, 11, 5422. | 5.8 | 47 |
| 39 | Effect of silica nanoparticles with variable size and surface functionalization on human endothelial cell viability and angiogenic activity. Journal of Nanoparticle Research, 2014, 16, 1. | 0.8 | 45 |
| 40 | Toxicity of citrate-capped AuNPs: an in vitro and in vivo assessment. Journal of Nanoparticle Research, 2011, 13, 6821-6835. | 0.8 | 44 |
| 41 | Impact of Amorphous SiO ₂ Nanoparticles on a Living Organism: Morphological, Behavioral, and Molecular Biology Implications. Frontiers in Bioengineering and Biotechnology, 2014, 2, 37. | 2.0 | 43 |
| 42 | Synthesis of highly stable silver nanoparticles by photoreduction and their size fractionation by phase transfer method. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 392, 264-270. | 2.3 | 42 |
| 43 | All natural cellulose acetate—Lemongrass essential oil antimicrobial nanocapsules. International Journal of Pharmaceutics, 2016, 510, 508-515. | 2.6 | 42 |
| 44 | Biotransformation and Biological Interaction of Graphene and Graphene Oxide during Simulated Oral Ingestion. Small, 2018, 14, e1800227. | 5.2 | 42 |
| 45 | Enhanced fluorescence by metal nanospheres on metal substrates. Optics Letters, 2009, 34, 2381. | 1.7 | 39 |
| 46 | Molecular response of Escherichia coli adhering onto nanoscale topography. Nanoscale Research Letters, 2012, 7, 575. | 3.1 | 37 |
| 47 | Label-Free Isothermal Amplification Assay for Specific and Highly Sensitive Colorimetric miRNA Detection. ACS Omega, 2016, 1, 448-455. | 1.6 | 36 |
| 48 | Intracellular Antioxidant Activity of Biocompatible Citrate-Capped Palladium Nanozymes. Nanomaterials, 2020, 10, 99. | 1.9 | 36 |
| 49 | An innovative and simple all electrochemical approach to functionalize electrodes with a carbon nanotubes/polypyrrole molecularly imprinted nanocomposite and its application for sulfamethoxazole analysis. Journal of Colloid and Interface Science, 2021, 599, 676-685. | 5.0 | 36 |
| 50 | Antibacterial Melamine Foams Decorated with <i>in Situ</i> Synthesized Silver Nanoparticles. ACS Applied Materials & Interfaces, 2018, 10, 16095-16104. | 4.0 | 35 |
| 51 | Nanocatalyst/Nanoplasmonâ€Enabled Detection of Organic Mercury: A Oneâ€Minute Visual Test. Angewandte Chemie - International Edition, 2019, 58, 10285-10289. | 7.2 | 35 |
| 52 | PMA-Induced THP-1 Macrophage Differentiation is Not Impaired by Citrate-Coated Platinum Nanoparticles. Nanomaterials, 2017, 7, 332. | 1.9 | 34 |
| 53 | PET nanoplastics interactions with water contaminants and their impact on human cells. Environmental Pollution, 2021, 271, 116262. | 3.7 | 33 |
| 54 | Xylenol orange-based loop-mediated DNA isothermal amplification for sensitive naked-eye detection of Escherichia coli. Journal of Microbiological Methods, 2019, 156, 9-14. | 0.7 | 32 |

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|----|--|-----|-----------|
| 55 | Multifunctional Platinum@BSA–Rapamycin Nanocarriers for the Combinatorial Therapy of Cerebral Cavernous Malformation. ACS Omega, 2018, 3, 15389-15398. | 1.6 | 31 |
| 56 | Platinum Nanoparticles Decrease Reactive Oxygen Species and Modulate Gene Expression without Alteration of Immune Responses in THP-1 Monocytes. Nanomaterials, 2018, 8, 392. | 1.9 | 31 |
| 57 | Antimicrobial Lemongrass Essential Oil—Copper Ferrite Cellulose Acetate Nanocapsules. Molecules, 2016, 21, 520. | 1.7 | 30 |
| 58 | Antiangiogenic Effect of Graphene Oxide in Primary Human Endothelial Cells. ACS Applied Materials & Interfaces, 2020, 12, 22507-22518. | 4.0 | 29 |
| 59 | Bare Platinum Nanoparticles Deposited on Glassy Carbon Electrodes for Electrocatalytic Detection of Hydrogen Peroxide. ACS Applied Nano Materials, 2021, 4, 7650-7662. | 2.4 | 27 |
| 60 | Multifunctional PDMS polyHIPE filters for oil-water separation and antibacterial activity. Separation and Purification Technology, 2021, 255, 117748. | 3.9 | 26 |
| 61 | Relevance to investigate different stages of pregnancy to highlight toxic effects of nanoparticles: The example of silica. Toxicology and Applied Pharmacology, 2018, 342, 60-68. | 1.3 | 24 |
| 62 | Citrate-Coated, Size-Tunable Octahedral Platinum Nanocrystals: A Novel Route for Advanced Electrocatalysts. ACS Applied Materials & Interfaces, 2018, 10, 41608-41617. | 4.0 | 24 |
| 63 | Particle size affects the cytosolic delivery of membranotropic peptide-functionalized platinum nanozymes. Nanoscale, 2017, 9, 11288-11296. | 2.8 | 23 |
| 64 | Colorimetric detection of human papilloma virus by double isothermal amplification. Chemical Communications, 2013, 49, 10605. | 2.2 | 21 |
| 65 | Sputtering-Enabled Intracellular X-ray Photoelectron Spectroscopy: A Versatile Method To Analyze the Biological Fate of Metal Nanoparticles. ACS Nano, 2018, 12, 7731-7740. | 7.3 | 21 |
| 66 | Conformation of Microcontact-Printed Proteins by Atomic Force Microscopy Molecular Sizing. Langmuir, 2005, 21, 5154-5158. | 1.6 | 20 |
| 67 | Controlled antiseptic/eosin release from chitosan-based hydrogel modified fibrous substrates. Carbohydrate Polymers, 2015, 131, 306-314. | 5.1 | 20 |
| 68 | The Effect of Irradiation Wavelength on the Quality of CdS Nanocrystals Formed Directly into PMMA Matrix. Journal of Physical Chemistry C, 2010, 114, 13985-13990. | 1.5 | 19 |
| 69 | Delivery of biologically active miR-34a in normal and cancer mammary epithelial cells by synthetic nanoparticles. Nanomedicine: Nanotechnology, Biology, and Medicine, 2019, 19, 95-105. | 1.7 | 19 |
| 70 | Seed-Mediated Synthesis and Catalytic ORR Reactivity of Facet-Stable, Monodisperse Platinum Nano-Octahedra. ACS Applied Energy Materials, 2021, 4, 9542-9552. | 2.5 | 18 |
| 71 | Paper-Based Multiplexed Colorimetric Device for the Simultaneous Detection of Salivary Biomarkers. Biosensors, 2021, 11, 443. | 2.3 | 18 |
| 72 | Internalization of Carbon Nano-onions by Hippocampal Cells Preserves Neuronal Circuit Function and Recognition Memory. ACS Applied Materials & amp; Interfaces, 2018, 10, 16952-16963. | 4.0 | 17 |

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|----|---|-----|-----------|
| 73 | Colorimetric Nanoplasmonics to Spot Hyperglycemia From Saliva. Frontiers in Bioengineering and Biotechnology, 2020, 8, 601216. | 2.0 | 17 |
| 74 | Spectral tagging by integrated photonic crystal resonators for highly sensitive and parallel detection in biochips. Applied Physics Letters, 2010, 96, . | 1.5 | 16 |
| 75 | Nanosensors for Visual Detection of Glucose in Biofluids: Are We Ready for Instrument-Free Home-Testing?. Materials, 2021, 14, 1978. | 1.3 | 16 |
| 76 | Thermally-induced in situ growth of ZnO nanoparticles in polymeric fibrous membranes. Composites Science and Technology, 2017, 149, 11-19. | 3.8 | 15 |
| 77 | Localized formation and size tuning of CdS nanocrystals upon irradiation of metal precursors embedded in polymer matrices. Microelectronic Engineering, 2009, 86, 816-819. | 1.1 | 14 |
| 78 | The Effect of Polymer Matrices in the <l>In-Situ</l> CdS Formation Under UV Irradiation of Precursor-Polymer Films. Journal of Nanoscience and Nanotechnology, 2010, 10, 1267-1272. | 0.9 | 14 |
| 79 | Ultra-efficient, widely tunable gold nanoparticle-based fiducial markers for X-ray imaging. Nanoscale, 2016, 8, 18921-18927. | 2.8 | 14 |
| 80 | Design Rules for Mesoporous Silica toward the Nanosize: A Systematic Study. ACS Applied Materials & Interfaces, 2019, 11, 47237-47246. | 4.0 | 14 |
| 81 | An amplification-free colorimetric test for sensitive DNA detection based on the capturing of gold nanoparticle clusters. Nanoscale, 2020, 12, 15604-15610. | 2.8 | 14 |
| 82 | Synthesis of fluorescent metal nanoparticles in aqueous solution by photochemical reduction. Nanotechnology, 2014, 25, 045601. | 1.3 | 13 |
| 83 | In Situ Generation of ZnO Nanoparticles within a Polyethyleneimine Matrix for Antibacterial Zein Fibers. ACS Applied Polymer Materials, 2019, 1, 1707-1716. | 2.0 | 13 |
| 84 | Association Mechanism of Peptide-Coated Metal Nanoparticles with Model Membranes: A Coarse-Grained Study. Journal of Chemical Theory and Computation, 2021, 17, 4512-4523. | 2.3 | 13 |
| 85 | Biotransformation of Silver Nanoparticles into Oro-Gastrointestinal Tract by Integrated In Vitro Testing Assay: Generation of Exposure-Dependent Physical Descriptors for Nanomaterial Grouping. Nanomaterials, 2021, 11, 1587. | 1.9 | 13 |
| 86 | CXCL12-PLGA/Pluronic Nanoparticle Internalization Abrogates CXCR4-Mediated Cell Migration. Nanomaterials, 2020, 10, 2304. | 1.9 | 12 |
| 87 | A Fast, Naked-Eye Assay for Varietal Traceability in the Durum Wheat Production Chain. Foods, 2020, 9, 1691. | 1.9 | 12 |
| 88 | Spiky Gold Nanoparticles for the Photothermal Eradication of Colon Cancer Cells. Nanomaterials, 2021, 11, 1608. | 1.9 | 11 |
| 89 | Synthesis of Citrate-Coated Penta-twinned Palladium Nanorods and Ultrathin Nanowires with a Tunable Aspect Ratio. ACS Applied Materials & Interfaces, 2020, 12, 49935-49944. | 4.0 | 10 |
| 90 | Potential Applications of Nanomaterials to Quench the Cytokine Storm in Coronavirus Disease 19. Frontiers in Bioengineering and Biotechnology, 2020, 8, 906. | 2.0 | 10 |

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|-----|---|-----|-----------|
| 91 | CdSe/CdS Semiconductor Quantum Rods as Robust Fluorescent Probes for Paraffin-Embedded Tissue Imaging. IEEE Transactions on Nanobioscience, 2011, 10, 209-215. | 2.2 | 8 |
| 92 | Boosting the therapeutic efficiency of nanovectors: exocytosis engineering. Nanoscale, 2017, 9, 3757-3765. | 2.8 | 8 |
| 93 | From DNA barcoding to nanoparticle-based colorimetric testing: a new frontier in cephalopod authentication. Applied Nanoscience (Switzerland), 2020, 10, 1053-1060. | 1.6 | 8 |
| 94 | Nanocatalyst-Enabled Physically Unclonable Functions as Smart Anticounterfeiting Tags with Al-Aided Smartphone Authentication. ACS Applied Materials & Interfaces, 2022, 14, 25898-25906. | 4.0 | 8 |
| 95 | DNA Barcoding Meets Nanotechnology: Development of a Universal Colorimetric Test for Food Authentication. Angewandte Chemie, 2017, 129, 8206-8210. | 1.6 | 7 |
| 96 | In Vitro Blood–Brain Barrier Models for Nanomedicine: Particle-Specific Effects and Methodological Drawbacks. ACS Applied Bio Materials, 2019, 2, 3279-3289. | 2.3 | 7 |
| 97 | A Rapid Colorimetric Assay for On-Site Authentication of Cephalopod Species. Biosensors, 2020, 10, 190. | 2.3 | 7 |
| 98 | Azurin for Biomolecular Electronics: a Reliability Study. Japanese Journal of Applied Physics, 2005, 44, 6864-6866. | 0.8 | 6 |
| 99 | CXCL5 Modified Nanoparticle Surface Improves CXCR2+ Cell Selective Internalization. Cells, 2020, 9, 56. | 1.8 | 6 |
| 100 | Nanoplasmonic Strip Test for Salivary Glucose Monitoring. Nanomaterials, 2022, 12, 105. | 1.9 | 6 |
| 101 | Parallel and high sensitive photonic crystal cavity assisted read-out for DNA-chips. Microelectronic Engineering, 2010, 87, 747-749. | 1.1 | 5 |
| 102 | A Universal Polymerase Chain Reaction Developer. Angewandte Chemie, 2016, 128, 2197-2200. | 1.6 | 5 |
| 103 | Lactose-Gated Mesoporous Silica Particles for Intestinal Controlled Delivery of Essential Oil Components: An In Vitro and In Vivo Study. Pharmaceutics, 2021, 13, 982. | 2.0 | 5 |
| 104 | From a Chemotherapeutic Drug to a High-Performance Nanocatalyst: A Fast Colorimetric Test for Cisplatin Detection at ppb Level. Biosensors, 2022, 12, 375. | 2.3 | 5 |
| 105 | Naked-eye fingerprinting of single nucleotide polymorphisms on psoriasis patients. Nanoscale, 2016, 8, 11027-11033. | 2.8 | 4 |
| 106 | Nanocatalyst/Nanoplasmonâ€Enabled Detection of Organic Mercury: A Oneâ€Minute Visual Test. Angewandte Chemie, 2019, 131, 10391-10395. | 1.6 | 4 |
| 107 | A nanocomposite hydrogel with catalytic properties for trace-element detection in real-world samples. Scientific Reports, 2020, 10, 18340. | 1.6 | 4 |
| 108 | Colorimetric Point-of-Care Detection of Clostridium tyrobutyricum Spores in Milk Samples. Biosensors, 2021, 11, 293. | 2.3 | 4 |

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| 109 | Zinc Polyaleuritate Ionomer Coatings as a Sustainable, Alternative Technology for Bisphenol A-Free Metal Packaging. ACS Sustainable Chemistry and Engineering, 2021, 9, 15484-15495. | 3.2 | 4 |
| 110 | Green chemistry and first-principles theory enhance catalysis: synthesis and 6-fold catalytic activity increase of sub-5 nm Pd and Pt@Pd nanocubes. Nanoscale, 2022, 14, 10155-10168. | 2.8 | 4 |
| 111 | Gold nanoparticles based colorimetric nanodiagnostics for cancer and infectious diseases. Proceedings of SPIE, 2014, , . | 0.8 | 3 |
| 112 | A gold nanoparticles-based colorimetric test to detect single nucleotide polymorphisms for improvement of personalized therapy of psoriasis. Proceedings of SPIE, 2016, , . | 0.8 | 3 |
| 113 | Digital PCR for Genotype Quantification: A Case Study in a Pasta Production Chain. Biology, 2021, 10, 419. | 1.3 | 3 |
| 114 | Highly luminescent, flexible and biocompatible cadmium-based nanocomposites. Microelectronic Engineering, 2013, 111, 299-303. | 1.1 | 2 |
| 115 | Graphene Biotransformation: Biotransformation and Biological Interaction of Graphene and Graphene Oxide during Simulated Oral Ingestion (Small 24/2018). Small, 2018, 14, 1870113. | 5.2 | 2 |
| 116 | Correction: Ultra-efficient, widely tunable gold nanoparticles-based fiducial markers for X-ray imaging. Nanoscale, 2016, 8, 19176-19176. | 2.8 | 0 |
| 117 | A naked-eye colorimetric "PCR developer― Proceedings of SPIE, 2016, , . | 0.8 | 0 |
| 118 | Hybrid nanosensor for colorimetric and ultrasensitive detection of nuclease contaminations. Proceedings of SPIE, 2016, , . | 0.8 | 0 |