

# Wendel Wohlleben

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8183637/publications.pdf>

Version: 2024-02-01

165  
papers

8,354  
citations

38720

50  
h-index

51562

86  
g-index

170  
all docs

170  
docs citations

170  
times ranked

8765  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum control of energy flow in light harvesting. <i>Nature</i> , 2002, 417, 533-535.	13.7	648
2	Testing Metalâ€Oxide Nanomaterials for Human Safety. <i>Advanced Materials</i> , 2010, 22, 2601-2627.	11.1	348
3	Tissue distribution and toxicity of intravenously administered titanium dioxide nanoparticles in rats. <i>Archives of Toxicology</i> , 2008, 82, 151-157.	1.9	347
4	Estimating the effective density of engineered nanomaterials for in vitro dosimetry. <i>Nature Communications</i> , 2014, 5, 3514.	5.8	247
5	A decision-making framework for the grouping and testing of nanomaterials (DF4nanoGrouping). <i>Regulatory Toxicology and Pharmacology</i> , 2015, 71, S1-S27.	1.3	217
6	Release characteristics of selected carbon nanotube polymer composites. <i>Carbon</i> , 2014, 68, 33-57.	5.4	216
7	Microplastic regulation should be more precise to incentivize both innovation and environmental safety. <i>Nature Communications</i> , 2020, 11, 5324.	5.8	213
8	Acute and chronic effects of nano- and non-nano-scale TiO <sub>2</sub> and ZnO particles on mobility and reproduction of the freshwater invertebrate <i>Daphnia magna</i> . <i>Chemosphere</i> , 2009, 76, 1356-1365.	4.2	212
9	Cytotoxicity screening of 23 engineered nanomaterials using a test matrix of ten cell lines and three different assays. <i>Particle and Fibre Toxicology</i> , 2011, 8, 9.	2.8	188
10	On the Lifecycle of Nanocomposites: Comparing Released Fragments and their Inâ€Vivo Hazards from Three Release Mechanisms and Four Nanocomposites. <i>Small</i> , 2011, 7, 2384-2395.	5.2	178
11	Toxico-/biokinetics of nanomaterials. <i>Archives of Toxicology</i> , 2012, 86, 1021-1060.	1.9	160
12	Comparative inhalation toxicity of multi-wall carbon nanotubes, graphene, graphite nanoplatelets and low surface carbon black. <i>Particle and Fibre Toxicology</i> , 2013, 10, 23.	2.8	155
13	Not ready to use â€“ overcoming pitfalls when dispersing nanoparticles in physiological media. <i>Nanotoxicology</i> , 2008, 2, 51-61.	1.6	148
14	Effects of SiO <sub>2</sub> , ZrO <sub>2</sub> , and BaSO <sub>4</sub> nanomaterials with or without surface functionalization upon 28-day oral exposure to rats. <i>Archives of Toxicology</i> , 2014, 88, 1881-1906.	1.9	142
15	Application of short-term inhalation studies to assess the inhalation toxicity of nanomaterials. <i>Particle and Fibre Toxicology</i> , 2014, 11, 16.	2.8	140
16	Elastic CNTâ€“polyurethane nanocomposite: synthesis, performance and assessment of fragments released during use. <i>Nanoscale</i> , 2013, 5, 369-380.	2.8	128
17	Multidimensional Analysis of Nanoparticles with Highly Disperse Properties Using Multiwavelength Analytical Ultracentrifugation. <i>ACS Nano</i> , 2014, 8, 8871-8886.	7.3	127
18	Grouping and Read-Across Approaches for Risk Assessment of Nanomaterials. <i>International Journal of Environmental Research and Public Health</i> , 2015, 12, 13415-13434.	1.2	122

#	ARTICLE	IF	CITATIONS
19	Gene toxicity studies on titanium dioxide and zinc oxide nanomaterials used for UV-protection in cosmetic formulations. <i>Nanotoxicology</i> , 2010, 4, 364-381.	1.6	118
20	Pump-Deplete-Probe Spectroscopy and the Puzzle of Carotenoid Dark States. <i>Journal of Physical Chemistry B</i> , 2004, 108, 3320-3325.	1.2	115
21	Coherent Control for Spectroscopy and Manipulation of Biological Dynamics. <i>ChemPhysChem</i> , 2005, 6, 850-857.	1.0	111
22	Airborne engineered nanomaterials in the workplace—a review of release and worker exposure during nanomaterial production and handling processes. <i>Journal of Hazardous Materials</i> , 2017, 322, 17-28.	6.5	108
23	Case studies putting the decision-making framework for the grouping and testing of nanomaterials (DF4nanoGrouping) into practice. <i>Regulatory Toxicology and Pharmacology</i> , 2016, 76, 234-261.	1.3	102
24	How reliably can a material be classified as a nanomaterial? Available particle-sizing techniques at work. <i>Journal of Nanoparticle Research</i> , 2016, 18, 158.	0.8	100
25	Toxicity of copper oxide and basic copper carbonate nanoparticles after short-term oral exposure in rats. <i>Nanotoxicology</i> , 2019, 13, 50-72.	1.6	94
26	Time course of lung retention and toxicity of inhaled particles: short-term exposure to nano-Ceria. <i>Archives of Toxicology</i> , 2014, 88, 2033-2059.	1.9	92
27	Actively shaped supercontinuum from a photonic crystal fiber for nonlinear coherent microspectroscopy. <i>Optics Letters</i> , 2006, 31, 413.	1.7	88
28	Multichannel Carotenoid Deactivation in Photosynthetic Light Harvesting as Identified by an Evolutionary Target Analysis. <i>Biophysical Journal</i> , 2003, 85, 442-450.	0.2	84
29	Scenarios and methods that induce protruding or released CNTs after degradation of nanocomposite materials. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1504.	0.8	82
30	A framework for grouping and read-across of nanomaterials- supporting innovation and risk assessment. <i>Nano Today</i> , 2020, 35, 100941.	6.2	80
31	Recombinantly produced hydrophobins from fungal analogues as highly surface-active performance proteins. <i>European Biophysics Journal</i> , 2010, 39, 457-468.	1.2	74
32	Quantitative rates of release from weathered nanocomposites are determined across 5 orders of magnitude by the matrix, modulated by the embedded nanomaterial. <i>NanoImpact</i> , 2016, 1, 39-45.	2.4	72
33	Pump-probe and pump-deplete-probe spectroscopies on carotenoids with N=9–15 conjugated bonds. <i>Journal of Chemical Physics</i> , 2006, 125, 194505.	1.2	71
34	Interaction of metal oxide nanoparticles with lung surfactant protein A. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2011, 77, 376-383.	2.0	71
35	Reliable nanomaterial classification of powders using the volume-specific surface area method. <i>Journal of Nanoparticle Research</i> , 2017, 19, 61.	0.8	70
36	Atomic Force Microscopy and Analytical Ultracentrifugation for Probing Nanomaterial Protein Interactions. <i>ACS Nano</i> , 2012, 6, 4603-4614.	7.3	69

#	ARTICLE	IF	CITATIONS
37	Biokinetics and effects of barium sulfate nanoparticles. <i>Particle and Fibre Toxicology</i> , 2014, 11, 55.	2.8	68
38	In vitro and in vivo genotoxicity investigations of differently sized amorphous SiO <sub>2</sub> nanomaterials. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2015, 794, 57-74.	0.9	65
39	Bioavailability, distribution and clearance of tracheally instilled, gavaged or injected cerium dioxide nanoparticles and ionic cerium. <i>Environmental Science: Nano</i> , 2014, 1, 561-573.	2.2	62
40	A novel 3D intestine barrier model to study the immune response upon exposure to microplastics. <i>Archives of Toxicology</i> , 2020, 94, 2463-2479.	1.9	61
41	Validity range of centrifuges for the regulation of nanomaterials: from classification to as-tested coronas. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1300.	0.8	59
42	Performance of a fast fiber based UV/Vis multiwavelength detector for the analytical ultracentrifuge. <i>Colloid and Polymer Science</i> , 2008, 286, 121-128.	1.0	56
43	Applicability of rat precision-cut lung slices in evaluating nanomaterial cytotoxicity, apoptosis, oxidative stress, and inflammation. <i>Toxicology and Applied Pharmacology</i> , 2014, 276, 1-20.	1.3	56
44	Realization of a Time-Domain Fresnel Lens with Coherent Control. <i>Physical Review Letters</i> , 2002, 89, 203003.	2.9	55
45	Thermal decomposition of nano-enabled thermoplastics: Possible environmental health and safety implications. <i>Journal of Hazardous Materials</i> , 2016, 305, 87-95.	6.5	55
46	Influence of agglomeration and specific lung lining lipid/protein interaction on short-term inhalation toxicity. <i>Nanotoxicology</i> , 2016, 10, 970-980.	1.6	55
47	Meeting the Needs for Released Nanomaterials Required for Further Testing – The SUN Approach. <i>Environmental Science &amp; Technology</i> , 2016, 50, 2747-2753.	4.6	55
48	The Open AUC Project. <i>European Biophysics Journal</i> , 2010, 39, 347-359.	1.2	54
49	Analytical methods to assess the oxidative potential of nanoparticles: a review. <i>Environmental Science: Nano</i> , 2017, 4, 1920-1934.	2.2	53
50	Abiotic dissolution rates of 24 (nano)forms of 6 substances compared to macrophage-assisted dissolution and in vivo pulmonary clearance: Grouping by biodissolution and transformation. <i>NanoImpact</i> , 2018, 12, 29-41.	2.4	52
51	NanoRelease: Pilot interlaboratory comparison of a weathering protocol applied to resilient and labile polymers with and without embedded carbon nanotubes. <i>Carbon</i> , 2017, 113, 346-360.	5.4	51
52	Measuring Nanomaterial Release from Carbon Nanotube Composites: Review of the State of the Science. <i>Journal of Physics: Conference Series</i> , 2015, 617, 012026.	0.3	50
53	Mechano-Optical Octave-Tunable Elastic Colloidal Crystals Made from Core-Shell Polymer Beads with Self-Assembly Techniques. <i>Langmuir</i> , 2007, 23, 2961-2969.	1.6	47
54	Surface modifications of silica nanoparticles are crucial for their inert versus proinflammatory and immunomodulatory properties. <i>International Journal of Nanomedicine</i> , 2014, 9, 2815.	3.3	46

#	ARTICLE	IF	CITATIONS
55	Simultaneous Identification of Spectral Properties and Sizes of Multiple Particles in Solution with Subnanometer Resolution. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11770-11774.	7.2	46
56	<i>In vitro</i> toxicology of ambient particulate matter: Correlation of cellular effects with particle size and components. <i>Environmental Toxicology</i> , 2013, 28, 76-86.	2.1	42
57	Safety assessment of nanomaterials using an advanced decision-making framework, the DF4nanoGrouping. <i>Journal of Nanoparticle Research</i> , 2017, 19, 171.	0.8	41
58	Single-beam CARS spectroscopy applied to low-wavenumber vibrational modes. <i>Journal of Raman Spectroscopy</i> , 2006, 37, 404-410.	1.2	39
59	An integrated methodology for the assessment of environmental health implications during thermal decomposition of nano-enabled products. <i>Environmental Science: Nano</i> , 2015, 2, 262-272.	2.2	39
60	Predicting dissolution and transformation of inhaled nanoparticles in the lung using abiotic flow cells: The case of barium sulfate. <i>Scientific Reports</i> , 2020, 10, 458.	1.6	39
61	Singlet versus triplet dynamics of $\hat{I}^2$ -carotene studied by quantum control spectroscopy. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006, 180, 314-321.	2.0	38
62	Release from nanomaterials during their use phase: combined mechanical and chemical stresses applied to simple and multi-filler nanocomposites mimicking wear of nano-reinforced tires. <i>Environmental Science: Nano</i> , 2016, 3, 1036-1051.	2.2	38
63	The nanoGRAVUR framework to group (nano)materials for their occupational, consumer, environmental risks based on a harmonized set of material properties, applied to 34 case studies. <i>Nanoscale</i> , 2019, 11, 17637-17654.	2.8	38
64	Toward Advancing Nano-Object Count Metrology: A Best Practice Framework. <i>Environmental Health Perspectives</i> , 2013, 121, 1282-1291.	2.8	36
65	Environmental Impacts by Fragments Released from Nanoenabled Products: A Multiassay, Multimaterial Exploration by the SUN Approach. <i>Environmental Science &amp; Technology</i> , 2018, 52, 1514-1524.	4.6	36
66	Influence of dispersive agent on nanomaterial agglomeration and implications for biological effects in vivo or in vitro. <i>Toxicology in Vitro</i> , 2015, 29, 182-186.	1.1	35
67	Nanoscale Coloristic Pigments: Upper Limits on Releases from Pigmented Plastic during Environmental Aging, In Food Contact, and by Leaching. <i>Environmental Science &amp; Technology</i> , 2017, 51, 11669-11680.	4.6	35
68	Transformations of Nanoenabled Copper Formulations Govern Release, Antifungal Effectiveness, and Sustainability throughout the Wood Protection Lifecycle. <i>Environmental Science &amp; Technology</i> , 2018, 52, 1128-1138.	4.6	34
69	Determination of the Surfactant Density on SWCNTs by Analytical Ultracentrifugation. <i>Chemistry - A European Journal</i> , 2010, 16, 13176-13184.	1.7	33
70	Understanding Dissolution Rates via Continuous Flow Systems with Physiologically Relevant Metal Ion Saturation in Lysosome. <i>Nanomaterials</i> , 2020, 10, 311.	1.9	33
71	A pilot interlaboratory comparison of protocols that simulate aging of nanocomposites and detect released fragments. <i>Environmental Chemistry</i> , 2014, 11, 402.	0.7	32
72	Assessment of the oxidative potential of nanoparticles by the cytochrome c assay: assay improvement and development of a high-throughput method to predict the toxicity of nanoparticles. <i>Archives of Toxicology</i> , 2017, 91, 163-177.	1.9	32

#	ARTICLE	IF	CITATIONS
73	Nano or Not Nano? A Structured Approach for Identifying Nanomaterials According to the European Commission's Definition. <i>Small</i> , 2020, 16, e2002228.	5.2	32
74	Investigation of Î²-carotene-gelatin composite particles with a multiwavelength UV/vis detector for the analytical ultracentrifuge. <i>European Biophysics Journal</i> , 2010, 39, 397-403.	1.2	31
75	Nanoparticle Surface Characterization and Clustering through Concentration-Dependent Surface Adsorption Modeling. <i>ACS Nano</i> , 2014, 8, 9446-9456.	7.3	31
76	End-of-life thermal decomposition of nano-enabled polymers: effect of nanofiller loading and polymer matrix on by-products. <i>Environmental Science: Nano</i> , 2016, 3, 1293-1305.	2.2	31
77	Redefining environmental nanomaterial flows: consequences of the regulatory nanomaterial definition on the results of environmental exposure models. <i>Environmental Science: Nano</i> , 2018, 5, 1372-1385.	2.2	31
78	Composition, Respirable Fraction and Dissolution Rate of 24 Stone Wool MMVF with their Binder. <i>Particle and Fibre Toxicology</i> , 2017, 14, 29.	2.8	30
79	Nanostructured calcium silicate hydrate seeds accelerate concrete hardening: a combined assessment of benefits and risks. <i>Archives of Toxicology</i> , 2012, 86, 1077-1087.	1.9	27
80	Robust Aqua Material: A Pressure-Resistant Self-Assembled Membrane for Water Purification. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 2203-2207.	7.2	27
81	Nanofiller Presence Enhances Polycyclic Aromatic Hydrocarbon (PAH) Profile on Nanoparticles Released during Thermal Decomposition of Nano-enabled Thermoplastics: Potential Environmental Health Implications. <i>Environmental Science &amp; Technology</i> , 2017, 51, 5222-5232.	4.6	26
82	Surface reactivity measurements as required for grouping and read-across: An advanced FRAS protocol. <i>Journal of Physics: Conference Series</i> , 2017, 838, 012033.	0.3	26
83	Enhanced Adsorption Affinity of Anionic Perylene-Based Surfactants towards Smaller Diameter SWCNTs. <i>Chemistry - A European Journal</i> , 2010, 16, 13185-13192.	1.7	25
84	Nanomaterial categorization by surface reactivity: A case study comparing 35 materials with four different test methods. <i>NanoImpact</i> , 2020, 19, 100234.	2.4	25
85	Identification of nanomaterials: A validation report of two laboratories using analytical ultracentrifugation with fixed and ramped speed options. <i>NanoImpact</i> , 2018, 10, 87-96.	2.4	23
86	How can we justify grouping of nanoforms for hazard assessment? Concepts and tools to quantify similarity. <i>NanoImpact</i> , 2022, 25, 100366.	2.4	23
87	In Vitro and In Vivo Short-Term Pulmonary Toxicity of Differently Sized Colloidal Amorphous SiO <sub>2</sub> . <i>Nanomaterials</i> , 2018, 8, 160.	1.9	22
88	Graphene/polymer nanocomposite degradation by ultraviolet light: The effects of graphene nanofillers and their potential for release. <i>Polymer Degradation and Stability</i> , 2020, 182, 109365.	2.7	22
89	Fragmentation of polymer nanocomposites: modulation by dry and wet weathering, fractionation, and nanomaterial filler. <i>Environmental Science: Nano</i> , 2020, 7, 1742-1758.	2.2	22
90	Shear and elongational flow behavior of acrylic thickener solutions. <i>Rheologica Acta</i> , 2008, 47, 999-1013.	1.1	21

#	ARTICLE	IF	CITATIONS
91	Quantitative human health risk assessment along the lifecycle of nano-scale copper-based wood preservatives. <i>Nanotoxicology</i> , 2018, 12, 747-765.	1.6	21
92	Variation in dissolution behavior among different nanoforms and its implication for grouping approaches in inhalation toxicity. <i>NanoImpact</i> , 2021, 23, 100341.	2.4	21
93	Influence of imperfections on the insulating and guiding properties of finite Si-inverted opal crystals. <i>Optics Express</i> , 2009, 17, 747.	1.7	20
94	Eye irritation testing of nanomaterials using the EpiOcular <sup>®</sup> eye irritation test and the bovine corneal opacity and permeability assay. <i>Particle and Fibre Toxicology</i> , 2015, 13, 18.	2.8	20
95	A Method to Assess the Relevance of Nanomaterial Dissolution during Reactivity Testing. <i>Materials</i> , 2020, 13, 2235.	1.3	20
96	Thermal decomposition/incineration of nano-enabled coatings and effects of nanofiller/matrix properties and operational conditions on byproduct release dynamics: Potential environmental health implications. <i>NanoImpact</i> , 2019, 13, 44-55.	2.4	19
97	A Universal Ultracentrifuge Spectrometer Visualizes CNT <sup>+</sup> “Intercalant <sup>+</sup> “Surfactant Complexes. <i>ChemPhysChem</i> , 2010, 11, 3224-3227.	1.0	18
98	Artifacts by marker enzyme adsorption on nanomaterials in cytotoxicity assays with tissue cultures. <i>Journal of Physics: Conference Series</i> , 2011, 304, 012061.	0.3	18
99	SUNDS probabilistic human health risk assessment methodology and its application to organic pigment used in the automotive industry. <i>NanoImpact</i> , 2019, 13, 26-36.	2.4	18
100	Rationale and decision rules behind the ECETOC NanoApp to support registration of sets of similar nanoforms within REACH. <i>Nanotoxicology</i> , 2021, 15, 145-166.	1.6	18
101	Comparative short-term inhalation toxicity of five organic diketopyrrolopyrrole pigments and two inorganic iron-oxide-based pigments. <i>Inhalation Toxicology</i> , 2016, 28, 463-479.	0.8	17
102	A redox proteomics approach to investigate the mode of action of nanomaterials. <i>Toxicology and Applied Pharmacology</i> , 2016, 299, 24-29.	1.3	17
103	Release of particulate matter from nano-enabled building materials (NEBMs) across their lifecycle: Potential occupational health and safety implications. <i>Journal of Hazardous Materials</i> , 2022, 422, 126771.	6.5	17
104	Covalent and Physical Cross-Linking of Photonic Crystals with 10-Fold-Enhanced Chemomechanical Stability. <i>Langmuir</i> , 2008, 24, 5627-5635.	1.6	16
105	Hydrophobin-Encapsulated Quantum Dots. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 4887-4893.	4.0	15
106	Ecotoxicological assessment of nanoparticle-containing acrylic copolymer dispersions in fairy shrimp and zebrafish embryos. <i>Environmental Science: Nano</i> , 2017, 4, 1981-1997.	2.2	15
107	Releases from transparent blue automobile coatings containing nanoscale copper phthalocyanine and their effects on J774 A1 macrophages. <i>NanoImpact</i> , 2017, 7, 75-83.	2.4	15
108	Understanding the impact of more realistic low-dose, prolonged engineered nanomaterial exposure on genotoxicity using 3D models of the human liver. <i>Journal of Nanobiotechnology</i> , 2021, 19, 193.	4.2	15

#	ARTICLE	IF	CITATIONS
109	Nanomaterials induce different levels of oxidative stress, depending on the used model system: Comparison of in vitro and in vivo effects. <i>Science of the Total Environment</i> , 2021, 801, 149538.	3.9	15
110	Distance-dependent fluorescence of tris(bipyridine)ruthenium(II) on supported plasmonic gold nanoparticle ensembles. <i>Nanoscale</i> , 2014, 6, 15134-15143.	2.8	14
111	Lung Toxicity Analysis of Nano-Sized Kaolin and Bentonite: Missing Indications for a Common Grouping. <i>Nanomaterials</i> , 2020, 10, 204.	1.9	14
112	Development of a standard operating procedure for the DCFH <sub>2</sub> -DA acellular assessment of reactive oxygen species produced by nanomaterials. <i>Toxicology Mechanisms and Methods</i> , 2022, 32, 439-452.	1.3	14
113	Short-Term Rat Inhalation Study With Aerosols of Acrylic Ester-Based Polymer Dispersions Containing a Fraction of Nanoparticles. <i>International Journal of Toxicology</i> , 2012, 31, 46-57.	0.6	13
114	Impact of freeze-thaw weathering on integrity, internal structure and particle release from micro- and nanostructured cement composites. <i>Environmental Science: Nano</i> , 2019, 6, 1443-1456.	2.2	13
115	Gut microbiome and plasma metabolome changes in rats after oral gavage of nanoparticles: sensitive indicators of possible adverse health effects. <i>Particle and Fibre Toxicology</i> , 2022, 19, 21.	2.8	13
116	Conductive plastics: comparing alternative nanotechnologies by performance and life cycle release probability. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	0.8	12
117	Reduction of Acute Inhalation Toxicity Testing in Rats: The Contact Angle of Organic Pigments Predicts Their Suffocation Potential. <i>Applied in Vitro Toxicology</i> , 2018, 4, 220-228.	0.6	12
118	Critical Choices in Predicting Stone Wool Biodurability: Lysosomal Fluid Compositions and Binder Effects. <i>Chemical Research in Toxicology</i> , 2021, 34, 780-792.	1.7	12
119	Nano-object Release During Machining of Polymer-Based Nanocomposites Depends on Process Factors and the Type of Nanofiller. <i>Annals of Work Exposures and Health</i> , 2017, 61, 1132-1144.	0.6	11
120	A technique-driven materials categorisation scheme to support regulatory identification of nanomaterials. <i>Nanoscale Advances</i> , 2019, 1, 781-791.	2.2	11
121	Simulating Nanomaterial Transformation in Cascaded Biological Compartments to Enhance the Physiological Relevance of In Vitro Dosing Regimes: Optional or Required?. <i>Small</i> , 2021, 17, e2004630.	5.2	11
122	Creating sets of similar nanoforms with the ECETOC NanoApp: real-life case studies. <i>Nanotoxicology</i> , 2021, 15, 1016-1034.	1.6	11
123	Sedimentation measurements with the analytical ultracentrifuge with absorption optics: influence of Mie scattering and absorption of the particles. <i>Colloid and Polymer Science</i> , 2011, 289, 1145-1155.	1.0	10
124	Determining nanoform similarity via assessment of surface reactivity by abiotic and in vitro assays. <i>NanoImpact</i> , 2022, 26, 100390.	2.4	10
125	Environmental release from automotive coatings are similar for different (nano)forms of pigments. <i>Environmental Science: Nano</i> , 2019, 6, 3039-3048.	2.2	9
126	Dosimetry <i>in vitro</i> – exploring the sensitivity of deposited dose predictions vs. affinity, polydispersity, freeze-thawing, and analytical methods. <i>Nanotoxicology</i> , 2021, 15, 21-34.	1.6	9



#	ARTICLE	IF	CITATIONS
127	The Use of Nanomaterial In Vivo Organ Burden Data for In Vitro Dose Setting. <i>Small</i> , 2021, 17, e2005725.	5.2	9
128	The Road to Achieving the European Commission's Chemicals Strategy for Nanomaterial Sustainability – A PATROLS Perspective on New Approach Methodologies. <i>Small</i> , 2022, 18, e2200231.	5.2	9
129	Possibilities to group nanomaterials across different substances – A case study on organic pigments. <i>NanoImpact</i> , 2022, 26, 100391.	2.4	8
130	Geeignete Methoden zur Prüfung der Sicherheit von Nanomaterialien. <i>Chemie-Ingenieur-Technik</i> , 2008, 80, 1641-1651.	0.4	7
131	NanoDefiner e-Tool: An Implemented Decision Support Framework for Nanomaterial Identification. <i>Materials</i> , 2019, 12, 3247.	1.3	7
132	Bayesian based similarity assessment of nanomaterials to inform grouping. <i>NanoImpact</i> , 2022, 25, 100389.	2.4	7
133	Comparison of Metal-Based Nanoparticles and Nanowires: Solubility, Reactivity, Bioavailability and Cellular Toxicity. <i>Nanomaterials</i> , 2022, 12, 147.	1.9	7
134	AUC and HDC characterization of heterogeneous polymer dispersions. <i>Colloid and Polymer Science</i> , 2008, 286, 149-157.	1.0	6
135	The Flows of Engineered Nanomaterials from Production, Use, and Disposal to the Environment. <i>Handbook of Environmental Chemistry</i> , 2015, , 209-231.	0.2	6
136	Addendum to – Abiotic dissolution rates of 24 (nano)forms of 6 substances compared to macrophage-assisted dissolution and in vivo pulmonary clearance: Grouping by biodissolution and transformation – [NanImpact 12 (2018) 29–41]. <i>NanoImpact</i> , 2019, 14, 100154.	2.4	6
137	Evaluating performance, degradation, and release behavior of a nanoform pigmented coating after natural and accelerated weathering. <i>NanoImpact</i> , 2020, 17, 100199.	2.4	6
138	Classes of organic pigments meet tentative PSLT criteria and lack toxicity in short-term inhalation studies. <i>Regulatory Toxicology and Pharmacology</i> , 2021, 124, 104988.	1.3	6
139	Refinement of the selection of physicochemical properties for grouping and read-across of nanoforms. <i>NanoImpact</i> , 2022, 25, 100375.	2.4	6
140	Aerogels are not regulated as nanomaterials, but can be assessed by tiered testing and grouping strategies for nanomaterials. <i>Nanoscale Advances</i> , 2021, 3, 3881-3893.	2.2	5
141	Transport of Metal Oxide Nanoparticles Across Calu-3 Cell Monolayers Modelling the Air-Blood Barrier. <i>EURO-NanoTox-Letters</i> , 2011, 3, 1-10.	1.0	5
142	Which fraction of stone wool fibre surface remains uncoated by binder? A detailed analysis by time-of-flight secondary ion mass spectrometry and X-ray photoelectron spectroscopy. <i>RSC Advances</i> , 2021, 11, 39545-39552.	1.7	5
143	Integrated approaches to testing and assessment for grouping nanomaterials following dermal exposure. <i>Nanotoxicology</i> , 2022, 16, 310-332.	1.6	5
144	Food contact of paper and plastic products containing SiO <sub>2</sub> , Cu-Phthalocyanine, Fe <sub>2</sub> O <sub>3</sub> , CaCO <sub>3</sub> : Ranking factors that control the similarity of form and rate of release. <i>NanoImpact</i> , 2022, 25, 100372.	2.4	4

#	ARTICLE	IF	CITATIONS
145	Dissolution Rate of Nanomaterials Determined by Ions and Particle Size under Lysosomal Conditions: Contributions to Standardization of Simulant Fluids and Analytical Methods. <i>Chemical Research in Toxicology</i> , 2022, 35, 963-980.	1.7	4
146	The NanoDefiner e-tool – A decision support framework for recommendation of suitable measurement techniques for the assessment of potential nanomaterials. , 2017, , .		3
147	Analytical centrifugation. , 2020, , 225-247.		3
148	Artificial Opals as Nanophotonic Materials for Optical Communication. , 2007, , .		2
149	Simultane Bestimmung spektraler Eigenschaften und Größen von multiplen Partikeln in Lösung mit Subnanometer-Auflösung. <i>Angewandte Chemie</i> , 2016, 128, 11944-11949.	1.6	2
150	Robuste –Aqua–Materialien – eine druckstabile, selbstorganisierte Membran zur Wasserreinigung. <i>Angewandte Chemie</i> , 2017, 129, 2237-2242.	1.6	2
151	Reply to the Comment on Critical Choices in Predicting Stone Wool Biodurability: Lysosomal Fluid Compositions and Binder Effects. <i>Chemical Research in Toxicology</i> , 2021, 34, 1697-1698.	1.7	2
152	Reproducibility of methods required to identify and characterize nanoforms of substances. <i>NanoImpact</i> , 2022, 27, 100410.	2.4	2
153	Classification Strategies for Regulatory Nanodefinitions. , 2014, , 47-58.		1
154	Investigating ion-release from nanocomposites in food simulant solutions: Case studies contrasting kaolin, CaCO <sub>3</sub> and Cu-phthalocyanine. <i>Food Packaging and Shelf Life</i> , 2020, 26, 100560.	3.3	1
155	Importance of the number emission factor of combustion-generated aerosols from nano-enabled products. <i>NanoImpact</i> , 2021, 22, 100307.	2.4	1
156	Actively shaped supercontinuum from a photonic crystal fiber for quantum control microspectroscopy. , 2006, , .		0
157	Nanotechnologie für das Smart Energy Home. <i>Chemie-Ingenieur-Technik</i> , 2008, 80, 1701-1704.	0.4	0
158	Photonic crystal waveguides in artificial opals. , 2008, , .		0
159	The preparation temperature influences the physicochemical nature and activity of nanoceria. <i>Beilstein Journal of Nanotechnology</i> , 2021, 12, 525-540.	1.5	0
160	Multiphoton quantum control spectroscopy of $\beta$ -carotene. , 2006, , .		0
161	Time-resolved Single-beam CARS with Shaped Supercontinuum from a Photonic Crystal Fiber. , 2006, , .		0
162	Multiphoton quantum control spectroscopy of $\beta$ -carotene. <i>Springer Series in Chemical Physics</i> , 2007, , 483-485.	0.2	0

#	ARTICLE	IF	CITATIONS
163	Time-resolved Single-beam CARS with Shaped Supercontinuum from a Photonic Crystal Fiber. Springer Series in Chemical Physics, 2007, , 813-815.	0.2	0
164	Evaluating performance, degradation, and release behavior of a nanoform pigmented coating after natural and accelerated weathering. NanolImpact, 2020, 17, .	2.4	0
165	Environmental considerations and current status of grouping and regulation of engineered nanomaterials. Environmental Nanotechnology, Monitoring and Management, 2022, 18, 100707.	1.7	0