

Nicklas Raun Jacobsen

List of Publications by Year in descending order

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Version: 2024-02-01

100
papers

6,750
citations

38742

50
h-index

62596

80
g-index

101
all docs

101
docs citations

101
times ranked

6502
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of oxidative damage in toxicity of particulates. <i>Free Radical Research</i> , 2010, 44, 1-46.	3.3	361
2	Genotoxicity, cytotoxicity, and reactive oxygen species induced by single-walled carbon nanotubes and C ₆₀ fullerenes in the F1 mouse lung epithelial cells. <i>Environmental and Molecular Mutagenesis</i> , 2008, 49, 476-487.	2.2	343
3	Lung inflammation and genotoxicity following pulmonary exposure to nanoparticles in ApoE ^{-/-} mice. <i>Particle and Fibre Toxicology</i> , 2009, 6, 2.	6.2	269
4	Bioaccumulation and ecotoxicity of carbon nanotubes. <i>Chemistry Central Journal</i> , 2013, 7, 154.	2.6	229
5	Tissue distribution and elimination after oral and intravenous administration of different titanium dioxide nanoparticles in rats. <i>Particle and Fibre Toxicology</i> , 2014, 11, 30.	6.2	229
6	Oxidatively Damaged DNA in Rats Exposed by Oral Gavage to C ₆₀ Fullerenes and Single-Walled Carbon Nanotubes. <i>Environmental Health Perspectives</i> , 2009, 117, 703-708.	6.0	215
7	MWCNTs of different physicochemical properties cause similar inflammatory responses, but differences in transcriptional and histological markers of fibrosis in mouse lungs. <i>Toxicology and Applied Pharmacology</i> , 2015, 284, 16-32.	2.8	159
8	Carbon black nanoparticle instillation induces sustained inflammation and genotoxicity in mouse lung and liver. <i>Particle and Fibre Toxicology</i> , 2012, 9, 5.	6.2	158
9	Pulmonary exposure to carbon black by inhalation or instillation in pregnant mice: Effects on liver DNA strand breaks in dams and offspring. <i>Nanotoxicology</i> , 2012, 6, 486-500.	3.0	135
10	Biodistribution of gold nanoparticles in mouse lung following intratracheal instillation. <i>Chemistry Central Journal</i> , 2009, 3, 16.	2.6	133
11	Engineered nanomaterial risk. Lessons learnt from completed nanotoxicology studies: potential solutions to current and future challenges. <i>Critical Reviews in Toxicology</i> , 2013, 43, 1-20.	3.9	130
12	Increased mutant frequency by carbon black, but not quartz, in the lacZ and lacII transgenes of mouse lung epithelial cells. <i>Environmental and Molecular Mutagenesis</i> , 2007, 48, 451-461.	2.2	125
13	Inflammatory and genotoxic effects of nanoparticles designed for inclusion in paints and lacquers. <i>Nanotoxicology</i> , 2012, 6, 453-471.	3.0	118
14	A Multilaboratory Toxicological Assessment of a Panel of 10 Engineered Nanomaterials to Human Health – ENPRA Project – The Highlights, Limitations, and Current and Future Challenges. <i>Journal of Toxicology and Environmental Health - Part B: Critical Reviews</i> , 2016, 19, 1-28.	6.5	112
15	Nanotitanium dioxide toxicity in mouse lung is reduced in sanding dust from paint. <i>Particle and Fibre Toxicology</i> , 2012, 9, 4.	6.2	108
16	Role of oxidative stress in carbon nanotube-generated health effects. <i>Archives of Toxicology</i> , 2014, 88, 1939-1964.	4.2	99
17	Particle-Induced Pulmonary Acute Phase Response Correlates with Neutrophil Influx Linking Inhaled Particles and Cardiovascular Risk. <i>PLoS ONE</i> , 2013, 8, e69020.	2.5	98
18	Hepatic and Pulmonary Toxicogenomic Profiles in Mice Intratracheally Instilled With Carbon Black Nanoparticles Reveal Pulmonary Inflammation, Acute Phase Response, and Alterations in Lipid Homeostasis. <i>Toxicological Sciences</i> , 2012, 127, 474-484.	3.1	96

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19	Two regions in chromosome 19q13.2-3 are associated with risk of lung cancer. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2004, 546, 65-74.	1.0	94
20	Vascular Effects of Multiwalled Carbon Nanotubes in Dyslipidemic ApoE ^{-/-} Mice and Cultured Endothelial Cells. <i>Toxicological Sciences</i> , 2014, 138, 104-116.	3.1	94
21	Intratracheally instilled titanium dioxide nanoparticles translocate to heart and liver and activate complement cascade in the heart of C57BL/6 mice. <i>Nanotoxicology</i> , 2015, 9, 1013-1022.	3.0	92
22	Oxidative Stress, Inflammation, and DNA Damage in Rats after Intratracheal Instillation or Oral Exposure to Ambient Air and Wood Smoke Particulate Matter. <i>Toxicological Sciences</i> , 2010, 118, 574-585.	3.1	91
23	Pulmonary instillation of low doses of titanium dioxide nanoparticles in mice leads to particle retention and gene expression changes in the absence of inflammation. <i>Toxicology and Applied Pharmacology</i> , 2013, 269, 250-262.	2.8	91
24	Particle-induced pulmonary acute phase response may be the causal link between particle inhalation and cardiovascular disease. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2014, 6, 517-531.	6.1	91
25	Acute and subacute pulmonary toxicity and mortality in mice after intratracheal instillation of ZnO nanoparticles in three laboratories. <i>Food and Chemical Toxicology</i> , 2015, 85, 84-95.	3.6	87
26	Pulmonary exposure to carbon black nanoparticles and vascular effects. <i>Particle and Fibre Toxicology</i> , 2010, 7, 33.	6.2	85
27	Modest effect on plaque progression and vasodilatory function in atherosclerosis-prone mice exposed to nanosized TiO ₂ . <i>Particle and Fibre Toxicology</i> , 2011, 8, 32.	6.2	85
28	No cytotoxicity or genotoxicity of graphene and graphene oxide in murine lung epithelial FE1 cells in vitro. <i>Environmental and Molecular Mutagenesis</i> , 2016, 57, 469-482.	2.2	82
29	Genotoxicity of unmodified and organo-modified montmorillonite. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2010, 700, 18-25.	1.7	81
30	Transcriptomic Analysis Reveals Novel Mechanistic Insight into Murine Biological Responses to Multi-Walled Carbon Nanotubes in Lungs and Cultured Lung Epithelial Cells. <i>PLoS ONE</i> , 2013, 8, e80452.	2.5	80
31	Inflammatory and genotoxic effects of sanding dust generated from nanoparticle-containing paints and lacquers. <i>Nanotoxicology</i> , 2012, 6, 776-788.	3.0	77
32	Validation of freezing tissues and cells for analysis of DNA strand break levels by comet assay. <i>Mutagenesis</i> , 2013, 28, 699-707.	2.6	74
33	DNA damage following pulmonary exposure by instillation to low doses of carbon black (Printex 90) nanoparticles in mice. <i>Environmental and Molecular Mutagenesis</i> , 2015, 56, 41-49.	2.2	72
34	Multi-walled carbon nanotube-induced genotoxic, inflammatory and pro-fibrotic responses in mice: Investigating the mechanisms of pulmonary carcinogenesis. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2017, 823, 28-44.	1.7	72
35	Biodistribution of Carbon Nanotubes in Animal Models. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2017, 121, 30-43.	2.5	72
36	Physicochemical predictors of Multi-Walled Carbon Nanotube-induced pulmonary histopathology and toxicity one year after pulmonary deposition of 11 different Multi-Walled Carbon Nanotubes in mice. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2019, 124, 211-227.	2.5	72

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37	Differences in inflammation and acute phase response but similar genotoxicity in mice following pulmonary exposure to graphene oxide and reduced graphene oxide. <i>PLoS ONE</i> , 2017, 12, e0178355.	2.5	71
38	Mutation spectrum in FE1-Muta™ Mouse lung epithelial cells exposed to nanoparticulate carbon black. <i>Environmental and Molecular Mutagenesis</i> , 2011, 52, 331-337.	2.2	66
39	Effects of physicochemical properties of TiO ₂ nanomaterials for pulmonary inflammation, acute phase response and alveolar proteinosis in intratracheally exposed mice. <i>Toxicology and Applied Pharmacology</i> , 2020, 386, 114830.	2.8	66
40	XRCC3 polymorphisms and risk of lung cancer. <i>Cancer Letters</i> , 2004, 213, 67-72.	7.2	65
41	Measurement of oxidative damage to DNA in nanomaterial exposed cells and animals. <i>Environmental and Molecular Mutagenesis</i> , 2015, 56, 97-110.	2.2	64
42	Towards FAIR nanosafety data. <i>Nature Nanotechnology</i> , 2021, 16, 644-654.	31.5	61
43	Pulmonary toxicity of silver vapours, nanoparticles and fine dusts: A review. <i>Regulatory Toxicology and Pharmacology</i> , 2020, 115, 104690.	2.7	60
44	Black tattoo inks induce reactive oxygen species production correlating with aggregation of pigment nanoparticles and product brand but not with the polycyclic aromatic hydrocarbon content. <i>Experimental Dermatology</i> , 2013, 22, 464-469.	2.9	58
45	Changes in cholesterol homeostasis and acute phase response link pulmonary exposure to multi-walled carbon nanotubes to risk of cardiovascular disease. <i>Toxicology and Applied Pharmacology</i> , 2015, 283, 210-222.	2.8	57
46	Primary genotoxicity in the liver following pulmonary exposure to carbon black nanoparticles in mice. <i>Particle and Fibre Toxicology</i> , 2018, 15, 2.	6.2	57
47	Diesel exhaust particles are mutagenic in FE1-Muta™ Mouse lung epithelial cells. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2008, 641, 54-57.	1.0	56
48	Transcriptional profiling identifies physicochemical properties of nanomaterials that are determinants of the in vivo pulmonary response. <i>Environmental and Molecular Mutagenesis</i> , 2015, 56, 245-264.	2.2	54
49	Atherosclerosis and vasomotor dysfunction in arteries of animals after exposure to combustion-derived particulate matter or nanomaterials. <i>Critical Reviews in Toxicology</i> , 2016, 46, 437-476.	3.9	54
50	Cytokine expression in mice exposed to diesel exhaust particles by inhalation. Role of tumor necrosis factor. <i>Particle and Fibre Toxicology</i> , 2006, 3, 4.	6.2	52
51	Comparative Hazard Identification by a Single Dose Lung Exposure of Zinc Oxide and Silver Nanomaterials in Mice. <i>PLoS ONE</i> , 2015, 10, e0126934.	2.5	51
52	Impact of serum as a dispersion agent for in vitro and in vivo toxicological assessments of TiO ₂ nanoparticles. <i>Archives of Toxicology</i> , 2017, 91, 353-363.	4.2	51
53	Influence of dispersion medium on nanomaterial-induced pulmonary inflammation and DNA strand breaks: investigation of carbon black, carbon nanotubes and three titanium dioxide nanoparticles. <i>Mutagenesis</i> , 2017, 32, 581-597.	2.6	47
54	Carbon black nanoparticles induce biphasic gene expression changes associated with inflammatory responses in the lungs of C57BL/6 mice following a single intratracheal instillation. <i>Toxicology and Applied Pharmacology</i> , 2015, 289, 573-588.	2.8	45

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55	Carbon black nanoparticle intratracheal installation results in large and sustained changes in the expression of miR-135b in mouse lung. <i>Environmental and Molecular Mutagenesis</i> , 2012, 53, 462-468.	2.2	44
56	Genotoxicity, inflammation and physico-chemical properties of fine particle samples from an incineration energy plant and urban air. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2007, 633, 95-111.	1.7	42
57	Epoxy composite dusts with and without carbon nanotubes cause similar pulmonary responses, but differences in liver histology in mice following pulmonary deposition. <i>Particle and Fibre Toxicology</i> , 2015, 13, 37.	6.2	42
58	DNA strand breaks, acute phase response and inflammation following pulmonary exposure by instillation to the diesel exhaust particle NIST1650b in mice. <i>Mutagenesis</i> , 2015, 30, 499-507.	2.6	42
59	Acute phase response and inflammation following pulmonary exposure to low doses of zinc oxide nanoparticles in mice. <i>Nanotoxicology</i> , 2019, 13, 1275-1292.	3.0	42
60	Nanomaterial grouping: Existing approaches and future recommendations. <i>NanoImpact</i> , 2019, 16, 100182.	4.5	42
61	Association of chromosome 19q13.2-3 haplotypes with basal cell carcinoma: tentative delineation of an involved region using data for single nucleotide polymorphisms in two cohorts. <i>Carcinogenesis</i> , 2002, 23, 1149-1153.	2.8	40
62	Weight of evidence analysis for assessing the genotoxic potential of carbon nanotubes. <i>Critical Reviews in Toxicology</i> , 2017, 47, 871-888.	3.9	40
63	Cardiovascular health effects of oral and pulmonary exposure to multi-walled carbon nanotubes in ApoE-deficient mice. <i>Toxicology</i> , 2016, 371, 29-40.	4.2	39
64	Surface modification does not influence the genotoxic and inflammatory effects of TiO ₂ nanoparticles after pulmonary exposure by instillation in mice. <i>Mutagenesis</i> , 2017, 32, 47-57.	2.6	39
65	In vitro-in vivo correlations of pulmonary inflammogenicity and genotoxicity of MWCNT. <i>Particle and Fibre Toxicology</i> , 2021, 18, 25.	6.2	39
66	Particle characterization and toxicity in C57BL/6 mice following instillation of five different diesel exhaust particles designed to differ in physicochemical properties. <i>Particle and Fibre Toxicology</i> , 2020, 17, 38.	6.2	37
67	Acute Phase Response as a Biological Mechanism of Action of (Nano)particle-Induced Cardiovascular Disease. <i>Small</i> , 2020, 16, e1907476.	10.0	37
68	Monocyte adhesion induced by multi-walled carbon nanotubes and palmitic acid in endothelial cells and alveolar endothelial co-cultures. <i>Nanotoxicology</i> , 2016, 10, 1-10.	3.0	32
69	Insights into possibilities for grouping and read-across for nanomaterials in EU chemicals legislation. <i>Nanotoxicology</i> , 2019, 13, 119-141.	3.0	32
70	Time-Dependent Subcellular Distribution and Effects of Carbon Nanotubes in Lungs of Mice. <i>PLoS ONE</i> , 2015, 10, e0116481.	2.5	27
71	Pulmonary toxicity of Fe ₂ O ₃ , ZnFe ₂ O ₄ , NiFe ₂ O ₄ and NiZnFe ₄ O ₈ nanomaterials: Inflammation and DNA strand breaks. <i>Environmental Toxicology and Pharmacology</i> , 2020, 74, 103303.	4.0	27
72	A transcriptomic overview of lung and liver changes one day after pulmonary exposure to graphene and graphene oxide. <i>Toxicology and Applied Pharmacology</i> , 2021, 410, 115343.	2.8	26

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73	Modest vasomotor dysfunction induced by low doses of C60 fullerenes in apolipoprotein E knockout mice with different degree of atherosclerosis. <i>Particle and Fibre Toxicology</i> , 2009, 6, 5.	6.2	24
74	FIB-SEM imaging of carbon nanotubes in mouse lung tissue. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 3863-3873.	3.7	24
75	Identification of Gene Transcription Start Sites and Enhancers Responding to Pulmonary Carbon Nanotube Exposure <i>in Vivo</i> . <i>ACS Nano</i> , 2017, 11, 3597-3613.	14.6	23
76	Toxicity of pristine and paint-embedded TiO ₂ nanomaterials. <i>Human and Experimental Toxicology</i> , 2019, 38, 11-24.	2.2	23
77	Hepatic Hazard Assessment of Silver Nanoparticle Exposure in Healthy and Chronically Alcohol Fed Mice. <i>Toxicological Sciences</i> , 2017, 158, 176-187.	3.1	22
78	Safe(r) by design implementation in the nanotechnology industry. <i>NanoImpact</i> , 2020, 20, 100267.	4.5	22
79	Carbon Black Nanoparticles and Other Problematic Constituents of Black Ink and Their Potential to Harm Tattooed Humans. <i>Current Problems in Dermatology</i> , 2015, 48, 170-175.	0.7	20
80	Commentary: the chronic inhalation study in rats for assessing lung cancer risk may be better than its reputation. <i>Particle and Fibre Toxicology</i> , 2019, 16, 44.	6.2	20
81	Pulmonary toxicity of synthetic amorphous silica – effects of porosity and copper oxide doping. <i>Nanotoxicology</i> , 2021, 15, 96-113.	3.0	20
82	Genotoxicity of multi-walled carbon nanotube reference materials in mammalian cells and animals. <i>Mutation Research - Reviews in Mutation Research</i> , 2021, 788, 108393.	5.5	20
83	Reactive oxygen species production, genotoxicity and telomere length in FE1-Muta ⁺ Mouse lung epithelial cells exposed to carbon nanotubes. <i>Nanotoxicology</i> , 2021, 15, 661-672.	3.0	18
84	Pro-inflammatory response and genotoxicity caused by clay and graphene nanomaterials in A549 and THP-1 cells. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2021, 872, 503405.	1.7	18
85	Effect of Renewable Fuels and Intake O ₂ Concentration on Diesel Engine Emission Characteristics and Reactive Oxygen Species (ROS) Formation. <i>Atmosphere</i> , 2020, 11, 641.	2.3	17
86	Inflammation and Vascular Effects after Repeated Intratracheal Instillations of Carbon Black and Lipopolysaccharide. <i>PLoS ONE</i> , 2016, 11, e0160731.	2.5	17
87	Carbon Black Nanoparticle Intratracheal Instillation Does Not Alter Cardiac Gene Expression. <i>Cardiovascular Toxicology</i> , 2013, 13, 406-412.	2.7	14
88	Development of a standard operating procedure for the DCFH ₂ -DA acellular assessment of reactive oxygen species produced by nanomaterials. <i>Toxicology Mechanisms and Methods</i> , 2022, 32, 439-452.	2.7	14
89	Reactive Oxygen Species in the Adverse Outcome Pathway Framework: Toward Creation of Harmonized Consensus Key Events. <i>Frontiers in Toxicology</i> , 0, 4, .	3.1	14
90	Organomodified nanoclays induce less inflammation, acute phase response, and genotoxicity than pristine nanoclays in mice lungs. <i>Nanotoxicology</i> , 2020, 14, 869-892.	3.0	13

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91	Inflammatory Response, Reactive Oxygen Species Production and DNA Damage in Mice After Intrapleural Exposure to Carbon Nanotubes. <i>Toxicological Sciences</i> , 2021, 183, 184-194.	3.1	11
92	Hepatic toxicity assessment of cationic liposome exposure in healthy and chronic alcohol fed mice. <i>Heliyon</i> , 2017, 3, e00458.	3.2	9
93	Accelerated atherosclerosis caused by serum amyloid A response in lungs of ApoE ^{−/−} mice. <i>FASEB Journal</i> , 2021, 35, e21307.	0.5	8
94	A Review of the Current State of Nanomedicines for Targeting and Treatment of Cancers: Achievements and Future Challenges. <i>Advanced Therapeutics</i> , 2021, 4, 2000186.	3.2	7
95	Mutagenicity of Carbon Nanomaterials. <i>Journal of Biomedical Nanotechnology</i> , 2011, 7, 29-29.	1.1	5
96	Distribution, metabolism, excretion, and toxicity of implanted silver: a review. <i>Drug and Chemical Toxicology</i> , 2022, 45, 2388-2397.	2.3	5
97	A response to the letter to the editor by Driscoll et al.. <i>Particle and Fibre Toxicology</i> , 2020, 17, 32.	6.2	2
98	Developmental Toxicity of Engineered Nanomaterials. , 2017, , 333-357.		1
99	Acute hazard assessment of silver nanoparticles following intratracheal instillation, oral and intravenous injection exposures. <i>Nanotoxicology</i> , 2022, , 1-17.	3.0	1
100	Developmental toxicity of engineered nanomaterials. , 2022, , 285-305.		0