

John W Wills

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

976
citations

394421

19
h-index

501196

28
g-index

31
all docs

31
docs citations

31
times ranked

1406
citing authors

#	ARTICLE	IF	CITATIONS
1	The origin of heterogeneous nanoparticle uptake by cells. <i>Nature Communications</i> , 2019, 10, 2341.	12.8	104
2	Formulation of Metal-Organic Framework-Based Drug Carriers by Controlled Coordination of Methoxy PEG Phosphate: Boosting Colloidal Stability and Redispersibility. <i>Journal of the American Chemical Society</i> , 2021, 143, 13557-13572.	13.7	88
3	Critical review of the current and future challenges associated with advanced <i>in vitro</i> systems towards the study of nanoparticle (secondary) genotoxicity. <i>Mutagenesis</i> , 2017, 32, 233-241.	2.6	75
4	Empirical analysis of BMD metrics in genetic toxicology part I: <i>in vitro</i> analyses to provide robust potency rankings and support MOA determinations. <i>Mutagenesis</i> , 2016, 31, 255-263.	2.6	68
5	Cell Type-Dependent Changes in CdSe/ZnS Quantum Dot Uptake and Toxic Endpoints. <i>Toxicological Sciences</i> , 2015, 144, 246-258.	3.1	53
6	Genetic toxicity assessment of engineered nanoparticles using a 3D <i>in vitro</i> skin model (EpiDerm). <i>Particle and Fibre Toxicology</i> , 2015, 13, 50.	6.2	51
7	Empirical analysis of BMD metrics in genetic toxicology part II: <i>in vivo</i> potency comparisons to promote reductions in the use of experimental animals for genetic toxicity assessment. <i>Mutagenesis</i> , 2016, 31, 265-275.	2.6	48
8	Identification of a mammalian silicon transporter. <i>American Journal of Physiology - Cell Physiology</i> , 2017, 312, C550-C561.	4.6	45
9	<i>In vitro</i> detection of <i>in vitro</i> secondary mechanisms of genotoxicity induced by engineered nanomaterials. <i>Particle and Fibre Toxicology</i> , 2019, 16, 8.	6.2	40
10	Infection with the sheep gastrointestinal nematode <i>Teladorsagia circumcincta</i> increases luminal pathobionts. <i>Microbiome</i> , 2020, 8, 60.	11.1	40
11	Recommendations, evaluation and validation of a semi-automated, fluorescent-based scoring protocol for micronucleus testing in human cells. <i>Mutagenesis</i> , 2014, 29, 155-164.	2.6	36
12	New approaches to advance the use of genetic toxicology analyses for human health risk assessment. <i>Toxicology Research</i> , 2015, 4, 667-676.	2.1	34
13	Characterizing Nanoparticles in Biological Matrices: Tipping Points in Agglomeration State and Cellular Delivery <i>In Vitro</i> . <i>ACS Nano</i> , 2017, 11, 11986-12000.	14.6	33
14	Copper nanoparticles have negligible direct antibacterial impact. <i>NanoImpact</i> , 2020, 17, 100192.	4.5	30
15	Nanoparticle vesicle encoding for imaging and tracking cell populations. <i>Nature Methods</i> , 2014, 11, 1177-1181.	19.0	29
16	Comparison of <i>in vitro</i> and <i>in vivo</i> clastogenic potency based on benchmark dose analysis of flow cytometric micronucleus data. <i>Mutagenesis</i> , 2016, 31, 277-285.	2.6	27
17	Comparing BMD-derived genotoxic potency estimations across variants of the transgenic rodent gene mutation assay. <i>Environmental and Molecular Mutagenesis</i> , 2017, 58, 632-643.	2.2	25
18	Gastrointestinal absorption and toxicity of nanoparticles and microparticles: Myth, reality and pitfalls explored through titanium dioxide. <i>Current Opinion in Toxicology</i> , 2020, 19, 112-120.	5.0	23

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19	Genotoxic capacity of Cd/Se semiconductor quantum dots with differing surface chemistries. <i>Mutagenesis</i> , 2015, 31, gev061.	2.6	21
20	Comprehensive interpretation of in vitro micronucleus test results for 292 chemicals: from hazard identification to risk assessment application. <i>Archives of Toxicology</i> , 2022, 96, 2067-2085.	4.2	15
21	Inter-laboratory automation of the in vitro micronucleus assay using imaging flow cytometry and deep learning. <i>Archives of Toxicology</i> , 2021, 95, 3101-3115.	4.2	14
22	Quantum dot induced cellular perturbations involving varying toxicity pathways. <i>Toxicology Research</i> , 2015, 4, 623-633.	2.1	13
23	Developing ovine mammary terminal duct lobular units have a dynamic mucosal and stromal immune microenvironment. <i>Communications Biology</i> , 2021, 4, 993.	4.4	13
24	Investigating FlowSight® imaging flow cytometry as a platform to assess chemically induced micronuclei using human lymphoblastoid cells in vitro. <i>Mutagenesis</i> , 2018, 33, 283-289.	2.6	12
25	A Murine Oral Exposure Model for Nano- and Micro-Particulates: Demonstrating Human Relevance with Food-Grade Titanium Dioxide. <i>Small</i> , 2020, 16, e2000486.	10.0	12
26	Image-Based Cell Profiling Enables Quantitative Tissue Microscopy in Gastroenterology. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2020, 97, 1222-1237.	1.5	12
27	MutAIT: an online genetic toxicology data portal and analysis tools. <i>Mutagenesis</i> , 2016, 31, 323-328.	2.6	10
28	Modification of Schottky interface by the inclusion of DNA interlayer to create metal / organic / inorganic structures. , 2012, , .		2
29	Development of an Optically Transparent Silicon Based Technology Platform for Biological Analysis. <i>IEEE Sensors Journal</i> , 2015, 15, 1849-1857.	4.7	1
30	Quantifying the Dispersion of Nanoparticles by Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2019, 25, 706-707.	0.4	0