Dorota Bartczak

List of Publications by Citations

25 papers	920 citations	17 h-index	27 g-index
27 ext. papers	1,104 ext. citations	5.6 avg, IF	4.27 L-index

#	Paper	IF	Citations
25	Preparation of peptide-functionalized gold nanoparticles using one pot EDC/sulfo-NHS coupling. *Langmuir*, **2011**, 27, 10119-23	4	177
24	Interactions of human endothelial cells with gold nanoparticles of different morphologies. *Small*, **2012**, 8, 122-30	11	97
23	Manipulation of in vitro angiogenesis using peptide-coated gold nanoparticles. *ACS Nano*, **2013**, 7, 5628-36	13.7	73
22	Exocytosis of peptide functionalized gold nanoparticles in endothelial cells. *Nanoscale*, **2012**, 4, 4470-2	7.7	68
21	The potential of asymmetric flow field-flow fractionation hyphenated to multiple detectors for the quantification and size estimation of silica nanoparticles in a food matrix. *Analytical and Bioanalytical Chemistry*, **2014**, 406, 3919-27	4.4	65
20	Receptor-mediated interactions between colloidal gold nanoparticles and human umbilical vein endothelial cells. *Small*, **2011**, 7, 388-94	11	47
19	Laser-induced damage and recovery of plasmonically targeted human endothelial cells. *Nano Letters*, **2011**, 11, 1358-63	11.5	44
18	A systematic comparison of different techniques to determine the zeta potential of silica nanoparticles in biological medium. *Analytical Methods*, **2015**, 7, 9835-9843	3.2	38
17	Determination of size- and number-based concentration of silica nanoparticles in a complex biological matrix by online techniques. *Analytical Chemistry*, **2015**, 87, 5482-5	7.8	38
16	A comparison of techniques for size measurement of nanoparticles in cell culture medium. *Analytical Methods*, **2016**, 8, 5272-5282	3.2	37
15	Programmed assembly of peptide-functionalized gold nanoparticles on DNA templates. *Langmuir*, **2010**, 26, 13760-2	4	33
14	Diacetylene-containing ligand as a new capping agent for the preparation of water-soluble colloidal nanoparticles of remarkable stability. *Langmuir*, **2010**, 26, 7072-7	4	25
13	Controlling the three-dimensional morphology of nanocrystals. *CrystEngComm*, **2010**, 12, 4312	3.3	25
12	High Optical Nonlinearity of Nematic Liquid Crystals Doped with Gold Nanoparticles. *Journal of Physical Chemistry C*, **2012**, 116, 12934-12939	3.8	23
11	The accurate determination of number concentration of inorganic nanoparticles using spICP-MS with the dynamic mass flow approach. *Journal of Analytical Atomic Spectrometry*, **2020**, 35, 1832-1839	3.7	22
10	Reference materials and representative test materials to develop nanoparticle characterization methods: the NanoChOp project case. *Frontiers in Chemistry*, **2015**, 3, 56	5	19
9	Nanoparticles for inhibition of in vitro tumour angiogenesis: synergistic actions of ligand function and laser irradiation. *Biomaterials Science*, **2015**, 3, 733-41	7.4	19

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8	Number Concentration of Gold Nanoparticles in Suspension: SAXS and spICPMS as Traceable Methods Compared to Laboratory Methods. *Nanomaterials*, **2019**, 9,	5.4	15
7	Measuring the relative concentration of particle populations using differential centrifugal sedimentation. *Analytical Methods*, **2018**, 10, 2647-2657	3.2	15
6	Sticky Measurement Problem: Number Concentration of Agglomerated Nanoparticles. *Langmuir*, **2019**, 35, 4927-4935	4	13
5	Label-free monitoring of the nanoparticle surface modification effects on cellular uptake, trafficking and toxicity. *Toxicology Research*, **2015**, 4, 169-176	2.6	9
4	Changes in silica nanoparticles upon internalisation by cells: size, aggregation/agglomeration state, mass- and number-based concentrations. *Toxicology Research*, **2018**, 7, 172-181	2.6	4
3	Single particle inductively coupled plasma mass spectrometry (spICP-MS) **2020**, 65-77		4
2	An insight into the determination of size and number concentration of silver nanoparticles in blood using single particle ICP-MS (spICP-MS): feasibility of application to samples relevant to in vivo toxicology studies. *Journal of Analytical Atomic Spectrometry*, **2021**, 36, 1180-1192	3.7	3
1	Characterisation of inorganic nanomaterials in complex samples by hyphenated field-flow fractionation. *Comprehensive Analytical Chemistry*, **2021**, 93, 103-119	1.9	1