

Angela Ivask

List of Publications by Citations

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71
papers

7,207
citations

37
h-index

84
g-index

88
ext. papers

8,050
ext. citations

6.7
avg, IF

5.9
L-index

#	Paper	IF	Citations
71	Toxicity of nanosized and bulk ZnO, CuO and TiO ₂ to bacteria <i>Vibrio fischeri</i> and crustaceans <i>Daphnia magna</i> and <i>Thamnocephalus platyurus</i> . <i>Chemosphere</i> , 2008 , 71, 1308-16	8.4	1126
70	Toxicity of Ag, CuO and ZnO nanoparticles to selected environmentally relevant test organisms and mammalian cells in vitro: a critical review. <i>Archives of Toxicology</i> , 2013 , 87, 1181-200	5.8	827
69	Toxicity of nanoparticles of ZnO, CuO and TiO ₂ to yeast <i>Saccharomyces cerevisiae</i> . <i>Toxicology in Vitro</i> , 2009 , 23, 1116-22	3.6	464
68	Size-dependent toxicity of silver nanoparticles to bacteria, yeast, algae, crustaceans and mammalian cells in vitro. <i>PLoS ONE</i> , 2014 , 9, e102108	3.7	388
67	Toxicity mechanisms in <i>Escherichia coli</i> vary for silver nanoparticles and differ from ionic silver. <i>ACS Nano</i> , 2014 , 8, 374-86	16.7	343
66	Ecotoxicity of nanoparticles of CuO and ZnO in natural water. <i>Environmental Pollution</i> , 2010 , 158, 41-7	9.3	343
65	Mechanisms of toxic action of Ag, ZnO and CuO nanoparticles to selected ecotoxicological test organisms and mammalian cells in vitro: a comparative review. <i>Nanotoxicology</i> , 2014 , 8 Suppl 1, 57-71	5.3	247
64	Biotests and Biosensors for Ecotoxicology of Metal Oxide Nanoparticles: A Minireview. <i>Sensors</i> , 2008 , 8, 5153-5170	3.8	176
63	Particle-cell contact enhances antibacterial activity of silver nanoparticles. <i>PLoS ONE</i> , 2013 , 8, e64060	3.7	175
62	Sub-toxic effects of CuO nanoparticles on bacteria: kinetics, role of Cu ions and possible mechanisms of action. <i>Environmental Pollution</i> , 2012 , 169, 81-9	9.3	157
61	Photocatalytic antibacterial activity of nano-TiO ₂ (anatase)-based thin films: effects on <i>Escherichia coli</i> cells and fatty acids. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2015 , 142, 178-85	6.7	151
60	Toxicity of 11 Metal Oxide Nanoparticles to Three Mammalian Cell Types In Vitro. <i>Current Topics in Medicinal Chemistry</i> , 2015 , 15, 1914-29	3	151
59	Profiling of the reactive oxygen species-related ecotoxicity of CuO, ZnO, TiO ₂ , silver and fullerene nanoparticles using a set of recombinant luminescent <i>Escherichia coli</i> strains: differentiating the impact of particles and solubilised metals. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 398, 701-16	4.4	150
58	A suite of recombinant luminescent bacterial strains for the quantification of bioavailable heavy metals and toxicity testing. <i>BMC Biotechnology</i> , 2009 , 9, 41	3.5	143
57	Construction and use of specific luminescent recombinant bacterial sensors for the assessment of bioavailable fraction of cadmium, zinc, mercury and chromium in the soil. <i>Soil Biology and Biochemistry</i> , 2002 , 34, 1439-1447	7.5	130
56	Mapping the dawn of nanoecotoxicological research. <i>Accounts of Chemical Research</i> , 2013 , 46, 823-33	24.3	126
55	Detection of bioavailable heavy metals in EILATox-Oregon samples using whole-cell luminescent bacterial sensors in suspension or immobilized onto fibre-optic tips. <i>Journal of Applied Toxicology</i> , 2004 , 24, 333-42	4.1	119

54	Toxicity of metal oxide nanoparticles in <i>Escherichia coli</i> correlates with conduction band and hydration energies. <i>Environmental Science & Technology</i> , 2015 , 49, 1105-12	10.3	111
53	NanoE-Tox: New and in-depth database concerning ecotoxicity of nanomaterials. <i>Beilstein Journal of Nanotechnology</i> , 2015 , 6, 1788-804	3	93
52	Cu Nanoparticles Have Different Impacts in <i>Escherichia coli</i> and <i>Lactobacillus brevis</i> than Their Microsized and Ionic Analogues. <i>ACS Nano</i> , 2015 , 9, 7215-25	16.7	92
51	Fibre-optic bacterial biosensors and their application for the analysis of bioavailable Hg and As in soils and sediments from Aznalcollar mining area in Spain. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 1396-402	11.8	85
50	Propidium iodide staining underestimates viability of adherent bacterial cells. <i>Scientific Reports</i> , 2019 , 9, 6483	4.9	84
49	Recombinant luminescent bacterial sensors for the measurement of bioavailability of cadmium and lead in soils polluted by metal smelters. <i>Chemosphere</i> , 2004 , 55, 147-56	8.4	81
48	Detection of organomercurials with sensor bacteria. <i>Analytical Chemistry</i> , 2001 , 73, 5168-71	7.8	78
47	Interplay of different transporters in the mediation of divalent heavy metal resistance in <i>Pseudomonas putida</i> KT2440. <i>Journal of Bacteriology</i> , 2008 , 190, 2680-9	3.5	77
46	A novel method for comparison of biocidal properties of nanomaterials to bacteria, yeasts and algae. <i>Journal of Hazardous Materials</i> , 2015 , 286, 75-84	12.8	66
45	DNA melting and genotoxicity induced by silver nanoparticles and graphene. <i>Chemical Research in Toxicology</i> , 2015 , 28, 1023-35	4	60
44	Multilaboratory evaluation of 15 bioassays for (eco)toxicity screening and hazard ranking of engineered nanomaterials: FP7 project NANOVALID. <i>Nanotoxicology</i> , 2016 , 10, 1229-42	5.3	59
43	Analysis of bioavailable phenols from natural samples by recombinant luminescent bacterial sensors. <i>Chemosphere</i> , 2006 , 64, 1910-9	8.4	56
42	Biotests and biosensors in ecotoxicological risk assessment of field soils polluted with zinc, lead, and cadmium. <i>Environmental Toxicology and Chemistry</i> , 2005 , 24, 2973-82	3.8	52
41	Bacterial polysaccharide levan as stabilizing, non-toxic and functional coating material for microelement-nanoparticles. <i>Carbohydrate Polymers</i> , 2016 , 136, 710-20	10.3	44
40	Genome-wide bacterial toxicity screening uncovers the mechanisms of toxicity of a cationic polystyrene nanomaterial. <i>Environmental Science & Technology</i> , 2012 , 46, 2398-405	10.3	44
39	Bioavailability of Cd, Zn and Hg in Soil to Nine Recombinant Luminescent Metal Sensor Bacteria. <i>Sensors</i> , 2008 , 8, 6899-6923	3.8	44
38	LuxCDABE--transformed constitutively bioluminescent <i>Escherichia coli</i> for toxicity screening: comparison with naturally luminous <i>Vibrio fischeri</i> . <i>Sensors</i> , 2011 , 11, 7865-78	3.8	43
37	The effect of composition of different ecotoxicological test media on free and bioavailable copper from CuSO ₄ and CuO nanoparticles: comparative evidence from a Cu-selective electrode and a Cu-biosensor. <i>Sensors</i> , 2011 , 11, 10502-21	3.8	43

36	Proactive Approach for Safe Use of Antimicrobial Coatings in Healthcare Settings: Opinion of the COST Action Network AMiCl. <i>International Journal of Environmental Research and Public Health</i> , 2017 , 14,	4.6	42
35	Antimicrobial potency of differently coated 10 and 50 nm silver nanoparticles against clinically relevant bacteria <i>Escherichia coli</i> and <i>Staphylococcus aureus</i> . <i>Colloids and Surfaces B: Biointerfaces</i> , 2018 , 170, 401-410	6	41
34	Rapid in situ assessment of Cu-ion mediated effects and antibacterial efficacy of copper surfaces. <i>Scientific Reports</i> , 2018 , 8, 8172	4.9	33
33	Dissolution of silver nanowires and nanospheres dictates their toxicity to <i>Escherichia coli</i> . <i>BioMed Research International</i> , 2013 , 2013, 819252	3	32
32	Effects of rhamnolipids from <i>Pseudomonas aeruginosa</i> DS10-129 on luminescent bacteria: toxicity and modulation of cadmium bioavailability. <i>Microbial Ecology</i> , 2010 , 59, 588-600	4.4	32
31	Lead and Cu in contaminated urban soils: extraction with chemical reagents and bioluminescent bacteria and yeast. <i>Science of the Total Environment</i> , 2005 , 350, 194-203	10.2	31
30	Mechanisms of toxic action of silver nanoparticles in the protozoan <i>Tetrahymena thermophila</i> : From gene expression to phenotypic events. <i>Environmental Pollution</i> , 2017 , 225, 481-489	9.3	29
29	Synthesis and in vitro properties of iron oxide nanoparticles grafted with brushed phosphorylcholine and polyethylene glycol. <i>Polymer Chemistry</i> , 2016 , 7, 1931-1944	4.9	29
28	Bioavailability of Cd in 110 polluted topsoils to recombinant bioluminescent sensor bacteria: effect of soil particulate matter. <i>Journal of Soils and Sediments</i> , 2011 , 11, 231-237	3.4	27
27	A Molecular Probe for the Detection of Polar Lipids in Live Cells. <i>PLoS ONE</i> , 2016 , 11, e0161557	3.7	26
26	Pan-European inter-laboratory studies on a panel of in vitro cytotoxicity and pro-inflammation assays for nanoparticles. <i>Archives of Toxicology</i> , 2017 , 91, 2315-2330	5.8	25
25	Selection of resistance by antimicrobial coatings in the healthcare setting. <i>Journal of Hospital Infection</i> , 2020 , 106, 115-125	6.9	25
24	Environmental hazard of oil shale combustion fly ash. <i>Journal of Hazardous Materials</i> , 2012 , 229-230, 192-200	12.8	25
23	Dual-Action Cancer Therapy with Targeted Porous Silicon Nanovectors. <i>Small</i> , 2017 , 13, 1701201	11	24
22	UVA-induced antimicrobial activity of ZnO/Ag nanocomposite covered surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018 , 169, 222-232	6	24
21	Gold Nanocluster-Mediated Cellular Death under Electromagnetic Radiation. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 41159-41167	9.5	24
20	Uptake and transcytosis of functionalized superparamagnetic iron oxide nanoparticles in an in vitro blood brain barrier model. <i>Biomaterials Science</i> , 2018 , 6, 314-323	7.4	24
19	Extracellular conversion of silver ions into silver nanoparticles by protozoan <i>Tetrahymena thermophila</i> . <i>Environmental Sciences: Processes and Impacts</i> , 2013 , 15, 244-50	4.3	23

18	Single Cell Level Quantification of Nanoparticle-Cell Interactions Using Mass Cytometry. <i>Analytical Chemistry</i> , 2017 , 89, 8228-8232	7.8	21
17	Complete transformation of ZnO and CuO nanoparticles in culture medium and lymphocyte cells during toxicity testing. <i>Nanotoxicology</i> , 2017 , 11, 150-156	5.3	20
16	Methodologies and approaches for the analysis of cell-nanoparticle interactions. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2018 , 10, e1486	9.2	20
15	Cellular binding, uptake and biotransformation of silver nanoparticles in human T lymphocytes. <i>Nature Nanotechnology</i> , 2021 , 16, 926-932	28.7	18
14	Metal-Containing Nano-Antimicrobials: Differentiating the Impact of Solubilized Metals and Particles 2012 , 253-290		17
13	Analysis of sorption and bioavailability of different species of mercury on model soil components using XAS techniques and sensor bacteria. <i>Analytical and Bioanalytical Chemistry</i> , 2005 , 382, 1541-8	4.4	17
12	Quantitative multimodal analyses of silver nanoparticle-cell interactions: Implications for cytotoxicity. <i>NanoImpact</i> , 2016 , 1, 29-38	5.6	17
11	Potential ecotoxicological effects of antimicrobial surface coatings: a literature survey backed up by analysis of market reports. <i>PeerJ</i> , 2019 , 7, e6315	3.1	16
10	Sorption of silver nanoparticles to laboratory plastic during (eco)toxicological testing. <i>Nanotoxicology</i> , 2016 , 10, 385-90	5.3	16
9	Crossed flow microfluidics for high throughput screening of bioactive chemical-cell interactions. <i>Lab on A Chip</i> , 2017 , 17, 501-510	7.2	15
8	Microfluidic Cell Microarray Platform for High Throughput Analysis of Particle-Cell Interactions. <i>Analytical Chemistry</i> , 2018 , 90, 4338-4347	7.8	15
7	The Use of Microfluidics in Cytotoxicity and Nanotoxicity Experiments. <i>Micromachines</i> , 2017 , 8, 124	3.3	15
6	Selective antibiofilm properties and biocompatibility of nano-ZnO and nano-ZnO/Ag coated surfaces. <i>Scientific Reports</i> , 2020 , 10, 13478	4.9	15
5	Comparison of Mechanical and Antibacterial Properties of TiO ₂ /Ag Ceramics and Ti6Al4V-TiO ₂ /Ag Composite Materials Using Combined SLM-SPS Techniques. <i>Metals</i> , 2019 , 9, 874	2.3	14
4	Optimization of binding B-lymphocytes in a microfluidic channel: surface modification, stasis time and shear response. <i>Biofabrication</i> , 2017 , 10, 014101	10.5	10
3	Ligand-Doped Copper Oxo-hydroxide Nanoparticles are Effective Antimicrobials. <i>Nanoscale Research Letters</i> , 2018 , 13, 111	5	4
2	Quantitative Measurement of Cell-Nanoparticle Interactions Using Mass Cytometry. <i>Methods in Molecular Biology</i> , 2019 , 1989, 227-241	1.4	3
1	Antimicrobial Activity of Commercial Photocatalytic SaniTisel Window Glass. <i>Catalysts</i> , 2022 , 12, 197	4	0

