# Paolo Bergese

## List of Publications by Year in Descending Order



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| 79 papers | 5,448 citations | 24 h-index | 73 g-index |
| 91 ext. papers | 7,618 ext. citations | 7.4 avg, IF | 4.71 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 79 | Thermodynamics of (nano)interfaces **2022**, 13-56 | | |
| 78 | Nanoanalytical analysis of bisphosphonate-driven alterations of microcalcifications using a 3D hydrogel system and in vivo mouse model. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118, | 11.5 | 4 |
| 77 | BMP6 binding to heparin and heparan sulfate is mediated by N-terminal and C-terminal clustered basic residues. *Biochimica Et Biophysica Acta - General Subjects*, **2021**, 1865, 129799 | 4 | 3 |
| 76 | A plasmon-based nanoruler to probe the mechanical properties of synthetic and biogenic nanosized lipid vesicles. *Nanoscale Horizons*, **2021**, 6, 543-550 | 10.8 | 8 |
| 75 | Extracellular vesicles from rat-bone-marrow mesenchymal stromal/stem cells improve tendon repair in rat Achilles tendon injury model in dose-dependent manner: A pilot study. *PLoS ONE*, **2020**, 15, e0229914 | 3.7 | 14 |
| 74 | Biogenic supported lipid bilayers as a tool to investigate nano-bio interfaces. *Journal of Colloid and Interface Science*, **2020**, 570, 340-349 | 9.3 | 12 |
| 73 | AFM-Based High-Throughput Nanomechanical Screening of Single Extracellular Vesicles. *Analytical Chemistry*, **2020**, 92, 10274-10282 | 7.8 | 35 |
| 72 | Fourier-transform Infrared (FT-IR) spectroscopy fingerprints subpopulations of extracellular vesicles of different sizes and cellular origin. *Journal of Extracellular Vesicles*, **2020**, 9, 1741174 | 16.4 | 21 |
| 71 | Extracellular vesicles in regenerative medicine **2020**, 29-58 | | 1 |
| 70 | Shedding light on membrane-templated clustering of gold nanoparticles. *Journal of Colloid and Interface Science*, **2020**, 573, 204-214 | 9.3 | 16 |
| 69 | Exploitation of a novel biosensor based on the full-length human F508del-CFTR with computational studies, biochemical and biological assays for the characterization of a new Lumacaftor/Tezacaftor analogue. *Sensors and Actuators B: Chemical*, **2019**, 301, 127131 | 8.5 | 4 |
| 68 | Analysis of a nanoparticle-enriched fraction of plasma reveals miRNA candidates for Down syndrome pathogenesis. *International Journal of Molecular Medicine*, **2019**, 43, 2303-2318 | 4.4 | 13 |
| 67 | Augmented COlorimetric NANoplasmonic (CONAN) Method for Grading Purity and Determine Concentration of EV Microliter Volume Solutions. *Frontiers in Bioengineering and Biotechnology*, **2019**, 7, 452 | 5.8 | 12 |
| 66 | On the issue of transparency and reproducibility in nanomedicine. *Nature Nanotechnology*, **2019**, 14, 629-635 | 28.7 | 92 |
| 65 | Biological membranes in EV biogenesis, stability, uptake, and cargo transfer: an ISEV position paper arising from the ISEV membranes and EVs workshop. *Journal of Extracellular Vesicles*, **2019**, 8, 1684862 | 16.4 | 97 |
| 64 | The nanostructured secretome. *Biomaterials Science*, **2019**, 8, 39-63 | 7.4 | 18 |
| 63 | Collapse of the Plasmacytoid Dendritic Cell Compartment in Advanced Cutaneous Melanomas by Components of the Tumor Cell Secretome. *Cancer Immunology Research*, **2019**, 7, 12-28 | 12.5 | 18 |

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| 62 | Biogenic Supported Lipid Bilayers from Nanosized Extracellular Vesicles. *Advanced Biology*, **2018**, 2, 1700200 | 3.5 | 14 |
| 61 | Model lipid bilayers mimic non-specific interactions of gold nanoparticles with macrophage plasma membranes. *Journal of Colloid and Interface Science*, **2018**, 516, 284-294 | 9.3 | 25 |
| 60 | Uptake Profiles of Human Serum Exosomes by Murine and Human Tumor Cells through Combined Use of Colloidal Nanoplasmonics and Flow Cytofluorimetric Analysis. *Analytical Chemistry*, **2018**, 90, 7855-7861 | 7.8 | 22 |
| 59 | Endogenous exosome labelling with an amphiphilic NIR-fluorescent probe. *Chemical Communications*, **2018**, 54, 7219-7222 | 5.8 | 12 |
| 58 | Exosome-delivered microRNAs promote IFN-□ secretion by human plasmacytoid DCs via TLR7. *JCI Insight*, **2018**, 3, | 9.9 | 65 |
| 57 | Minimal information for studies of extracellular vesicles 2018 (MISEV2018): a position statement of the International Society for Extracellular Vesicles and update of the MISEV2014 guidelines. *Journal of Extracellular Vesicles*, **2018**, 7, 1535750 | 16.4 | 3642 |
| 56 | Interaction of Extracellular Vesicles with Si Surface Studied by Nanomechanical Microcantilever Sensors. *Applied Sciences (Switzerland)*, **2018**, 8, 404 | 2.6 | 2 |
| 55 | Tangential Flow Filtration for Highly Efficient Concentration of Extracellular Vesicles from Large Volumes of Fluid. *Cells*, **2018**, 7, | 7.9 | 142 |
| 54 | Probing lysine mono-methylation in histone H3 tail peptides with an abiotic receptor coupled to a non-plasmonic resonator. *Nanoscale*, **2017**, 9, 8639-8646 | 7.7 | 20 |
| 53 | Cultured human amniocytes express hTERT, which is distributed between nucleus and cytoplasm and is secreted in extracellular vesicles. *Biochemical and Biophysical Research Communications*, **2017**, 483, 706-711 | 3.4 | 20 |
| 52 | Exosomes Secreted by HeLa Cells Shuttle on Their Surface the Plasma Membrane-Associated Sialidase NEU3. *Biochemistry*, **2017**, 56, 6401-6408 | 3.2 | 21 |
| 51 | Highlights of the S□ Paulo ISEV workshop on extracellular vesicles in cross-kingdom communication. *Journal of Extracellular Vesicles*, **2017**, 6, 1407213 | 16.4 | 24 |
| 50 | Exploiting Exosomes for Differential Diagnosis of Multiple Myeloma and Monoclonal Gammopathy of Undetermined Significance **2017**, | | 1 |
| 49 | Size distribution of extracellular vesicles by optical correlation techniques. *Colloids and Surfaces B: Biointerfaces*, **2017**, 158, 331-338 | 6 | 29 |
| 48 | Embodied energy as key parameter for sustainable materials selection: The case of reusing coal fly ash for removing anionic surfactants. *Journal of Cleaner Production*, **2017**, 141, 230-236 | 10.3 | 35 |
| 47 | RNA-seq reveals distinctive RNA profiles of small extracellular vesicles from different human liver cancer cell lines. *Oncotarget*, **2017**, 8, 82920-82939 | 3.3 | 23 |
| 46 | Merging colloidal nanoplasmonics and surface plasmon resonance spectroscopy for enhanced profiling of multiple myeloma-derived exosomes. *Biosensors and Bioelectronics*, **2016**, 77, 518-24 | 11.8 | 51 |
| 45 | Residual matrix from different separation techniques impacts exosome biological activity. *Scientific Reports*, **2016**, 6, 23550 | 4.9 | 95 |

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| 44 | Cavitands Endow All-Dielectric Beads With Selectivity for Plasmon-Free Enhanced Raman Detection of N-Methylated Lysine. *ACS Applied Materials & Interfaces*, **2016**, 8, 14944-51 | 9.5 | 22 |
| 43 | Energetics of surface confined ferritin during iron loading. *Colloids and Surfaces B: Biointerfaces*, **2016**, 145, 520-525 | 6 | 5 |
| 42 | Comparison between rice husk ash grown in different regions for stabilizing fly ash from a solid waste incinerator. *Journal of Environmental Management*, **2015**, 159, 128-134 | 7.9 | 22 |
| 41 | Colorimetric nanoplasmonic assay to determine purity and titrate extracellular vesicles. *Analytical Chemistry*, **2015**, 87, 4168-76 | 7.8 | 67 |
| 40 | Interaction of nanoparticles with lipid membranes: a multiscale perspective. *Nanoscale*, **2014**, 6, 6452-7 | 7.7 | 53 |
| 39 | Surfactant titration of nanoparticle-protein corona. *Analytical Chemistry*, **2014**, 86, 12055-63 | 7.8 | 39 |
| 38 | Cavitand-grafted silicon microcantilevers as a universal probe for illicit and designer drugs in water. *Angewandte Chemie - International Edition*, **2014**, 53, 9183-8 | 16.4 | 39 |
| 37 | Cavitand-Grafted Silicon Microcantilevers as a Universal Probe for Illicit and Designer Drugs in Water. *Angewandte Chemie*, **2014**, 126, 9337-9342 | 3.6 | 6 |
| 36 | Thermodynamics of (Nano)interfaces **2014**, 1-31 | | 2 |
| 35 | Sensitive determination of the Young modulus of thin films by polymeric microcantilevers. *Measurement Science and Technology*, **2013**, 24, 125603 | 2 | 12 |
| 34 | Leveraging on nanomechanical sensors to single out active small ligands for -microglobulin. *Sensors and Actuators B: Chemical*, **2013**, 176, 1026-1031 | 8.5 | 8 |
| 33 | Nanomechanics of surface DNA switches probed by captive contact angle. *Journal of Colloid and Interface Science*, **2013**, 402, 334-9 | 9.3 | 16 |
| 32 | On the thermodynamics of biomolecule surface transformations. *Journal of Colloid and Interface Science*, **2012**, 375, 1-11 | 9.3 | 16 |
| 31 | Nanomechanical recognition of N-methylammonium salts. *Journal of the American Chemical Society*, **2012**, 134, 2392-8 | 16.4 | 35 |
| 30 | Role of nanomechanics in canonical and noncanonical pro-angiogenic ligand/VEGF receptor-2 activation. *Journal of the American Chemical Society*, **2012**, 134, 14573-9 | 16.4 | 20 |
| 29 | Local order and non-linear optical properties in bulk nanostructured niobiosilicate glasses. *Journal of Non-Crystalline Solids*, **2011**, 357, 1218-1222 | 3.9 | 5 |
| 28 | Quantifying the nanomachinery of the nanoparticle-biomolecule interface. *Small*, **2011**, 7, 2477-84 | 11 | 30 |
| 27 | On the difference of equilibrium constants of DNA hybridization in bulk solution and at the solid-solution interface. *Journal of Molecular Recognition*, **2011**, 24, 182-7 | 2.6 | 18 |

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| 26 | Protein thin film machines. *Nanoscale*, **2010**, 2, 2570-4 | 7.7 | 24 |
| 25 | Nanoliter contact angle probes tumor angiogenic ligand-receptor protein interactions. *Biosensors and Bioelectronics*, **2010**, 26, 1571-5 | 11.8 | 11 |
| 24 | Self-assembled polystyrene nanospheres for the evaluation of atomic force microscopy tip curvature radius. *Measurement Science and Technology*, **2009**, 20, 084015 | 2 | 7 |
| 23 | Exploiting Surface Plasmon Resonance (SPR) Technology for the Identification of Fibroblast Growth Factor-2 (FGF2) Antagonists Endowed with Antiangiogenic Activity. *Sensors*, **2009**, 9, 6471-503 | 3.8 | 16 |
| 22 | Molecular recognition by contact angle: proof of concept with DNA hybridization. *Langmuir*, **2009**, 25, 4271-3 | 4 | 15 |
| 21 | Polymer-coated quartz crystal microbalance chemical sensor for heavy cations in water. *Journal of Nanoscience and Nanotechnology*, **2009**, 9, 1164-8 | 1.3 | 10 |
| 20 | ZnO whiskers and belts in chestnut husk-like structures: synthesis and proof of chemomechanical transduction. *Journal of Nanoscience and Nanotechnology*, **2009**, 9, 1597-602 | 1.3 | 4 |
| 19 | Advances in parallel screening of drug candidates. *Current Medicinal Chemistry*, **2008**, 15, 1706-19 | 4.3 | 14 |
| 18 | A biofunctional polymeric coating for microcantilever molecular recognition. *Analytica Chimica Acta* , **2008**, 630, 161-7 | 6.6 | 36 |
| 17 | Investigation of a biofunctional polymeric coating deposited onto silicon microcantilevers. *Applied Surface Science*, **2007**, 253, 4226-4231 | 6.7 | 10 |
| 16 | Atomic force microscopy evaluation of the effects of a novel antimicrobial multimeric peptide on Pseudomonas aeruginosa. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2007**, 3, 198-207 | 6 | 27 |
| 15 | Thermodynamics of mechanical transduction of surface confined receptor/ligand reactions. *Journal of Colloid and Interface Science*, **2007**, 316, 1017-22 | 9.3 | 24 |
| 14 | Analysis of livestock DNA using nanotechnologies. *Italian Journal of Animal Science*, **2007**, 6, 166-166 | 2.2 | |
| 13 | Phase transformations in bulk nanostructured potassium niobiosilicate glasses. *Journal of Physical Chemistry B*, **2006**, 110, 25740-5 | 3.4 | 10 |
| 12 | Specific heat, polarization and heat conduction in microwave heating systems: A nonequilibrium thermodynamic point of view. *Acta Materialia*, **2006**, 54, 1843-1849 | 8.4 | 22 |
| 11 | A simple solution to systematic errors in density determination by X-ray reflectivity: The XRR-density evaluation (XRR-DE) method. *Applied Surface Science*, **2006**, 253, 28-32 | 6.7 | 27 |
| 10 | Laboratory Microbeam Analysis Applied to Cultural Heritage Studies. *Mikrochimica Acta*, **2006**, 155, 101-104 | 3.4 | 10 |
| 9 | Thermal transformations and stability of organometallic materials with electrical and optical properties: the case of polycrystalline cis-[Ir(CO)2Cl(C5H5N)]. *Journal of Physical Chemistry B*, **2005**, 109, 711-5 | 3.4 | 3 |

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| 8 | Microstructure and morphology of nimesulide/crospovidone nanocomposites by Raman and electron microscopies. *Composites Part A: Applied Science and Manufacturing*, **2005**, 36, 443-448 | 8.4 | 8 |
| 7 | Melting of Nanostructured Drugs Embedded into a Polymeric Matrix. *Journal of Physical Chemistry B*, **2004**, 108, 15488-15493 | 3.4 | 26 |
| 6 | Microwave generated nanocomposites for making insoluble drugs soluble. *Materials Science and Engineering C*, **2003**, 23, 791-795 | 8.3 | 39 |
| 5 | Microstructural investigation of nimesulide–crospovidone composites by X-ray diffraction and thermal analysis. *Composites Science and Technology*, **2003**, 63, 1197-1201 | 8.6 | 12 |
| 4 | Assessment of the X-ray diffraction–absorption method for quantitative analysis of largely amorphous pharmaceutical composites. *Journal of Applied Crystallography*, **2003**, 36, 74-79 | 3.8 | 10 |
| 3 | Micro X-ray diffraction on capillary powder samples: a novel and effective technique for overcoming preferred orientation. *Journal of Applied Crystallography*, **2001**, 34, 663-665 | 3.8 | 12 |
| 2 | High-resolution radon monitoring and hydrodynamics at Mount Vesuvius. *Geophysical Research Letters*, **2001**, 28, 4035-4038 | 4.9 | 31 |
| 1 | AFM-based High-Throughput Nanomechanical Screening of Single Extracellular Vesicles | | 3 |