

# Anze Zupanic

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

1,786  
citations

304602

22  
h-index

302012

39  
g-index

47  
all docs

47  
docs citations

47  
times ranked

2045  
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards treatment planning and treatment of deep-seated solid tumors by electrochemotherapy. <i>BioMedical Engineering OnLine</i> , 2010, 9, 10.	1.3	165
2	Electrochemotherapy: A New Technological Approach in Treatment of Metastases in the Liver. <i>Technology in Cancer Research and Treatment</i> , 2011, 10, 475-485.	0.8	159
3	Treatment planning of electroporation-based medical interventions: electrochemotherapy, gene electrotransfer and irreversible electroporation. <i>Physics in Medicine and Biology</i> , 2012, 57, 5425-5440.	1.6	107
4	The endothelial cytoskeleton as a target of electroporation-based therapies. <i>Molecular Cancer Therapeutics</i> , 2006, 5, 3145-3152.	1.9	106
5	Building and Applying Quantitative Adverse Outcome Pathway Models for Chemical Hazard and Risk Assessment. <i>Environmental Toxicology and Chemistry</i> , 2019, 38, 1850-1865.	2.2	105
6	Numerical analysis and thermographic investigation of induction heating. <i>International Journal of Heat and Mass Transfer</i> , 2010, 53, 3585-3591.	2.5	104
7	The influence of skeletal muscle anisotropy on electroporation: in vivo study and numerical modeling. <i>Medical and Biological Engineering and Computing</i> , 2010, 48, 637-648.	1.6	81
8	Robustness of Treatment Planning for Electrochemotherapy of Deep-Seated Tumors. <i>Journal of Membrane Biology</i> , 2010, 236, 147-153.	1.0	79
9	Flow cytometry combined with viSNE for the analysis of microbial biofilms and detection of microplastics. <i>Nature Communications</i> , 2016, 7, 11587.	5.8	73
10	Selenium Uptake and Methylation by the Microalga <i>Chlamydomonas reinhardtii</i> . <i>Environmental Science &amp; Technology</i> , 2016, 50, 711-720.	4.6	71
11	Numerical Modeling and Optimization of Electric Field Distribution in Subcutaneous Tumor Treated With Electrochemotherapy Using Needle Electrodes. <i>IEEE Transactions on Plasma Science</i> , 2008, 36, 1665-1672.	0.6	68
12	Approaches to Test the Neurotoxicity of Environmental Contaminants in the Zebrafish Model: From Behavior to Molecular Mechanisms. <i>Environmental Toxicology and Chemistry</i> , 2021, 40, 989-1006.	2.2	68
13	Patient-specific treatment planning of electrochemotherapy: Procedure design and possible pitfalls. <i>Bioelectrochemistry</i> , 2012, 87, 265-273.	2.4	63
14	Repeatability and Reproducibility of the RTgill-W1 Cell Line Assay for Predicting Fish Acute Toxicity. <i>Toxicological Sciences</i> , 2019, 169, 353-364.	1.4	52
15	Optimization of electrode position and electric pulse amplitude in electrochemotherapy. <i>Radiology and Oncology</i> , 2008, 42, .	0.6	43
16	Integrated Stochastic Model of DNA Damage Repair by Non-homologous End Joining and p53/p21-Mediated Early Senescence Signalling. <i>PLoS Computational Biology</i> , 2015, 11, e1004246.	1.5	39
17	Transcriptomics and proteomics show that selenium affects inflammation, cytoskeleton, and cancer pathways in human rectal biopsies. <i>FASEB Journal</i> , 2016, 30, 2812-2825.	0.2	39
18	Using MoS <sub>2</sub> Nanomaterials to Generate or Remove Reactive Oxygen Species: A Review. <i>ACS Applied Nano Materials</i> , 2021, 4, 7523-7537.	2.4	37

#	ARTICLE	IF	CITATIONS
19	Planning of Electroporation-Based Treatments Using Web-Based Treatment-Planning Software. <i>Journal of Membrane Biology</i> , 2013, 246, 833-842.	1.0	36
20	Detecting translational regulation by change point analysis of ribosome profiling data sets. <i>Rna</i> , 2014, 20, 1507-1518.	1.6	36
21	Similar patterns of clonally expanded somatic mtDNA mutations in the colon of heterozygous mtDNA mutator mice and ageing humans. <i>Mechanisms of Ageing and Development</i> , 2014, 139, 22-30.	2.2	33
22	Numerical optimization of gene electrotransfer into muscle tissue. <i>BioMedical Engineering OnLine</i> , 2010, 9, 66.	1.3	28
23	Systems Modelling of NHEJ Reveals the Importance of Redox Regulation of Ku70/80 in the Dynamics of DNA Damage Foci. <i>PLoS ONE</i> , 2013, 8, e55190.	1.1	19
24	Predominant Asymmetrical Stem Cell Fate Outcome Limits the Rate of Niche Succession in Human Colonic Crypts. <i>EBioMedicine</i> , 2018, 31, 166-173.	2.7	19
25	Predicting the Probability that a Chemical Causes Steatosis Using Adverse Outcome Pathway Bayesian Networks (AOPBNs). <i>Risk Analysis</i> , 2020, 40, 512-523.	1.5	19
26	Systems biology: current status and challenges. <i>Cellular and Molecular Life Sciences</i> , 2020, 77, 379-380.	2.4	18
27	Common Gene Expression Patterns in Environmental Model Organisms Exposed to Engineered Nanomaterials: A Meta-Analysis. <i>Environmental Science &amp; Technology</i> , 2020, 54, 335-344.	4.6	14
28	Systems Toxicology Approach for Testing Chemical Cardiotoxicity in Larval Zebrafish. <i>Chemical Research in Toxicology</i> , 2020, 33, 2550-2564.	1.7	13
29	Optimization and Numerical Modeling in Irreversible Electroporation Treatment Planning. <i>Series in Biomedical Engineering</i> , 2010, , 203-222.	0.5	12
30	Optimization of induction heating using numerical modeling and genetic algorithm. , 2009, , .		11
31	Modeling and gene knockdown to assess the contribution of nonsense-mediated decay, premature termination, and selenocysteine insertion to the selenoprotein hierarchy. <i>Rna</i> , 2016, 22, 1076-1084.	1.6	11
32	A validated algorithm for selecting non-toxic chemical concentrations. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2018, 35, 37-50.	0.9	11
33	Intestinal Fish Cell Barrier Model to Assess Transfer of Organic Chemicals in Vitro: An Experimental and Computational Study. <i>Environmental Science &amp; Technology</i> , 2019, 53, 12062-12070.	4.6	9
34	Sub-Lethal Peak Exposure to Insecticides Triggers Olfaction-Mediated Avoidance in Zebrafish Larvae. <i>Environmental Science &amp; Technology</i> , 2021, 55, 11835-11847.	4.6	7
35	Evaluation of Phototrophic Stream Biofilms Under Stress: Comparing Traditional and Novel Ecotoxicological Endpoints After Exposure to Diuron. <i>Frontiers in Microbiology</i> , 2018, 9, 2974.	1.5	6
36	Poultry eggshell-derived antimicrobial materials: Current status and future perspectives. <i>Journal of Environmental Management</i> , 2022, 314, 115096.	3.8	6

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37	Characterization of Aquatic Biofilms with Flow Cytometry. Journal of Visualized Experiments, 2018, , .	0.2	5
38	From Causal Networks to Adverse Outcome Pathways: A Developmental Neurotoxicity Case Study. Frontiers in Toxicology, 2022, 4, 815754.	1.6	5
39	Systems Toxicology Approach for Assessing Developmental Neurotoxicity in Larval Zebrafish. Frontiers in Genetics, 2021, 12, 652632.	1.1	3
40	Numerical Modeling and Optimization of Local Electric Field Distribution in Anisotropic Tissue for in vivo Electrochemotherapy and Electrogen Transfer. , 2008, , .		1
41	Green Algae and Networks for Adverse Outcome Pathways. , 2018, , 133-148.		1
42	Cell-based data to predict the toxicity of chemicals to fish. Commentary on the manuscript by Rodrigues etÂal., 2019. Cell-based assays seem not to accurately predict fish short-term toxicity of pesticides. Environmental Pollution 252:476â€“482. Environmental Pollution, 2019, 254, 113060.	3.7	1
43	Slovenian scientists reward mentors. Nature, 2011, 474, 161-161.	13.7	0
44	Integrated Software for Electrochemotherapy Treatment Planning of Deep-Seated Tumors. IFMBE Proceedings, 2011, , 614-617.	0.2	0
45	Ribosome Profiling. , 2016, , 175-195.		0
46	Numerical Assessment of Induced Current Densities for Pregnant Women Exposed to 50 Hz Electromagnetic Field. , 2007, , 226-229.		0