Shareen Doak

List of Publications by Year
in descending order

121 papers	5,987 citations	109321 35 h-index	76900 74 g-index
124 all docs	124 docs citations	124 times ranked	8543 citing authors

#	Article	IF	Citations
1	NanoGenotoxicology: The DNA damaging potential of engineered nanomaterials. Biomaterials, 2009, 30, 3891-3914.	11.4	998
2	Potential toxicity of superparamagnetic iron oxide nanoparticles (SPION). Nano Reviews, 2010, 1, 5358.	3.7	861
3	Cytotoxic Effects of Gold Nanoparticles: A Multiparametric Study. ACS Nano, 2012, 6, 5767-5783.	14.6	239
4	Confounding experimental considerations in nanogenotoxicology. Mutagenesis, 2009, 24, 285-293.	2.6	208
5	In vitro genotoxicity testing strategy for nanomaterials and the adaptation of current OECD guidelines. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2012, 745, 104-111.	1.7	200
6	Mechanistic Influences for Mutation Induction Curves after Exposure to DNA-Reactive Carcinogens. Cancer Research, 2007, 67, 3904-3911.	0.9	185
7	Skin tissue engineering using 3D bioprinting: An evolving research field. Journal of Plastic, Reconstructive and Aesthetic Surgery, 2018, 71, 615-623.	1.0	136
8	The role of iron redox state in the genotoxicity of ultrafine superparamagnetic iron oxide nanoparticles. Biomaterials, 2012, 33, 163-170.	11.4	129
9	The bile acid deoxycholic acid (DCA) at neutral pH activates NF-ÂB and induces IL-8 expression in oesophageal cells in vitro. Carcinogenesis, 2003, 25, 317-323.	2.8	113
10	Genetic pathways involved in the progression of Barrett's metaplasia to adenocarcinoma. British Journal of Surgery, 2002, 89, 824-837.	0.3	108
11	Do dose response thresholds exist for genotoxic alkylating agents?. Mutagenesis, 2005, 20, 389-398.	2.6	108
12	Critical review of the current and future challenges associated with advanced<i>in vitro</i>systems towards the study of nanoparticle (secondary) genotoxicity. Mutagenesis, 2017, 32, 233-241.	2.6	75
13	Genotoxicity Assessment of Nanomaterials: Recommendations on Best Practices, Assays, and Methods. Toxicological Sciences, 2018, 164, 391-416.	3.1	71
14	Empirical analysis of BMD metrics in genetic toxicology part I:<i>in vitro</i>analyses to provide robust potency rankings and support MOA determinations. Mutagenesis, 2016, 31, 255-263.	2.6	68
15	A three-dimensional in vitro HepG2 cells liver spheroid model for genotoxicity studies. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2018, 825, 51-58.	1.7	68
16	Influence of DNA Repair on Nonlinear Dose-Responses for Mutation. Toxicological Sciences, 2013, 132, 87-95.	3.1	65
17	The 3Rs as a framework to support a 21st century approach for nanosafety assessment. Nano Today, 2017, 12, 10-13.	11.9	65
18	Non-linear doseâ€“response of DNA-reactive genotoxins: Recommendations for data analysis. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2009, 678, 95-100.	1.7	63

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19	Chromosome 4 hyperploidy represents an early genetic aberration in premalignant Barrett's oesophagus. Gut, 2003, 52, 623-628.	12.1	62
20	The effect of nanoparticle degradation on poly(methacrylic acid)-coated quantum dot toxicity: The importance of particle functionality assessment in toxicology. Acta Biomaterialia, 2014, 10, 732-741.	8.3	57
21	Dextran Coated Ultrafine Superparamagnetic Iron Oxide Nanoparticles: Compatibility with Common Fluorometric and Colorimetric Dyes. Analytical Chemistry, 2011, 83, 3778-3785.	6.5	55
22	Cell Type-Dependent Changes in CdSe/ZnS Quantum Dot Uptake and Toxic Endpoints. Toxicological Sciences, 2015, 144, 246-258.	3.1	53
23	Genetic toxicity assessment of engineered nanoparticles using a 3D in vitro skin model (EpiDermâ„¢). Particle and Fibre Toxicology, 2015, 13, 50.	6.2	51
24	A role for STEAP2 in prostate cancer progression. Clinical and Experimental Metastasis, 2014, 31, 909-920.	3.3	48
25	Comprehensive framework for human health risk assessment of nanopesticides. Nature Nanotechnology, 2021, 16, 955-964.	31.5	48
26	Genotoxicity of nanomaterials: Refining strategies and tests for hazard identification. Environmental and Molecular Mutagenesis, 2013, 54, 229-239.	2.2	46
27	Single-walled carbon nanotubes: differential genotoxic potential associated with physico-chemical properties. Nanotoxicology, 2013, 7, 144-156.	3.0	46
28	Emerging metrology for high-throughput nanomaterial genotoxicology. Mutagenesis, 2017, 32, 215-232.	2.6	43
29	Coating of Quantum Dots strongly defines their effect on lysosomal health and autophagy. Acta Biomaterialia, 2017, 48, 195-205.	8.3	42
30	Differential expression of the MAD2, BUB1 and HSP27 genes in Barrett's oesophagusâ€"their association with aneuploidy and neoplastic progression. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2004, 547, 133-144.	1.0	40
31	Fluorescent non-porous silica nanoparticles for long-term cell monitoring: Cytotoxicity and particle functionality. Acta Biomaterialia, 2013, 9, 9183-9193.	8.3	40
32	In vitro detection of in vitro secondary mechanisms of genotoxicity induced by engineered nanomaterials. Particle and Fibre Toxicology, 2019, 16, 8.	6.2	40
33	Genotoxic thresholds, DNA repair, and susceptibility in human populations. Toxicology, 2010, 278, 305-310.	4.2	39
34	N-Methylpurine DNA Glycosylase Plays a Pivotal Role in the Threshold Response of Ethyl Methanesulfonateâ€"Induced Chromosome Damage. Toxicological Sciences, 2011, 119, 346-358.	3.1	39
35	Tissue-Engineered Solutions in Plastic and Reconstructive Surgery: Principles and Practice. Frontiers in Surgery, 2017, 4, 4.	1.4	37
36	Characterisation of p53 status at the gene, chromosomal and protein levels in oesophageal adenocarcinoma. British Journal of Cancer, 2003, 89, 1729-1735.	6.4	36

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37	Recommendations, evaluation and validation of a semi-automated, fluorescent-based scoring protocol for micronucleus testing in human cells. Mutagenesis, 2014, 29, 155-164.	2.6	36
38	Aligning nanotoxicology with the 3Rs: What is needed to realise the short, medium and long-term opportunities?. Regulatory Toxicology and Pharmacology, 2017, 91, 257-266.	2.7	36
39	High-resolution imaging using a novel atomic force microscope and confocal laser scanning microscope hybrid instrument: essential sample preparation aspects. Histochemistry and Cell Biology, 2008, 130, 909-916.	1.7	34
40	New approaches to advance the use of genetic toxicology analyses for human health risk assessment. Toxicology Research, 2015, 4, 667-676.	2.1	34
41	Nanomaterials and Innate Immunity: A Perspective of the Current Status in Nanosafety. Chemical Research in Toxicology, 2020, 33, 1061-1073.	3.3	34
42	No-observed effect levels are associated with up-regulation of MGMT following MMS exposure. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2008, 648, 9-14.	1.0	33
43	Characterizing Nanoparticles in Biological Matrices: Tipping Points in Agglomeration State and Cellular Delivery <i>In Vitro</i>. ACS Nano, 2017, 11, 11986-12000.	14.6	33
44	STEAP2 Knockdown Reduces the Invasive Potential of Prostate Cancer Cells. Scientific Reports, 2018, 8, 6252.	3.3	33
45	A comparison of the genotoxicity of benzo[a]pyrene in four cell lines with differing metabolic capacity. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2016, 808, 8-19.	1.7	32
46	NanoGenotoxicology: present and the future. Mutagenesis, 2017, 32, 1-4.	2.6	32
47	The role of intracellular trafficking of CdSe/ZnS QDs on their consequent toxicity profile. Journal of Nanobiotechnology, 2017, 15, 45.	9.1	31
48	Factors affecting the<i>in vitro</i>micronucleus assay for evaluation of nanomaterials. Mutagenesis, 2017, 32, 151-159.	2.6	31
49	Exposure to Engineered Nanomaterials: Impact on DNA Repair Pathways. International Journal of Molecular Sciences, 2017, 18, 1515.	4.1	31
50	Pro-oxidant Induced DNA Damage in Human Lymphoblastoid Cells: Homeostatic Mechanisms of Genotoxic Tolerance. Toxicological Sciences, 2012, 128, 387-397.	3.1	30
51	Adipose regeneration and implications for breast reconstruction: update and the future. Gland Surgery, 2016, 5, 227-41.	1.1	30
52	Putative prognostic epithelial-to-mesenchymal transition biomarkers for aggressive prostate cancer. Experimental and Molecular Pathology, 2013, 95, 220-226.	2.1	29
53	Translating Scientific Advances in the AOP Framework to Decision Making for Nanomaterials. Nanomaterials, 2020, 10, 1229.	4.1	29
54	Adaptation of the <i>in vitro</i> micronucleus assay for genotoxicity testing using 3D liver models supporting longer-term exposure durations. Mutagenesis, 2020, 35, 319-330.	2.6	29

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55	Fluorescence in situ hybridisation analysis of chromosomal aberrations in gastric tissue: the potential involvement of Helicobacter pylori. British Journal of Cancer, 2005, 92, 1759-1766.	6.4	28
56	Utilisation of the STEAP protein family in a diagnostic setting may provide a more comprehensive prognosis of prostate cancer. PLoS ONE, 2019, 14, e0220456.	2.5	28
57	Risk Governance of Emerging Technologies Demonstrated in Terms of its Applicability to Nanomaterials. Small, 2020, 16, e2003303.	10.0	28
58	Automation and validation of micronucleus detection in the 3D EpiDermâ„¢ human reconstructed skin assay and correlation with 2D dose responses. Mutagenesis, 2014, 29, 165-175.	2.6	27
59	Analysis of the premalignant stages of Barrett's oesophagus through to adenocarcinoma by comparative genomic hybridization. European Journal of Gastroenterology and Hepatology, 2002, 14, 1179-1186.	1.6	26
60	STEM mode in the SEM: A practical tool for nanotoxicology. Nanotoxicology, 2011, 5, 215-227.	3.0	26
61	Inter-laboratory variability of A549 epithelial cells grown under submerged and air-liquid interface conditions. Toxicology in Vitro, 2021, 75, 105178.	2.4	26
62	Early p53 mutations in nondysplastic Barrett's tissue detected by the restriction site mutation (RSM) methodology. British Journal of Cancer, 2003, 88, 1271-1276.	6.4	25
63	A novel, integrated in vitro carcinogenicity test to identify genotoxic and non-genotoxic carcinogens using human lymphoblastoid cells. Archives of Toxicology, 2018, 92, 935-951.	4.2	25
64	Chromosome Breakage Induced by the Genotoxic Agents Mitomycin C and Cytosine arabinoside is Concentration and p53 Dependent. Toxicological Sciences, 2014, 140, 94-102.	3.1	24
65	Genotoxic capacity of Cd/Se semiconductor quantum dots with differing surface chemistries. Mutagenesis, 2015, 31, gev061.	2.6	21
66	Is Nickel Chloride really a Nonâ€Genotoxic Carcinogen?. Basic and Clinical Pharmacology and Toxicology, 2017, 121, 10-15.	2.5	21
67	In Vitro Primaryâ€Indirect Genotoxicity in Bronchial Epithelial Cells Promoted by Industrially Relevant Fewâ€Layer Graphene. Small, 2021, 17, e2002551.	10.0	21
68	Few-layer graphene induces both primary and secondary genotoxicity in epithelial barrier models in vitro. Journal of Nanobiotechnology, 2021, 19, 24.	9.1	21
69	Evaluation of the automated MicroFlowÂ® and Metaferâ„¢ platforms for high-throughput micronucleus scoring and dose response analysis in human lymphoblastoid TK6 cells. Archives of Toxicology, 2017, 91, 2689-2698.	4.2	17
70	An Alternative Perspective towards Reducing the Risk of Engineered Nanomaterials to Human Health. Small, 2020, 16, e2002002.	10.0	17
71	In Vitro Threeâ€Dimensional Liver Models for Nanomaterial DNA Damage Assessment. Small, 2021, 17, e2006055.	10.0	17
72	Bone morphogenic factor gene dosage abnormalities in prostatic intraepithelial neoplasia and prostate cancer. Cancer Genetics and Cytogenetics, 2007, 176, 161-165.	1.0	16

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73	The clastogenicity of 4NQO is cell-type dependent and linked to cytotoxicity, length of exposure and p53 proficiency. Mutagenesis, 2016, 31, 171-180.	2.6	16
74	Quantum Dots for Multiplexed Detection and Characterisation of Prostate Cancer Cells Using a Scanning Near-Field Optical Microscope. PLoS ONE, 2012, 7, e31592.	2.5	16
75	Aneuploidy in upper gastro-intestinal tract cancersâ€"A potential prognostic marker?. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2008, 651, 93-104.	1.7	15
76	Understanding the impact of more realistic low-dose, prolonged engineered nanomaterial exposure on genotoxicity using 3D models of the human liver. Journal of Nanobiotechnology, 2021, 19, 193.	9.1	15
77	Advanced 3D Liver Models for In vitro Genotoxicity Testing Following Long-Term Nanomaterial Exposure. Journal of Visualized Experiments, 2020, , .	0.3	14
78	Quantum dot induced cellular perturbations involving varying toxicity pathways. Toxicology Research, 2015, 4, 623-633.	2.1	13
79	Choose your cell model wisely: The in vitro nanoneurotoxicity of differentially coated iron oxide nanoparticles for neural cell labeling. Acta Biomaterialia, 2017, 55, 204-213.	8.3	13
80	The In Vitro Micronucleus Assay and Kinetochore Staining: Methodology and Criteria for the Accurate Assessment of Genotoxicity and Cytotoxicity. Methods in Molecular Biology, 2013, 1044, 269-289.	0.9	13
81	Investigating Mechanisms for Non-linear Genotoxic Responses, and Analysing Their Effects in Binary Combination. Genes and Environment, 2012, 34, 179-185.	2.1	13
82	Comparative genomic hybridization (CGH) of augmentation cystoplasties. International Journal of Urology, 2007, 14, 539-544.	1.0	12
83	Investigating FlowSightÂ® imaging flow cytometry as a platform to assess chemically induced micronuclei using human lymphoblastoid cells in vitro. Mutagenesis, 2018, 33, 283-289.	2.6	12
84	Genotoxins induce binucleation in L5178Y and TK6 cells. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2014, 770, 29-34.	1.7	11
85	Increased expression of ARF GTPases in prostate cancer tissue. SpringerPlus, 2015, 4, 342.	1.2	11
86	Emerging Standards and Analytical Science for Nanoenabled Medical Products. Annual Review of Analytical Chemistry, 2020, 13, 431-452.	5.4	11
87	Simulating Nanomaterial Transformation in Cascaded Biological Compartments to Enhance the Physiological Relevance of In Vitro Dosing Regimes: Optional or Required?. Small, 2021, 17, e2004630.	10.0	11
88	Fluorescence imaging and investigations of directly labelled chromosomes using scanning near-field optical microscopy. Ultramicroscopy, 2007, 107, 308-312.	1.9	10
89	Vinblastine and diethylstilboestrol tested in the in vitro mammalian cell micronucleus test (MNvit) at Swansea University UK in support of OECD draft Test Guideline 487. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2010, 702, 189-192.	1.7	10
90	Real-Time Reverse-Transcription Polymerase Chain Reaction: Technical Considerations for Gene Expression Analysis. Methods in Molecular Biology, 2012, 817, 251-270.	0.9	10

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91	Acute Dosing and p53-Deficiency Promote Cellular Sensitivity to DNA Methylating Agents. Toxicological Sciences, 2015, 144, 357-365.	3.1	9
92	Reprint of: A three-dimensional in vitro HepG2 cells liver spheroid model for genotoxicity studies. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2018, 834, 35-41.	1.7	9
93	The Road to Achieving the European Commission's Chemicals Strategy for Nanomaterial Sustainabilityâ€"A PATROLS Perspective on New Approach Methodologies. Small, 2022, 18, e2200231.	10.0	9
94	Identification of Early p53 Mutations in Clam Ileocystoplasties Using Restriction Site Mutation Assay. Urology, 2007, 70, 905-909.	1.0	8
95	Comparison of passive-dosed and solvent spiked exposures of pro-carcinogen, benzo[a]pyrene, to human lymphoblastoid cell line, MCL-5. Toxicology in Vitro, 2020, 67, 104905.	2.4	8
96	Common Considerations for Genotoxicity Assessment of Nanomaterials. Frontiers in Toxicology, 2022, 4, .	3.1	8
97	<i>In vitro</i> and integrated <i>in vivo</i> strategies to reduce animal use in genotoxicity testing. Mutagenesis, 2021, 36, 389-400.	2.6	7
98	Generation of locus-specific probes for interphase fluorescence in situ hybridisationâ€"application in Barrett's esophagus. Experimental and Molecular Pathology, 2004, 77, 26-33.	2.1	6
99	Genotoxicity and Cancer. , 2012, , 243-261.		6
100	The Role of Adhesion Molecules as Biomarkers for the Aggressive Prostate Cancer Phenotype. PLoS ONE, 2013, 8, e81666.	2.5	6
101	Genotoxicity and Cancer. , 2017, , 423-445.		6
102	Dietary and lifestyle factors effect erythrocyte<i>PIG-A</i>mutant frequency in humans. Mutagenesis, 2020, 35, 405-413.	2.6	6
103	Multiple-endpoint in vitro carcinogenicity test in human cell line TK6 distinguishes carcinogens from non-carcinogens and highlights mechanisms of action. Archives of Toxicology, 2021, 95, 321-336.	4.2	6
104	Advanced In Vitro Models for Replacement of Animal Experiments. Small, 2021, 17, e2101474.	10.0	6
105	The influence of exposure approaches to <i>inÂvitro</i> lung epithelial barrier models to assess engineered nanomaterial hazard. Nanotoxicology, 2022, 16, 114-134.	3.0	6
106	Unraveling the effects of siRNA carrier systems on cell physiology: a multiparametric approach demonstrated on dextran nanogels. Nanomedicine, 2014, 9, 61-76.	3.3	5
107	The application of existing genotoxicity methodologies for grouping of nanomaterials: towards an integrated approach to testing and assessment. Particle and Fibre Toxicology, 2022, 19, 32.	6.2	5
108	Opinion of the Scientific Committee on consumer safety (SCCS) - Opinion on the use of 2,2â€²-methylene-bis-(6-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol) (nano) â€" S79 â€" In cosmetic products. Regulatory Toxicology and Pharmacology, 2016, 76, 215-216.	2.7	4

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109	Investigation of J-shaped dose-responses induced by exposure to the alkylating agent N -methyl- N -nitrosourea. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2017, 819, 38-46.	1.7	4
110	Preface. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2012, 745, 1-3.	1.7	3
111	Considerations for the Human Health Implications of Nanotheranostics. , 2018, , 279-303.		3
112	Horizon scanning for novel and emerging in vitro mammalian cell mutagenicity test systems. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2019, 847, 403024.	1.7	3
113	Detection of urethane-induced genotoxicity <i>in vitro</i> using metabolically competent human 2D and 3D spheroid culture models. Mutagenesis, 2020, 35, 445-452.	2.6	3
114	Deducing the cellular mechanisms associated with the potential genotoxic impact of gold and silver engineered nanoparticles upon different lung epithelial cell lines inÂvitro. Nanotoxicology, 2022, , 1-21.	3.0	3
115	Modification of Schottky interface by the inclusion of DNA interlayer to create metal / organic / inorganic structures. , 2012, , .		2
116	The jury is still out on the safety of silver nanoparticles. BMJ, The, 2013, 346, f227-f227.	6.0	2
117	Cellular Defense Mechanisms Following Nanomaterial Exposure: A Focus on Oxidative Stress and Cytotoxicity. Nanoscience and Technology, 2019, , 243-254.	1.5	2
118	Industrial-relevant TiO2 types do not promote cytotoxicity in the A549 or TK6 cell lines regardless of cell specific interaction. Toxicology in Vitro, 2022, 83, 105415.	2.4	2
119	A Crosstalk Between <i>K ras</i> (Kirsten Rat Sarcoma Viral Oncogene Homologue) and Adherence Molecular Complex Leads to Disassociation of Cellsâ€"A Possible Contribution Towards Metastasis in Colorectal Cancer. Journal of Cellular Biochemistry, 2016, 117, 2340-2345.	2.6	1
120	The effect of chronic dosing and p53 status on the genotoxicity of pro-oxidant chemicals <i>in vitro</i>. Mutagenesis, 2020, 35, 479-489.	2.6	1
121	Overview of Nanotoxicology in Humans and the Environment; Developments, Challenges and Impacts. Molecular and Integrative Toxicology, 2021, , 1-40.	0.5	0