

Saji George

List of Publications by Citations

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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.

63

papers

5,218

citations

29

h-index

68

g-index

68

ext. papers

5,677

ext. citations

8.3

avg, IF

5.22

L-index

#	Paper	IF	Citations
63	Polyethyleneimine coating enhances the cellular uptake of mesoporous silica nanoparticles and allows safe delivery of siRNA and DNA constructs. <i>ACS Nano</i> , 2009 , 3, 3273-86	16.7	725
62	Use of a rapid cytotoxicity screening approach to engineer a safer zinc oxide nanoparticle through iron doping. <i>ACS Nano</i> , 2010 , 4, 15-29	16.7	427
61	Decreased dissolution of ZnO by iron doping yields nanoparticles with reduced toxicity in the rodent lung and zebrafish embryos. <i>ACS Nano</i> , 2011 , 5, 1223-35	16.7	298
60	Role of Fe doping in tuning the band gap of TiO ₂ for the photo-oxidation-induced cytotoxicity paradigm. <i>Journal of the American Chemical Society</i> , 2011 , 133, 11270-8	16.4	290
59	Use of a high-throughput screening approach coupled with in vivo zebrafish embryo screening to develop hazard ranking for engineered nanomaterials. <i>ACS Nano</i> , 2011 , 5, 1805-17	16.7	280
58	Surface defects on plate-shaped silver nanoparticles contribute to its hazard potential in a fish gill cell line and zebrafish embryos. <i>ACS Nano</i> , 2012 , 6, 3745-59	16.7	279
57	Designed synthesis of CeO ₂ nanorods and nanowires for studying toxicological effects of high aspect ratio nanomaterials. <i>ACS Nano</i> , 2012 , 6, 5366-80	16.7	275
56	A predictive toxicological paradigm for the safety assessment of nanomaterials. <i>ACS Nano</i> , 2009 , 3, 1620-7	16.7	272
55	Dispersion and stability optimization of TiO ₂ nanoparticles in cell culture media. <i>Environmental Science & Technology</i> , 2010 , 44, 7309-14	10.3	261
54	Uptake pathways of anionic and cationic photosensitizers into bacteria. <i>Photochemical and Photobiological Sciences</i> , 2009 , 8, 788-95	4.2	162
53	Dispersal state of multiwalled carbon nanotubes elicits profibrogenic cellular responses that correlate with fibrogenesis biomarkers and fibrosis in the murine lung. <i>ACS Nano</i> , 2011 , 5, 9772-87	16.7	159
52	High content screening in zebrafish speeds up hazard ranking of transition metal oxide nanoparticles. <i>ACS Nano</i> , 2011 , 5, 7284-95	16.7	154
51	Quantitative techniques for assessing and controlling the dispersion and biological effects of multiwalled carbon nanotubes in mammalian tissue culture cells. <i>ACS Nano</i> , 2010 , 4, 7241-52	16.7	142
50	Classification NanoSAR development for cytotoxicity of metal oxide nanoparticles. <i>Small</i> , 2011 , 7, 1118-26	16.7	140
49	Nanomaterials in the environment: from materials to high-throughput screening to organisms. <i>ACS Nano</i> , 2011 , 5, 13-20	16.7	133
48	Photophysical, photochemical, and photobiological characterization of methylene blue formulations for light-activated root canal disinfection. <i>Journal of Biomedical Optics</i> , 2007 , 12, 034029	3.5	99
47	Differential effect of solar light in increasing the toxicity of silver and titanium dioxide nanoparticles to a fish cell line and zebrafish embryos. <i>Environmental Science & Technology</i> , 2014 , 48, 6374-82	10.3	93

46	Size influences the cytotoxicity of poly (lactic-co-glycolic acid) (PLGA) and titanium dioxide (TiO ₂) nanoparticles. <i>Archives of Toxicology</i> , 2013 , 87, 1075-86	5.8	89
45	Differential expression of syndecan-1 mediates cationic nanoparticle toxicity in undifferentiated versus differentiated normal human bronchial epithelial cells. <i>ACS Nano</i> , 2011 , 5, 2756-2769	16.7	76
44	Self-organizing map analysis of toxicity-related cell signaling pathways for metal and metal oxide nanoparticles. <i>Environmental Science & Technology</i> , 2011 , 45, 1695-702	10.3	72
43	Size of TiO ₂ nanoparticles influences their phototoxicity: an in vitro investigation. <i>Archives of Toxicology</i> , 2013 , 87, 99-109	5.8	67
42	Advanced noninvasive light-activated disinfection: assessment of cytotoxicity on fibroblast versus antimicrobial activity against <i>Enterococcus faecalis</i> . <i>Journal of Endodontics</i> , 2007 , 33, 599-602	4.7	66
41	Influence of photosensitizer solvent on the mechanisms of photoactivated killing of <i>Enterococcus faecalis</i> . <i>Photochemistry and Photobiology</i> , 2008 , 84, 734-40	3.6	56
40	Augmenting the antibiofilm efficacy of advanced noninvasive light activated disinfection with emulsified oxidizer and oxygen carrier. <i>Journal of Endodontics</i> , 2008 , 34, 1119-23	4.7	55
39	Comparison of acute aquatic effects of the oil dispersant Corexit 9500 with those of other Corexit series dispersants. <i>Ecotoxicology and Environmental Safety</i> , 1996 , 35, 183-9	7	54
38	Individual and combined effects of Aflatoxin B, Deoxynivalenol and Zearalenone on HepG2 and RAW 264.7 cell lines. <i>Food and Chemical Toxicology</i> , 2017 , 103, 18-27	4.7	46
37	Innovative food processing technologies on the transglutaminase functionality in protein-based food products: Trends, opportunities and drawbacks. <i>Trends in Food Science and Technology</i> , 2018 , 75, 194-205	15.3	42
36	Recent advances in the application of microbial transglutaminase crosslinking in cheese and ice cream products: A review. <i>International Journal of Biological Macromolecules</i> , 2018 , 107, 2364-2374	7.9	41
35	New Trends in the Microencapsulation of Functional Fatty Acid-Rich Oils Using Transglutaminase Catalyzed Crosslinking. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2018 , 17, 274-289	16.4	31
34	Awareness on adverse effects of nanotechnology increases negative perception among public: survey study from Singapore. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1	2.3	25
33	Effect of tissue fluids on hydrophobicity and adherence of <i>Enterococcus faecalis</i> to dentin. <i>Journal of Endodontics</i> , 2007 , 33, 1421-5	4.7	24
32	Combined toxicity of prevalent mycotoxins studied in fish cell line and zebrafish larvae revealed that type of interactions is dose-dependent. <i>Aquatic Toxicology</i> , 2017 , 193, 60-71	5.1	22
31	Association rule mining of cellular responses induced by metal and metal oxide nanoparticles. <i>Analyst, The</i> , 2014 , 139, 943-53	5	22
30	Expert views on societal responses to different applications of nanotechnology: a comparative analysis of experts in countries with different economic and regulatory environments. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	22
29	Emerging in vitro models for safety screening of high-volume production nanomaterials under environmentally relevant exposure conditions. <i>Small</i> , 2013 , 9, 1504-20	11	21

28	Possibilities of gutta-percha-centered infection in endodontically treated teeth: an in vitro study. <i>Journal of Endodontics</i> , 2010 , 36, 1241-4	4.7	21
27	Comparative toxicity of two oil dispersants to the early life stages of two marine species. <i>Environmental Toxicology and Chemistry</i> , 1993 , 12, 1855-1863	3.8	21
26	Metal-Containing Nano-Antimicrobials: Differentiating the Impact of Solubilized Metals and Particles 2012 , 253-290		17
25	Comparison of the response of human embryonic stem cells and their differentiated progenies to oxidative stress. <i>Photomedicine and Laser Surgery</i> , 2009 , 27, 669-74		16
24	A light-assisted in situ embedment of silver nanoparticles to prepare functionalized fabrics. <i>Nanotechnology, Science and Applications</i> , 2017 , 10, 147-162	3.9	15
23	Comparative effects of oil dispersants to the early life stages of topmelt (<i>Atherinops affinis</i>) and kelp (<i>Macrocystis pyrifera</i>). <i>Environmental Toxicology and Chemistry</i> , 1994 , 13, 649-655	3.8	13
22	Size and site dependent biological hazard potential of particulate matters collected from different heights at the vicinity of a building construction. <i>Toxicology Letters</i> , 2015 , 238, 20-9	4.4	12
21	TOXICITY PROFILING OF ENGINEERED NANOMATERIALS VIA MULTIVARIATE DOSE-RESPONSE SURFACE MODELING. <i>Annals of Applied Statistics</i> , 2012 , 6, 1707-1729	2.1	12
20	Hierarchical Rank Aggregation with Applications to Nanotoxicology. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2013 , 18, 159-177	1.9	11
19	Personal level exposure and hazard potential of particulate matter during haze and non-haze periods in Singapore. <i>Chemosphere</i> , 2020 , 243, 125401	8.4	11
18	Enhancing the Bioavailability of Silver Through Nanotechnology Approaches Could Overcome Efflux Pump Mediated Silver Resistance in Methicillin Resistant. <i>Journal of Biomedical Nanotechnology</i> , 2019 , 15, 2216-2228	4	8
17	The multi-facets of sustainable nanotechnology - Lessons from a nanosafety symposium. <i>Nanotoxicology</i> , 2015 , 9, 404-6	5.3	7
16	A Comparative Analysis of Different Grades of Silica Particles and Temperature Variants of Food-Grade Silica Nanoparticles for Their Physicochemical Properties and Effect on Trypsin. <i>Journal of Agricultural and Food Chemistry</i> , 2019 , 67, 12264-12272	5.7	6
15	The type of dietary nanoparticles influences salivary protein corona composition. <i>NanoImpact</i> , 2020 , 19, 100238	5.6	5
14	Nanomaterial Properties: Implications for Safe Medical Applications of Nanotechnology 2015 , 45-69		4
13	Reply to Assessing the Safety of Nanomaterials by Genomic Approach Could Be Another Alternative <i>ACS Nano</i> , 2009 , 3, 3830-3831	16.7	3
12	Prevalence and mechanisms of antibiotic resistance in <i>Escherichia coli</i> isolated from mastitic dairy cattle in Canada. <i>BMC Microbiology</i> , 2021 , 21, 222	4.5	3
11	Impact of Silver Nanoparticles in Wastewater on Heavy Metal Transport in Soil and Uptake by Radish Plants. <i>Water, Air, and Soil Pollution</i> , 2021 , 232, 1	2.6	2

10	Low levels of silver in food packaging materials may have no functional advantage, instead enhance microbial spoilage of food through hormetic effect. <i>Food Control</i> , 2021 , 123, 107768	6.2	2
9	Protein-biomolecule interactions play a major role in shaping corona proteome: studies on milk interacted dietary particles. <i>Nanoscale</i> , 2021 , 13, 13353-13367	7.7	2
8	Dietary nanoparticles compromise epithelial integrity and enhance translocation and antigenicity of milk proteins: An in vitro investigation.. <i>NanoImpact</i> , 2021 , 24, 100369	5.6	1
7	EVALUATION OF DISPERSANT TOXICITY USING A STANDARDIZED MODELED-EXPOSURE APPROACH. <i>International Oil Spill Conference Proceedings</i> , 1995 , 1995, 830-832		1
6	Food grade silica nanoparticles cause non-competitive type inhibition of human salivary α -amylase because of surface interaction. <i>Nano Select</i> , 2021 , 2, 632-641	3.1	1
5	ACUTE AQUATIC EFFECTS OF CHEMICALLY DISPERSED AND UNDISPERSED CRUDE OIL. <i>International Oil Spill Conference Proceedings</i> , 1997 , 1997, 1020-1021		1
4	Characterizing the effects of titanium dioxide and silver nanoparticles released from painted surfaces due to weathering on zebrafish (<i>D. rerio</i>). <i>Nanotoxicology</i> , 2021 , 15, 527-541	5.3	1
3	Hazard profiling of a combinatorial library of zinc oxide nanoparticles: Ameliorating light and dark toxicity through surface passivation.. <i>Journal of Hazardous Materials</i> , 2022 , 434, 128825	12.8	1
2	Inorganic food additive nanomaterials alter the allergenicity of milk proteins.. <i>Food and Chemical Toxicology</i> , 2022 , 162, 112874	4.7	0
1	Light activation of gold nanorods but not gold nanospheres enhance antibacterial effect through photodynamic and photothermal mechanisms.. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2022 , 231, 112450	6.7	0