Angela Ivask

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Antimicrobial Activity of Commercial Photocatalytic SaniTise Window Glass. *Catalysts*, **2022**, 12, 197	4	0
70	Cellular binding, uptake and biotransformation of silver nanoparticles in human T lymphocytes. *Nature Nanotechnology*, **2021**, 16, 926-932	28.7	18
69	Selection of resistance by antimicrobial coatings in the healthcare setting. *Journal of Hospital Infection*, **2020**, 106, 115-125	6.9	25
68	Selective antibiofilm properties and biocompatibility of nano-ZnO and nano-ZnO/Ag coated surfaces. *Scientific Reports*, **2020**, 10, 13478	4.9	15
67	Comparison of Mechanical and Antibacterial Properties of TiO2/Ag Ceramics and Ti6Al4V-TiO2/Ag Composite Materials Using Combined SLM-SPS Techniques. *Metals*, **2019**, 9, 874	2.3	14
66	Quantitative Measurement of Cell-Nanoparticle Interactions Using Mass Cytometry. *Methods in Molecular Biology*, **2019**, 1989, 227-241	1.4	3
65	Propidium iodide staining underestimates viability of adherent bacterial cells. *Scientific Reports*, **2019**, 9, 6483	4.9	84
64	Potential ecotoxicological effects of antimicrobial surface coatings: a literature survey backed up by analysis of market reports. *PeerJ*, **2019**, 7, e6315	3.1	16
63	Microfluidic Cell Microarray Platform for High Throughput Analysis of Particle-Cell Interactions. *Analytical Chemistry*, **2018**, 90, 4338-4347	7.8	15
62	Methodologies and approaches for the analysis of cell-nanoparticle interactions. *Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology*, **2018**, 10, e1486	9.2	20
61	Ligand-Doped Copper Oxo-hydroxide Nanoparticles are Effective Antimicrobials. *Nanoscale Research Letters*, **2018**, 13, 111	5	4
60	UVA-induced antimicrobial activity of ZnO/Ag nanocomposite covered surfaces. *Colloids and Surfaces B: Biointerfaces*, **2018**, 169, 222-232	6	24
59	Antimicrobial potency of differently coated 10 and 50 nm silver nanoparticles against clinically relevant bacteria Escherichia coli and Staphylococcus aureus. *Colloids and Surfaces B: Biointerfaces*, **2018**, 170, 401-410	6	41
58	Uptake and transcytosis of functionalized superparamagnetic iron oxide nanoparticles in an in vitro blood brain barrier model. *Biomaterials Science*, **2018**, 6, 314-323	7.4	24
57	Rapid in situ assessment of Cu-ion mediated effects and antibacterial efficacy of copper surfaces. *Scientific Reports*, **2018**, 8, 8172	4.9	33
56	Complete transformation of ZnO and CuO nanoparticles in culture medium and lymphocyte cells during toxicity testing. *Nanotoxicology*, **2017**, 11, 150-156	5.3	20
55	Dual-Action Cancer Therapy with Targeted Porous Silicon Nanovectors. *Small*, **2017**, 13, 1701201	11	24

54	Mechanisms of toxic action of silver nanoparticles in the protozoan Tetrahymena thermophila: From gene expression to phenotypic events. *Environmental Pollution*, **2017**, 225, 481-489	9.3	29
53	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	5.8	25
52	Crossed flow microfluidics for high throughput screening of bioactive chemical-cell interactions. *Lab on A Chip*, **2017**, 17, 501-510	7.2	15
51	Gold Nanocluster-Mediated Cellular Death under Electromagnetic Radiation. *ACS Applied Materials & Interfaces*, **2017**, 9, 41159-41167	9.5	24
50	Single Cell Level Quantification of Nanoparticle-Cell Interactions Using Mass Cytometry. *Analytical Chemistry*, **2017**, 89, 8228-8232	7.8	21
49	The Use of Microfluidics in Cytotoxicity and Nanotoxicity Experiments. *Micromachines*, **2017**, 8, 124	3.3	15
48	Proactive Approach for Safe Use of Antimicrobial Coatings in Healthcare Settings: Opinion of the COST Action Network AMiCI. *International Journal of Environmental Research and Public Health*, **2017**, 14,	4.6	42
47	Optimization of binding B-lymphocytes in a microfluidic channel: surface modification, stasis time and shear response. *Biofabrication*, **2017**, 10, 014101	10.5	10
46	Bacterial polysaccharide levan as stabilizing, non-toxic and functional coating material for microelement-nanoparticles. *Carbohydrate Polymers*, **2016**, 136, 710-20	10.3	44
45	Multilaboratory evaluation of 15 bioassays for (eco)toxicity screening and hazard ranking of engineered nanomaterials: FP7 project NANOVALID. *Nanotoxicology*, **2016**, 10, 1229-42	5.3	59
44	Synthesis and in vitro properties of iron oxide nanoparticles grafted with brushed phosphorylcholine and polyethylene glycol. *Polymer Chemistry*, **2016**, 7, 1931-1944	4.9	29
43	Sorption of silver nanoparticles to laboratory plastic during (eco)toxicological testing. *Nanotoxicology*, **2016**, 10, 385-90	5.3	16
42	A Molecular Probe for the Detection of Polar Lipids in Live Cells. *PLoS ONE*, **2016**, 11, e0161557	3.7	26
41	Quantitative multimodal analyses of silver nanoparticle-cell interactions: Implications for cytotoxicity. *NanoImpact*, **2016**, 1, 29-38	5.6	17
40	Toxicity of metal oxide nanoparticles in Escherichia coli correlates with conduction band and hydration energies. *Environmental Science & Technology*, **2015**, 49, 1105-12	10.3	111
39	Cu Nanoparticles Have Different Impacts in Escherichia coli and Lactobacillus brevis than Their Microsized and Ionic Analogues. *ACS Nano*, **2015**, 9, 7215-25	16.7	92
38	DNA melting and genotoxicity induced by silver nanoparticles and graphene. *Chemical Research in Toxicology*, **2015**, 28, 1023-35	4	60
37	Photocatalytic antibacterial activity of nano-TiO2 (anatase)-based thin films: effects on Escherichia coli cells and fatty acids. *Journal of Photochemistry and Photobiology B: Biology*, **2015**, 142, 178-85	6.7	151

36	NanoE-Tox: New and in-depth database concerning ecotoxicity of nanomaterials. *Beilstein Journal of Nanotechnology*, **2015**, 6, 1788-804	3	93
35	Toxicity of 11 Metal Oxide Nanoparticles to Three Mammalian Cell Types In Vitro. *Current Topics in Medicinal Chemistry*, **2015**, 15, 1914-29	3	151
34	A novel method for comparison of biocidal properties of nanomaterials to bacteria, yeasts and algae. *Journal of Hazardous Materials*, **2015**, 286, 75-84	12.8	66
33	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 Suppl 1, 57-71	5.3	247
32	Toxicity mechanisms in Escherichia coli vary for silver nanoparticles and differ from ionic silver. *ACS Nano*, **2014**, 8, 374-86	16.7	343
31	Size-dependent toxicity of silver nanoparticles to bacteria, yeast, algae, crustaceans and mammalian cells in vitro. *PLoS ONE*, **2014**, 9, e102108	3.7	388
30	Extracellular conversion of silver ions into silver nanoparticles by protozoan Tetrahymena thermophila. *Environmental Sciences: Processes and Impacts*, **2013**, 15, 244-50	4.3	23
29	Mapping the dawn of nanoecotoxicological research. *Accounts of Chemical Research*, **2013**, 46, 823-33	24.3	126
28	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, 1181-200	5.8	827
27	Dissolution of silver nanowires and nanospheres dictates their toxicity to Escherichia coli. *BioMed Research International*, **2013**, 2013, 819252	3	32
26	Particle-cell contact enhances antibacterial activity of silver nanoparticles. *PLoS ONE*, **2013**, 8, e64060	3.7	175
25	Sub-toxic effects of CuO nanoparticles on bacteria: kinetics, role of Cu ions and possible mechanisms of action. *Environmental Pollution*, **2012**, 169, 81-9	9.3	157
24	Environmental hazard of oil shale combustion fly ash. *Journal of Hazardous Materials*, **2012**, 229-230, 192-200	12.8	25
23	Genome-wide bacterial toxicity screening uncovers the mechanisms of toxicity of a cationic polystyrene nanomaterial. *Environmental Science & Technology*, **2012**, 46, 2398-405	10.3	44
22	Metal-Containing Nano-Antimicrobials: Differentiating the Impact of Solubilized Metals and Particles **2012**, 253-290		17
21	LuxCDABE--transformed constitutively bioluminescent Escherichia coli for toxicity screening: comparison with naturally luminous Vibrio fischeri. *Sensors*, **2011**, 11, 7865-78	3.8	43
20	Bioavailability of Cd in 110 polluted topsoils to recombinant bioluminescent sensor bacteria: effect of soil particulate matter. *Journal of Soils and Sediments*, **2011**, 11, 231-237	3.4	27
19	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, 10502-21	3.8	43

18	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, 701-16	4.4	150
17	Effects of rhamnolipids from Pseudomonas aeruginosa DS10-129 on luminescent bacteria: toxicity and modulation of cadmium bioavailability. *Microbial Ecology*, **2010**, 59, 588-600	4.4	32
16	Ecotoxicity of nanoparticles of CuO and ZnO in natural water. *Environmental Pollution*, **2010**, 158, 41-7	9.3	343
15	A suite of recombinant luminescent bacterial strains for the quantification of bioavailable heavy metals and toxicity testing. *BMC Biotechnology*, **2009**, 9, 41	3.5	143
14	Toxicity of nanoparticles of ZnO, CuO and TiO2 to yeast Saccharomyces cerevisiae. *Toxicology in Vitro*, **2009**, 23, 1116-22	3.6	464
13	Toxicity of nanosized and bulk ZnO, CuO and TiO2 to bacteria Vibrio fischeri and crustaceans Daphnia magna and Thamnocephalus platyurus. *Chemosphere*, **2008**, 71, 1308-16	8.4	1126
12	Interplay of different transporters in the mediation of divalent heavy metal resistance in Pseudomonas putida KT2440. *Journal of Bacteriology*, **2008**, 190, 2680-9	3.5	77
11	Bioavailability of Cd, Zn and Hg in Soil to Nine Recombinant Luminescent Metal Sensor Bacteria. *Sensors*, **2008**, 8, 6899-6923	3.8	44
10	Biotests and Biosensors for Ecotoxicology of Metal Oxide Nanoparticles: A Minireview. *Sensors*, **2008**, 8, 5153-5170	3.8	176
9	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. *Biosensors and Bioelectronics*, **2007**, 22, 1396-402	11.8	85
8	Analysis of bioavailable phenols from natural samples by recombinant luminescent bacterial sensors. *Chemosphere*, **2006**, 64, 1910-9	8.4	56
7	Biotests and biosensors in ecotoxicological risk assessment of field soils polluted with zinc, lead, and cadmium. *Environmental Toxicology and Chemistry*, **2005**, 24, 2973-82	3.8	52
6	Lead and Cu in contaminated urban soils: extraction with chemical reagents and bioluminescent bacteria and yeast. *Science of the Total Environment*, **2005**, 350, 194-203	10.2	31
5	Analysis of sorption and bioavailability of different species of mercury on model soil components using XAS techniques and sensor bacteria. *Analytical and Bioanalytical Chemistry*, **2005**, 382, 1541-8	4.4	17
4	Detection of bioavailable heavy metals in EILATox-Oregon samples using whole-cell luminescent bacterial sensors in suspension or immobilized onto fibre-optic tips. *Journal of Applied Toxicology*, **2004**, 24, 333-42	4.1	119
3	Recombinant luminescent bacterial sensors for the measurement of bioavailability of cadmium and lead in soils polluted by metal smelters. *Chemosphere*, **2004**, 55, 147-56	8.4	81
2	Construction and use of specific luminescent recombinant bacterial sensors for the assessment of bioavailable fraction of cadmium, zinc, mercury and chromium in the soil. *Soil Biology and Biochemistry*, **2002**, 34, 1439-1447	7.5	130
1	Detection of organomercurials with sensor bacteria. *Analytical Chemistry*, **2001**, 73, 5168-71	7.8	78