

Nicklas Raun Jacobsen

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.

99 papers	5,475 citations	45 h-index	72 g-index
101 ext. papers	6,119 ext. citations	5.2 avg, IF	5.35 L-index

#	Paper	IF	Citations
99	Genotoxicity, cytotoxicity, and reactive oxygen species induced by single-walled carbon nanotubes and C(60) fullerenes in the FE1-Mutatrade markMouse lung epithelial cells. <i>Environmental and Molecular Mutagenesis</i> , 2008 , 49, 476-87	3.2	311
98	Role of oxidative damage in toxicity of particulates. <i>Free Radical Research</i> , 2010 , 44, 1-46	4	307
97	Lung inflammation and genotoxicity following pulmonary exposure to nanoparticles in ApoE-/- mice. <i>Particle and Fibre Toxicology</i> , 2009 , 6, 2	8.4	233
96	Oxidatively damaged DNA in rats exposed by oral gavage to C60 fullerenes and single-walled carbon nanotubes. <i>Environmental Health Perspectives</i> , 2009 , 117, 703-8	8.4	191
95	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	8.4	181
94	Bioaccumulation and ecotoxicity of carbon nanotubes. <i>Chemistry Central Journal</i> , 2013 , 7, 154		179
93	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	4.6	134
92	Carbon black nanoparticle instillation induces sustained inflammation and genotoxicity in mouse lung and liver. <i>Particle and Fibre Toxicology</i> , 2012 , 9, 5	8.4	132
91	Increased mutant frequency by carbon black, but not quartz, in the lacZ and cII transgenes of muta mouse lung epithelial cells. <i>Environmental and Molecular Mutagenesis</i> , 2007 , 48, 451-61	3.2	119
90	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	5.3	118
89	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	5.7	116
88	Biodistribution of gold nanoparticles in mouse lung following intratracheal instillation. <i>Chemistry Central Journal</i> , 2009 , 3, 16		111
87	Inflammatory and genotoxic effects of nanoparticles designed for inclusion in paints and lacquers. <i>Nanotoxicology</i> , 2012 , 6, 453-71	5.3	104
86	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	8.6	96
85	Nanotitanium dioxide toxicity in mouse lung is reduced in sanding dust from paint. <i>Particle and Fibre Toxicology</i> , 2012 , 9, 4	8.4	93
84	Particle-induced pulmonary acute phase response correlates with neutrophil influx linking inhaled particles and cardiovascular risk. <i>PLoS ONE</i> , 2013 , 8, e69020	3.7	88
83	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	3.3	88

82	Vascular effects of multiwalled carbon nanotubes in dyslipidemic ApoE ^{-/-} mice and cultured endothelial cells. <i>Toxicological Sciences</i> , 2014 , 138, 104-16	4.4	86
81	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, 474-84	4.4	86
80	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, 250-62	4.6	83
79	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	8.4	81
78	Pulmonary exposure to carbon black nanoparticles and vascular effects. <i>Particle and Fibre Toxicology</i> , 2010 , 7, 33	8.4	81
77	Role of oxidative stress in carbon nanotube-generated health effects. <i>Archives of Toxicology</i> , 2014 , 88, 1939-64	5.8	79
76	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, 517-31	9.2	76
75	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, 1013-22	5.3	75
74	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, 574-85	4.4	75
73	Genotoxicity of unmodified and organo-modified montmorillonite. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2010 , 700, 18-25	3	74
72	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	3.7	71
71	Inflammatory and genotoxic effects of sanding dust generated from nanoparticle-containing paints and lacquers. <i>Nanotoxicology</i> , 2012 , 6, 776-88	5.3	70
70	Validation of freezing tissues and cells for analysis of DNA strand break levels by comet assay. <i>Mutagenesis</i> , 2013 , 28, 699-707	2.8	63
69	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	4.7	62
68	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, 41-9	3.2	62
67	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, 469-82	3.2	62
66	XRCC3 polymorphisms and risk of lung cancer. <i>Cancer Letters</i> , 2004 , 213, 67-72	9.9	60
65	Mutation spectrum in FE1-MUTA(TM) Mouse lung epithelial cells exposed to nanoparticulate carbon black. <i>Environmental and Molecular Mutagenesis</i> , 2011 , 52, 331-7	3.2	57

64	Measurement of oxidative damage to DNA in nanomaterial exposed cells and animals. <i>Environmental and Molecular Mutagenesis</i> , 2015 , 56, 97-110	3.2	53
63	Diesel exhaust particles are mutagenic in FE1-MutaMouse lung epithelial cells. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2008 , 641, 54-7	3.3	53
62	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	3.7	52
61	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, 210-22	4.6	51
60	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	8.4	49
59	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, 437-76 ^{5.7}		49
58	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	3	48
57	Transcriptional profiling identifies physicochemical properties of nanomaterials that are determinants of the in vivo pulmonary response. <i>Environmental and Molecular Mutagenesis</i> , 2015 , 56, 245-64	3.2	48
56	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	3.1	48
55	Biodistribution of Carbon Nanotubes in Animal Models. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2017 , 121 Suppl 3, 30-43	3.1	46
54	Comparative hazard identification by a single dose lung exposure of zinc oxide and silver nanomaterials in mice. <i>PLoS ONE</i> , 2015 , 10, e0126934	3.7	45
53	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, 464-9	4	44
52	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, 462-8	3.2	42
51	Impact of serum as a dispersion agent for in vitro and in vivo toxicological assessments of TiO nanoparticles. <i>Archives of Toxicology</i> , 2017 , 91, 353-363	5.8	41
50	Primary genotoxicity in the liver following pulmonary exposure to carbon black nanoparticles in mice. <i>Particle and Fibre Toxicology</i> , 2018 , 15, 2	8.4	40
49	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	2.8	40
48	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, 573-88	4.6	40
47	Effects of physicochemical properties of TiO nanomaterials for pulmonary inflammation, acute phase response and alveolar proteinosis in intratracheally exposed mice. <i>Toxicology and Applied Pharmacology</i> , 2020 , 386, 114830	4.6	38

46	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	3	36
45	Pulmonary toxicity of silver vapours, nanoparticles and fine dusts: A review. <i>Regulatory Toxicology and Pharmacology</i> , 2020 , 115, 104690	3-4	34
44	Cardiovascular health effects of oral and pulmonary exposure to multi-walled carbon nanotubes in ApoE-deficient mice. <i>Toxicology</i> , 2016 , 371, 29-40	4-4	34
43	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> , 2016 , 13, 37	8-4	34
42	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, 1149-53	4-6	34
41	Weight of evidence analysis for assessing the genotoxic potential of carbon nanotubes. <i>Critical Reviews in Toxicology</i> , 2017 , 47, 867-884	5-7	33
40	Nanomaterial grouping: Existing approaches and future recommendations. <i>NanoImpact</i> , 2019 , 16, 1001836	3-6	32
39	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	2-8	30
38	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	2-8	30
37	Monocyte adhesion induced by multi-walled carbon nanotubes and palmitic acid in endothelial cells and alveolar-endothelial co-cultures. <i>Nanotoxicology</i> , 2016 , 10, 235-44	5-3	29
36	Acute phase response and inflammation following pulmonary exposure to low doses of zinc oxide nanoparticles in mice. <i>Nanotoxicology</i> , 2019 , 13, 1275-1292	5-3	24
35	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	8-4	24
34	Towards FAIR nanosafety data. <i>Nature Nanotechnology</i> , 2021 , 16, 644-654	28-7	23
33	Time-dependent subcellular distribution and effects of carbon nanotubes in lungs of mice. <i>PLoS ONE</i> , 2015 , 10, e0116481	3-7	22
32	Acute Phase Response as a Biological Mechanism-of-Action of (Nano)particle-Induced Cardiovascular Disease. <i>Small</i> , 2020 , 16, e1907476	11	21
31	Insights into possibilities for grouping and read-across for nanomaterials in EU chemicals legislation. <i>Nanotoxicology</i> , 2019 , 13, 119-141	5-3	21
30	Hepatic Hazard Assessment of Silver Nanoparticle Exposure in Healthy and Chronically Alcohol Fed Mice. <i>Toxicological Sciences</i> , 2017 , 158, 176-187	4-4	20
29	FIB-SEM imaging of carbon nanotubes in mouse lung tissue. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 3863-73	4-4	20

28	Identification of Gene Transcription Start Sites and Enhancers Responding to Pulmonary Carbon Nanotube Exposure in Vivo. <i>ACS Nano</i> , 2017 , 11, 3597-3613	16.7	17
27	Toxicity of pristine and paint-embedded TiO nanomaterials. <i>Human and Experimental Toxicology</i> , 2019 , 38, 11-24	3.4	17
26	Safe(r) by design implementation in the nanotechnology industry. <i>NanoImpact</i> , 2020 , 20, 100267	5.6	16
25	Inflammation and Vascular Effects after Repeated Intratracheal Instillations of Carbon Black and Lipopolysaccharide. <i>PLoS ONE</i> , 2016 , 11, e0160731	3.7	14
24	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	8.4	14
23	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	8.4	14
22	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	4.6	14
21	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, 170-5		13
20	Carbon black nanoparticle intratracheal instillation does not alter cardiac gene expression. <i>Cardiovascular Toxicology</i> , 2013 , 13, 406-12	3.4	13
19	Pulmonary toxicity of FeO, ZnFeO, NiFeO and NiZnFeO nanomaterials: Inflammation and DNA strand breaks. <i>Environmental Toxicology and Pharmacology</i> , 2020 , 74, 103303	5.8	13
18	In vitro-in vivo correlations of pulmonary inflammogenicity and genotoxicity of MWCNT. <i>Particle and Fibre Toxicology</i> , 2021 , 18, 25	8.4	13
17	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	2.7	11
16	Hepatic toxicity assessment of cationic liposome exposure in healthy and chronic alcohol fed mice. <i>Heliyon</i> , 2017 , 3, e00458	3.6	9
15	Reactive oxygen species production, genotoxicity and telomere length in FE1-MutaMouse lung epithelial cells exposed to carbon nanotubes. <i>Nanotoxicology</i> , 2021 , 15, 661-672	5.3	8
14	Mutagenicity of carbon nanomaterials. <i>Journal of Biomedical Nanotechnology</i> , 2011 , 7, 29	4	5
13	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	3.5	5
12	Organomodified nanoclays induce less inflammation, acute phase response, and genotoxicity than pristine nanoclays in mice lungs. <i>Nanotoxicology</i> , 2020 , 14, 869-892	5.3	4
11	Genotoxicity of multi-walled carbon nanotube reference materials in mammalian cells and animals. <i>Mutation Research - Reviews in Mutation Research</i> , 2021 , 788, 108393	7	3

10	Pulmonary toxicity of synthetic amorphous silica - effects of porosity and copper oxide doping. <i>Nanotoxicology</i> , 2021 , 15, 96-113	5.3	3
9	Development of a standard operating procedure for the DCFH-DA acellular assessment of reactive oxygen species produced by nanomaterials.. <i>Toxicology Mechanisms and Methods</i> , 2022 , 1-14	3.6	2
8	A response to the letter to the editor by Driscoll et al. <i>Particle and Fibre Toxicology</i> , 2020 , 17, 32	8.4	2
7	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	4.9	2
6	Accelerated atherosclerosis caused by serum amyloid A response in lungs of ApoE mice. <i>FASEB Journal</i> , 2021 , 35, e21307	0.9	2
5	Developmental Toxicity of Engineered Nanomaterials 2017 , 333-357		1
4	Acute hazard assessment of silver nanoparticles following intratracheal instillation, oral and intravenous injection exposures.. <i>Nanotoxicology</i> , 2022 , 1-17	5.3	1
3	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	4.4	1
2	Distribution, metabolism, excretion, and toxicity of implanted silver: a review. <i>Drug and Chemical Toxicology</i> , 2021 , 1-10	2.3	0
1	Developmental toxicity of engineered nanomaterials 2022 , 285-305		