Olesja M Bondarenko

List of Publications by Year in descending order

34 papers	3,018 citations	279798 23 h-index	377865 34 g-index
41 all docs	41 docs citations	41 times ranked	5450 citing authors

#	Article	IF	Citations
1	Toxicity of Ag, CuO and ZnO nanoparticles to selected environmentally relevant test organisms and mammalian cells in vitro: a critical review. Archives of Toxicology, 2013, 87, 1181-1200.	4.2	1,016
2	Mechanisms of toxic action of Ag, ZnO and CuO nanoparticles to selected ecotoxicological test organisms and mammalian cells in vitro: A comparative review. Nanotoxicology, 2014, 8, 57-71.	3.0	297
3	Particle-Cell Contact Enhances Antibacterial Activity of Silver Nanoparticles. PLoS ONE, 2013, 8, e64060.	2.5	208
4	Sub-toxic effects of CuO nanoparticles on bacteria: Kinetics, role of Cu ions and possible mechanisms of action. Environmental Pollution, 2012, 169, 81-89.	7.5	180
5	Profiling of the reactive oxygen species-related ecotoxicity of CuO, ZnO, TiO2, silver and fullerene nanoparticles using a set of recombinant luminescent Escherichia coli strains: differentiating the impact of particles and solubilised metals. Analytical and Bioanalytical Chemistry, 2010, 398, 701-716.	3.7	175
6	Hazard evaluation of polystyrene nanoplastic with nine bioassays did not show particle-specific acute toxicity. Science of the Total Environment, 2020, 707, 136073.	8.0	100
7	A 3-dimensional human embryonic stem cell (hESC)-derived model to detect developmental neurotoxicity of nanoparticles. Archives of Toxicology, 2013, 87, 721-733.	4.2	90
8	Plasma membrane is the target of rapid antibacterial action of silver nanoparticles in Escherichia coli and Pseudomonas aeruginosa. International Journal of Nanomedicine, 2018, Volume 13, 6779-6790.	6.7	82
9	Multilaboratory evaluation of 15 bioassays for (eco)toxicity screening and hazard ranking of engineered nanomaterials: FP7 project NANOVALID. Nanotoxicology, 2016, 10, 1229-1242.	3.0	78
10	Nanotoxicology and nanomedicine: The Yin and Yang of nano-bio interactions for the new decade. Nano Today, 2021, 39, 101184.	11.9	67
11	Antimicrobial potency of differently coated 10 and 50â€¯nm silver nanoparticles against clinically relevant bacteria Escherichia coli and Staphylococcus aureus. Colloids and Surfaces B: Biointerfaces, 2018, 170, 401-410.	5.0	64
12	Macrophage sensing of single-walled carbon nanotubes via Toll-like receptors. Scientific Reports, 2018, 8, 1115.	3.3	62
13	Macrophage activation status determines the internalization of mesoporous silica particles of different sizes: Exploring the role of different pattern recognition receptors. Biomaterials, 2017, 121, 28-40.	11.4	58
14	LuxCDABEâ€”Transformed Constitutively Bioluminescent Escherichia coli for Toxicity Screening: Comparison with Naturally Luminous Vibrio fischeri. Sensors, 2011, 11, 7865-7878.	3.8	54
15	Bioavailability of Cd, Zn and Hg in Soil to Nine Recombinant Luminescent Metal Sensor Bacteria. Sensors, 2008, 8, 6899-6923.	3.8	53
16	Bacterial polysaccharide levan as stabilizing, non-toxic and functional coating material for microelement-nanoparticles. Carbohydrate Polymers, 2016, 136, 710-720.	10.2	53
17	The Effect of Composition of Different Ecotoxicological Test Media on Free and Bioavailable Copper from CuSO4 and CuO Nanoparticles: Comparative Evidence from a Cu-Selective Electrode and a Cu-Biosensor. Sensors, 2011, 11, 10502-10521.	3.8	45
18	https://www.altex.org/index.php/altex/article/view/1339. ALTEX: Alternatives To Animal Experimentation, 2019, 36, 682-699.	1.5	42

#	Article	IF	Citations
19	Antimicrobial Activity of Polyoxometalate Ionic Liquids against Clinically Relevant Pathogens. ChemPlusChem, 2017, 82, 867-871.	2.8	41
20	Environmental hazard of oil shale combustion fly ash. Journal of Hazardous Materials, 2012, 229-230, 192-200.	12.4	38
21	Effects of Rhamnolipids from Pseudomonas aeruginosa DS10-129 on Luminescent Bacteria: Toxicity and Modulation of Cadmium Bioavailability. Microbial Ecology, 2010, 59, 588-600.	2.8	36
22	Neurotrophic Factors in Parkinsonâ€™s Disease: Clinical Trials, Open Challenges and Nanoparticle-Mediated Delivery to the Brain. Frontiers in Cellular Neuroscience, 2021, 15, 682597.	3.7	36
23	Pan-European inter-laboratory studies on a panel of in vitro cytotoxicity and pro-inflammation assays for nanoparticles. Archives of Toxicology, 2017, 91, 2315-2330.	4.2	35
24	Solubility-driven toxicity of CuO nanoparticles to Caco2 cells and Escherichia coli : Effect of sonication energy and test environment. Toxicology in Vitro, 2016, 36, 172-179.	2.4	20
25	Small-Molecule Inhibitors of the RNA M6A Demethylases FTO Potently Support the Survival of Dopamine Neurons. International Journal of Molecular Sciences, 2021, 22, 4537.	4.1	20
26	Metal-Containing Nano-Antimicrobials: Differentiating the Impact of Solubilized Metals and Particles. , 2012, , 253-290.		19
27	Surface carboxylation or PEGylation decreases CuO nanoparticlesâ€™ cytotoxicity to human cells in vitro without compromising their antibacterial properties. Archives of Toxicology, 2020, 94, 1561-1573.	4.2	14
28	Ligand-Doped Copper Oxo-hydroxide Nanoparticles are Effective Antimicrobials. Nanoscale Research Letters, 2018, 13, 111.	5.7	4
29	Antimicrobial activity of polyoxometalate ionic liquids (POM-ILs) against clinically relevant pathogens. Toxicology Letters, 2017, 280, S193.	0.8	3
30	Cubic Iron Coreâ€“Shell Nanoparticles Functionalized to Obtain High-Performance MRI Contrast Agents. Materials, 2022, 15, 2228.	2.9	3
31	Recent Discoveries in Nanoparticleâ€“Macrophage Interactions: In Vitro Models for Nanosafety Testing and Novel Nanomedical Approaches for Immunotherapy. Nanomaterials, 2021, 11, 2971.	4.1	2
32	â€œSafe-by-designâ€•and â€œtoxic-by designâ€; two approaches for design of novel functional nanomaterials. Toxicology Letters, 2014, 229, S11-S12.	0.8	0
33	Enzymatic synthesis and ways of further treatment of fructooligosaccharides and polymeric levan for prebiotic efficiency studies. New Biotechnology, 2016, 33, S122-S123.	4.4	0
34	Current challenges and coming opportunities in nanoparticle risk assessment. Frontiers of Nanoscience, 2020, 16, 353-371.	0.6	0