

Angela Ivask

List of Publications by Year in descending order

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75
papers

8,868
citations

76196

40
h-index

71532

76
g-index

88
all docs

88
docs citations

88
times ranked

11839
citing authors

#	ARTICLE	IF	CITATIONS
1	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, 1308-1316.	4.2	1,303
2	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, 1181-1200.	1.9	1,016
3	Toxicity of nanoparticles of ZnO, CuO and TiO ₂ to yeast <i>Saccharomyces cerevisiae</i> . <i>Toxicology in Vitro</i> , 2009, 23, 1116-1122.	1.1	531
4	Size-Dependent Toxicity of Silver Nanoparticles to Bacteria, Yeast, Algae, Crustaceans and Mammalian Cells In Vitro. <i>PLoS ONE</i> , 2014, 9, e102108.	1.1	465
5	Toxicity Mechanisms in <i>Escherichia coli</i> Vary for Silver Nanoparticles and Differ from Ionic Silver. <i>ACS Nano</i> , 2014, 8, 374-386.	7.3	458
6	Ecotoxicity of nanoparticles of CuO and ZnO in natural water. <i>Environmental Pollution</i> , 2010, 158, 41-47.	3.7	384
7	Mechanisms of toxic action of Ag, ZnO and CuO nanoparticles to selected ecotoxicological test organisms and mammalian cells <i>in vitro</i> : A comparative review. <i>Nanotoxicology</i> , 2014, 8, 57-71.	1.6	297
8	Particle-Cell Contact Enhances Antibacterial Activity of Silver Nanoparticles. <i>PLoS ONE</i> , 2013, 8, e64060.	1.1	208
9	Propidium iodide staining underestimates viability of adherent bacterial cells. <i>Scientific Reports</i> , 2019, 9, 6483.	1.6	203
10	Biotests and Biosensors for Ecotoxicology of Metal Oxide Nanoparticles: A Minireview. <i>Sensors</i> , 2008, 8, 5153-5170.	2.1	193
11	Toxicity of 11 Metal Oxide Nanoparticles to Three Mammalian Cell Types <i>In Vitro</i> . <i>Current Topics in Medicinal Chemistry</i> , 2015, 15, 1914-1929.	1.0	190
12	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, 178-185.	1.7	190
13	Sub-toxic effects of CuO nanoparticles on bacteria: Kinetics, role of Cu ions and possible mechanisms of action. <i>Environmental Pollution</i> , 2012, 169, 81-89.	3.7	180
14	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, 701-716.	1.9	175
15	A suite of recombinant luminescent bacterial strains for the quantification of bioavailable heavy metals and toxicity testing. <i>BMC Biotechnology</i> , 2009, 9, 41.	1.7	164
16	Mapping the Dawn of Nanoecotoxicological Research. <i>Accounts of Chemical Research</i> , 2013, 46, 823-833.	7.6	143
17	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.	4.2	138
18	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, 333-342.	1.4	131

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19	Toxicity of Metal Oxide Nanoparticles in <i>Escherichia coli</i> Correlates with Conduction Band and Hydration Energies. <i>Environmental Science & Technology</i> , 2015, 49, 1105-1112.	4.6	127
20	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, 7215-7225.	7.3	120
21	NanoE-Tox: New and in-depth database concerning ecotoxicity of nanomaterials. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 1788-1804.	1.5	116
22	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, 2680-2689.	1.0	105
23	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, 1396-1402.	5.3	96
24	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.	6.5	94
25	Recombinant luminescent bacterial sensors for the measurement of bioavailability of cadmium and lead in soils polluted by metal smelters. <i>Chemosphere</i> , 2004, 55, 147-156.	4.2	93
26	Detection of Organomercurials with Sensor Bacteria. <i>Analytical Chemistry</i> , 2001, 73, 5168-5171.	3.2	88
27	Multilaboratory evaluation of 15 bioassays for (eco)toxicity screening and hazard ranking of engineered nanomaterials: FP7 project NANOVALID. <i>Nanotoxicology</i> , 2016, 10, 1229-1242.	1.6	78
28	DNA Melting and Genotoxicity Induced by Silver Nanoparticles and Graphene. <i>Chemical Research in Toxicology</i> , 2015, 28, 1023-1035.	1.7	73
29	Analysis of bioavailable phenols from natural samples by recombinant luminescent bacterial sensors. <i>Chemosphere</i> , 2006, 64, 1910-1919.	4.2	65
30	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.	2.5	64
31	Cellular binding, uptake and biotransformation of silver nanoparticles in human T lymphocytes. <i>Nature Nanotechnology</i> , 2021, 16, 926-932.	15.6	62
32	Proactive Approach for Safe Use of Antimicrobial Coatings in Healthcare Settings: Opinion of the COST Action Network AMiCI. <i>International Journal of Environmental Research and Public Health</i> , 2017, 14, 366.	1.2	58
33	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.	2.2	56
34	LuxCDABE Transformed Constitutively Bioluminescent <i>Escherichia coli</i> for Toxicity Screening: Comparison with Naturally Luminous <i>Vibrio fischeri</i> . <i>Sensors</i> , 2011, 11, 7865-7878.	2.1	54
35	Genome-Wide Bacterial Toxicity Screening Uncovers the Mechanisms of Toxicity of a Cationic Polystyrene Nanomaterial. <i>Environmental Science & Technology</i> , 2012, 46, 2398-2405.	4.6	54
36	Bioavailability of Cd, Zn and Hg in Soil to Nine Recombinant Luminescent Metal Sensor Bacteria. <i>Sensors</i> , 2008, 8, 6899-6923.	2.1	53

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37	Bacterial polysaccharide levan as stabilizing, non-toxic and functional coating material for microelement-nanoparticles. <i>Carbohydrate Polymers</i> , 2016, 136, 710-720.	5.1	53
38	Rapid in situ assessment of Cu-ion mediated effects and antibacterial efficacy of copper surfaces. <i>Scientific Reports</i> , 2018, 8, 8172.	1.6	48
39	Selection of resistance by antimicrobial coatings in the healthcare setting. <i>Journal of Hospital Infection</i> , 2020, 106, 115-125.	1.4	48
40	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, 10502-10521.	2.1	45
41	Potential ecotoxicological effects of antimicrobial surface coatings: a literature survey backed up by analysis of market reports. <i>PeerJ</i> , 2019, 7, e6315.	0.9	42
42	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.	3.7	41
43	Dissolution of Silver Nanowires and Nanospheres Dictates Their Toxicity to <i>Escherichia coli</i> . <i>BioMed Research International</i> , 2013, 2013, 1-9.	0.9	40
44	Environmental hazard of oil shale combustion fly ash. <i>Journal of Hazardous Materials</i> , 2012, 229-230, 192-200.	6.5	38
45	UVA-induced antimicrobial activity of ZnO/Ag nanocomposite covered surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 169, 222-232.	2.5	37
46	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.	1.4	36
47	Methodologies and approaches for the analysis of cell-nanoparticle interactions. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2018, 10, e1486.	3.3	36
48	Uptake and transcytosis of functionalized superparamagnetic iron oxide nanoparticles in an <i>in vitro</i> blood brain barrier model. <i>Biomaterials Science</i> , 2018, 6, 314-323.	2.6	36
49	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.	3.9	35
50	Pan-European inter-laboratory studies on a panel of <i>in vitro</i> cytotoxicity and pro-inflammation assays for nanoparticles. <i>Archives of Toxicology</i> , 2017, 91, 2315-2330.	1.9	35
51	Selective antibiofilm properties and biocompatibility of nano-ZnO and nano-ZnO/Ag coated surfaces. <i>Scientific Reports</i> , 2020, 10, 13478.	1.6	35
52	Gold Nanocluster-Mediated Cellular Death under Electromagnetic Radiation. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 41159-41167.	4.0	33
53	Synthesis and <i>in vitro</i> properties of iron oxide nanoparticles grafted with brushed phosphorylcholine and polyethylene glycol. <i>Polymer Chemistry</i> , 2016, 7, 1931-1944.	1.9	32
54	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.	1.5	31

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55	Dual-Action Cancer Therapy with Targeted Porous Silicon Nanovectors. <i>Small</i> , 2017, 13, 1701201.	5.2	31
56	Single Cell Level Quantification of Nanoparticle-Cell Interactions Using Mass Cytometry. <i>Analytical Chemistry</i> , 2017, 89, 8228-8232.	3.2	30
57	A Molecular Probe for the Detection of Polar Lipids in Live Cells. <i>PLoS ONE</i> , 2016, 11, e0161557.	1.1	29
58	Extracellular conversion of silver ions into silver nanoparticles by protozoan <i>Tetrahymena thermophila</i> . <i>Environmental Sciences: Processes and Impacts</i> , 2013, 15, 244-250.	1.7	26
59	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.	1.0	24
60	Complete transformation of ZnO and CuO nanoparticles in culture medium and lymphocyte cells during toxicity testing. <i>Nanotoxicology</i> , 2017, 11, 150-156.	1.6	23
61	The Use of Microfluidics in Cytotoxicity and Nanotoxicity Experiments. <i>Micromachines</i> , 2017, 8, 124.	1.4	22
62	Quantitative multimodal analyses of silver nanoparticle-cell interactions: Implications for cytotoxicity. <i>NanoImpact</i> , 2016, 1, 29-38.	2.4	21
63	Sorption of silver nanoparticles to laboratory plastic during (eco)toxicological testing. <i>Nanotoxicology</i> , 2016, 10, 385-390.	1.6	20
64	Crossed flow microfluidics for high throughput screening of bioactive chemical-cell interactions. <i>Lab on A Chip</i> , 2017, 17, 501-510.	3.1	20
65	Metal-Containing Nano-Antimicrobials: Differentiating the Impact of Solubilized Metals and Particles. , 2012, , 253-290.		19
66	Microfluidic Cell Microarray Platform for High Throughput Analysis of Particle-Cell Interactions. <i>Analytical Chemistry</i> , 2018, 90, 4338-4347.	3.2	19
67	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, 1541-1548.	1.9	17
68	Optimization of binding B-lymphocytes in a microfluidic channel: surface modification, stasis time and shear response. <i>Biofabrication</i> , 2018, 10, 014101.	3.7	11
69	Preparation and Characterization of Photocatalytically Active Antibacterial Surfaces Covered with Acrylic Matrix Embedded Nano-ZnO and Nano-ZnO/Ag. <i>Nanomaterials</i> , 2021, 11, 3384.	1.9	6
70	Antimicrobial Activity of Commercial Photocatalytic SaniTise [®] Window Glass. <i>Catalysts</i> , 2022, 12, 197.	1.6	5
71	Ligand-Doped Copper Oxo-hydroxide Nanoparticles are Effective Antimicrobials. <i>Nanoscale Research Letters</i> , 2018, 13, 111.	3.1	4
72	Quantitative Measurement of Cell-Nanoparticle Interactions Using Mass Cytometry. <i>Methods in Molecular Biology</i> , 2019, 1989, 227-241.	0.4	4

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73	Bioavailability and toxicity of copper oxide and silver nanoparticles to bacteria, yeasts, crustaceans and protozoa. Toxicology Letters, 2011, 205, S284-S285.	0.4	1
74	New C-type lectin-like protein and 5'â€²-nucleotidase from Vipera lebetina snake venom. Toxicology Letters, 2014, 229, S234.	0.4	0
75	â€œSafe-by-designâ€ and â€œtoxic-by designâ€; two approaches for design of novel functional nanomaterials. Toxicology Letters, 2014, 229, S11-S12.	0.4	0