Paolo Bergese

List of Publications by Year
in descending order

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Version: 2024-02-01

82	9,549	172386	60583
papers	citations	29	81
		h-index	g-index

91	91	91	15113
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Thermodynamics of (nano)interfaces. , 2022, , 13-56.		0
2	A different protein corona cloaks â€œtrue-to-lifeâ€•nanoplastics with respect to synthetic polystyrene nanobeads. Environmental Science: Nano, 2022, 9, 1414-1426.	2.2	6
3	Comparison of separation methods for immunomodulatory extracellular vesicles from helminths. , 2022, 1, .		9
4	Human Microglia Extracellular Vesicles Derived from Different Microglia Cell Lines: Similarities and Differences. ACS Omega, 2022, 7, 23127-23137.	1.6	4
5	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.	1.1	7
6	A plasmon-based nanoruler to probe the mechanical properties of synthetic and biogenic nanosized lipid vesicles. Nanoscale Horizons, 2021, 6, 543-550.	4.1	22
7	Biogenic, hybrid and synthetic vesicles. Biochimica Et Biophysica Acta - General Subjects, 2021, 1865, 129779.	1.1	1
8	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, .	3.3	9
9	The nanostructured secretome. Biomaterials Science, 2020, 8, 39-63.	2.6	36
10	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.	1.1	35
11	Biogenic supported lipid bilayers as a tool to investigate nano-bio interfaces. Journal of Colloid and Interface Science, 2020, 570, 340-349.	5.0	24
12	AFM-Based High-Throughput Nanomechanical Screening of Single Extracellular Vesicles. Analytical Chemistry, 2020, 92, 10274-10282.	3.2	72
13	Fourierâ€transform Infrared (FTâ€IR) spectroscopy fingerprints subpopulations of extracellular vesicles of different sizes and cellular origin. Journal of Extracellular Vesicles, 2020, 9, 1741174.	5.5	43
14	Shedding light on membrane-templated clustering of gold nanoparticles. Journal of Colloid and Interface Science, 2020, 573, 204-214.	5.0	27
15	Extracellular vesicles in regenerative medicine. , 2020, , 29-58.		4
16	On the issue of transparency and reproducibility in nanomedicine. Nature Nanotechnology, 2019, 14, 629-635.	15.6	149
17	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.	5.5	177
18	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.	4.0	7

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19	Analysis of a nanoparticleâ€'enriched fraction of plasma reveals miRNA candidates for Down syndrome pathogenesis. International Journal of Molecular Medicine, 2019, 43, 2303-2318.	1.8	16
20	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.	1.6	21
21	Augmented COlorimetric NANoplasmonic (CONAN) Method for Grading Purity and Determine Concentration of EV Microliter Volume Solutions. Frontiers in Bioengineering and Biotechnology, 2019, 7, 452.	2.0	29
22	Biogenic Supported Lipid Bilayers from Nanosized Extracellular Vesicles. Advanced Biology, 2018, 2, 1700200.	3.0	19
23	Model lipid bilayers mimic non-specific interactions of gold nanoparticles with macrophage plasma membranes. Journal of Colloid and Interface Science, 2018, 516, 284-294.	5.0	32
24	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.	5.5	6,961
25	Interaction of Extracellular Vesicles with Si Surface Studied by Nanomechanical Microcantilever Sensors. Applied Sciences (Switzerland), 2018, 8, 404.	1.3	3
26	Tangential Flow Filtration for Highly Efficient Concentration of Extracellular Vesicles from Large Volumes of Fluid. Cells, 2018, 7, 273.	1.8	262
27	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.	3.2	25
28	Endogenous exosome labelling with an amphiphilic NIR-fluorescent probe. Chemical Communications, 2018, 54, 7219-7222.	2.2	16
29	Exosome-delivered microRNAs promote IFN-Î± secretion by human plasmacytoid DCs via TLR7. JCI Insight, 2018, 3, .	2.3	96
30	Probing lysine mono-methylation in histone H3 tail peptides with an abiotic receptor coupled to a non-plasmonic resonator. Nanoscale, 2017, 9, 8639-8646.	2.8	24
31	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.	1.0	21
32	Exosomes Secreted by HeLa Cells Shuttle on Their Surface the Plasma Membrane-Associated Sialidase NEU3. Biochemistry, 2017, 56, 6401-6408.	1.2	29
33	Size distribution of extracellular vesicles by optical correlation techniques. Colloids and Surfaces B: Biointerfaces, 2017, 158, 331-338.	2.5	43
34	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.	4.6	50
35	Highlights of the SÃ£o Paulo ISEV workshop on extracellular vesicles in crossâ€kingdom communication. Journal of Extracellular Vesicles, 2017, 6, 1407213.	5.5	38
36	Exploiting Exosomes for Differential Diagnosis of Multiple Myeloma and Monoclonal Gammopathy of Undetermined Significance. , 2017, , .		1

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37	RNA-seq reveals distinctive RNA profiles of small extracellular vesicles from different human liver cancer cell lines. Oncotarget, 2017, 8, 82920-82939.	0.8	31
38	Energetics of surface confined ferritin during iron loading. Colloids and Surfaces B: Biointerfaces, 2016, 145, 520-525.	2.5	8
39	Residual matrix from different separation techniques impacts exosome biological activity. Scientific Reports, 2016, 6, 23550.	1.6	138
40	Cavitands Endow All-Dielectric Beads With Selectivity for Plasmon-Free Enhanced Raman Detection of N_{Îµ}-Methylated Lysine. ACS Applied Materials & Interfaces, 2016, 8, 14944-14951.	4.0	24
41	Merging colloidal nanoplasmonics and surface plasmon resonance spectroscopy for enhanced profiling of multiple myeloma-derived exosomes. Biosensors and Bioelectronics, 2016, 77, 518-524.	5.3	63
42	Colorimetric Nanoplasmonic Assay To Determine Purity and Titrate Extracellular Vesicles. Analytical Chemistry, 2015, 87, 4168-4176.	3.2	92
43	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.	3.8	30
44	Thermodynamics of (Nano)interfaces. , 2014, , 1-31.		4
45	Interaction of nanoparticles with lipid membranes: a multiscale perspective. Nanoscale, 2014, 6, 6452-6457.	2.8	68
46	Surfactant Titration of Nanoparticleâ€“Protein Corona. Analytical Chemistry, 2014, 86, 12055-12063.	3.2	49
47	Cavitandâ€Grafted Silicon Microcantilevers as a Universal Probe for Illicit and Designer Drugs in Water. Angewandte Chemie - International Edition, 2014, 53, 9183-9188.	7.2	49
48	Sensitive determination of the Young's modulus of thin films by polymeric microcantilevers. Measurement Science and Technology, 2013, 24, 125603.	1.4	12
49	Leveraging on nanomechanical sensors to single out active small ligands for Î²2-microglobulin. Sensors and Actuators B: Chemical, 2013, 176, 1026-1031.	4.0	10
50	Nanomechanics of surface DNA switches probed by captive contact angle. Journal of Colloid and Interface Science, 2013, 402, 334-339.	5.0	17
51	Nanomechanical Recognition of N-Methylammonium Salts. Journal of the American Chemical Society, 2012, 134, 2392-2398.	6.6	36
52	Role of Nanomechanics in Canonical and Noncanonical Pro-angiogenic Ligand/VEGF Receptor-2 Activation. Journal of the American Chemical Society, 2012, 134, 14573-14579.	6.6	24
53	On the thermodynamics of biomolecule surface transformations. Journal of Colloid and Interface Science, 2012, 375, 1-11.	5.0	18
54	Local order and non-linear optical properties in bulk nanostructured niobiosilicate glasses. Journal of Non-Crystalline Solids, 2011, 357, 1218-1222.	1.5	6

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55	Quantifying the Nanomachinery of the Nanoparticleâ€“Biomolecule Interface. Small, 2011, 7, 2477-2484.	5.2	38
56	On the difference of equilibrium constants of DNA hybridization in bulk solution and at the solidâ€solution interface. Journal of Molecular Recognition, 2011, 24, 182-187.	1.1	23
57	Nanoliter contact angle probes tumor angiogenic ligandâ€receptor protein interactions. Biosensors and Bioelectronics, 2010, 26, 1571-1575.	5.3	14
58	Protein thin film machines. Nanoscale, 2010, 2, 2570.	2.8	26
59	Self-assembled polystyrene nanospheres for the evaluation of atomic force microscopy tip curvature radius. Measurement Science and Technology, 2009, 20, 084015.	1.4	8
60	Exploiting Surface Plasmon Resonance (SPR) Technology for the Identification of Fibroblast Growth Factor-2 (FGF2) Antagonists Endowed with Antiangiogenic Activity. Sensors, 2009, 9, 6471-6503.	2.1	17
61	Molecular Recognition by Contact Angle: Proof of Concept with DNA Hybridization. Langmuir, 2009, 25, 4271-4273.	1.6	16
62	Polymer-Coated Quartz Crystal Microbalance Chemical Sensor for Heavy Cations in Water. Journal of Nanoscience and Nanotechnology, 2009, 9, 1164-1168.	0.9	12
63	ZnO Whiskers and Belts in Chestnut Husk-Like Structures: Synthesis and Proof of Chemomechanical Transduction. Journal of Nanoscience and Nanotechnology, 2009, 9, 1597-1602.	0.9	5
64	A biofunctional polymeric coating for microcantilever molecular recognition. Analytica Chimica Acta, 2008, 630, 161-167.	2.6	39
65	Advances in Parallel Screening of Drug Candidates. Current Medicinal Chemistry, 2008, 15, 1706-1719.	1.2	15
66	Investigation of a biofunctional polymeric coating deposited onto silicon microcantilevers. Applied Surface Science, 2007, 253, 4226-4231.	3.1	10
67	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.	1.7	29
68	Thermodynamics of mechanical transduction of surface confined receptor/ligand reactions. Journal of Colloid and Interface Science, 2007, 316, 1017-1022.	5.0	25
69	Analysis of livestock DNA using nanotechnologies. Italian Journal of Animal Science, 2007, 6, 166-166.	0.8	0
70	Phase Transformations in Bulk Nanostructured Potassium Niobiosilicate Glasses. Journal of Physical Chemistry B, 2006, 110, 25740-25745.	1.2	11
71	Specific heat, polarization and heat conduction in microwave heating systems: A nonequilibrium thermodynamic point of view. Acta Materialia, 2006, 54, 1843-1849.	3.8	31
72	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.	3.1	30

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73	Laboratory Microbeam Analysis Applied to Cultural Heritage Studies. Mikrochimica Acta, 2006, 155, 101-104.	2.5	10
74	Thermal Transformations and Stability of Organometallic Materials with Electrical and Optical Properties:Â The Case of Polycrystallinecis-[Ir(CO)2Cl(C5H5N)]. Journal of Physical Chemistry B, 2005, 109, 711-715.	1.2	3
75	Microstructure and morphology of nimesulide/crospovidone nanocomposites by Raman and electron microscopies. Composites Part A: Applied Science and Manufacturing, 2005, 36, 443-448.	3.8	9
76	Melting of Nanostructured Drugs Embedded into a Polymeric Matrix. Journal of Physical Chemistry B, 2004, 108, 15488-15493.	1.2	29
77	Microwave generated nanocomposites for making insoluble drugs soluble. Materials Science and Engineering C, 2003, 23, 791-795.	3.8	46
78	Microstructural investigation of nimesulideâ€“crospovidone composites by X-ray diffraction and thermal analysis. Composites Science and Technology, 2003, 63, 1197-1201.	3.8	13
79	Assessment of the X-ray diffractionâ€“absorption method for quantitative analysis of largely amorphous pharmaceutical composites. Journal of Applied Crystallography, 2003, 36, 74-79.	1.9	14
80	High-resolution radon monitoring and hydrodynamics at Mount Vesuvius. Geophysical Research Letters, 2001, 28, 4035-4038.	1.5	35
81	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.	1.9	16
82	Surface Nanomechanics of Biomolecules and Supramolecular Systems. , 0, , .		0