# Peter Wick

## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2432378/publications.pdf

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|---|---|---|---|
| 115 papers | 10,462 citations | 50170 46 h-index | 31759 101 g-index |
| 121 all docs | 121 docs citations | 121 times ranked | 14408 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Divergent humoral responses in mild to moderate SARS-CoV-2 infection over time â€“ indication of persistence of the virus?. Journal of Infection, 2022, 84, 418-467. | 1.7 | 3 |
| 2 | Inâ€situ Investigations on Gold Nanoparticles Stabilization Mechanisms in Biological Environments Containing HSA. Advanced Functional Materials, 2022, 32, 2110253. | 7.8 | 8 |
| 3 | Assessing Genotoxicity of Ten Different Engineered Nanomaterials by the Novel Semi-Automated FADU Assay and the Alkaline Comet Assay. Nanomaterials, 2022, 12, 220. | 1.9 | 9 |
| 4 | Combined in vitro-in vivo dosimetry enables the extrapolation of in vitro doses to human exposure levels: A proof of concept based on a meta-analysis of in vitro and in vivo titanium dioxide toxicity data. NanoImpact, 2022, 25, 100376. | 2.4 | 6 |
| 5 | In vitro-based human toxicity effect factors: challenges and opportunities for nanomaterial impact assessment. Environmental Science: Nano, 2022, 9, 1913-1925. | 2.2 | 5 |
| 6 | Hazard assessment of abraded thermoplastic composites reinforced with reduced graphene oxide. Journal of Hazardous Materials, 2022, 435, 129053. | 6.5 | 16 |
| 7 | Evaluation of fiber and debris release from protective COVID-19 mask textiles and in vitro acute cytotoxicity effects. Environment International, 2022, 167, 107364. | 4.8 | 4 |
| 8 | A novel inactivated virus system (InViS) for a fast and inexpensive assessment of viral disintegration. Scientific Reports, 2022, 12, . | 1.6 | 2 |
| 9 | SARS-CoV-2 IgG and IgA antibody response is gender dependent; and IgG antibodies rapidly decline early on. Journal of Infection, 2021, 82, e11-e14. | 1.7 | 29 |
| 10 | Influence of ceftriaxone on human bone cell viability and in vitro mineralization potential is concentration- and time-dependent. Bone and Joint Research, 2021, 10, 218-225. | 1.3 | 6 |
| 11 | Placing nanoplastics in the context of global plastic pollution. Nature Nanotechnology, 2021, 16, 491-500. | 15.6 | 252 |
| 12 | Investigating the effects of differently produced synthetic amorphous silica (EÂ551) on the integrity and functionality of the human intestinal barrier using an advanced inÂvitro co-culture model. Archives of Toxicology, 2021, 95, 837-852. | 1.9 | 4 |
| 13 | Cause-and-Effect Analysis as a Tool To Improve the Reproducibility of Nanobioassays: Four Case Studies. Chemical Research in Toxicology, 2020, 33, 1039-1054. | 1.7 | 27 |
| 14 | Innovative Techniques and Strategies for a Reliable High-Throughput Genotoxicity Assessment. Chemical Research in Toxicology, 2020, 33, 283-285. | 1.7 | 3 |
| 15 | New approach for time-resolved and dynamic investigations on nanoparticles agglomeration. Nano Research, 2020, 13, 2847-2856. | 5.8 | 20 |
| 16 | Exploring Flow Cytometry-Based Micronucleus Scoring for Reliable Nanomaterial Genotoxicity Assessment. Chemical Research in Toxicology, 2020, 33, 2538-2549. | 1.7 | 16 |
| 17 | Editorial: Polymeric Nano-Biomaterials for Medical Applications: Advancements in Developing and Implementation Considering Safety-by-Design Concepts. Frontiers in Bioengineering and Biotechnology, 2020, 8, 599950. | 2.0 | 5 |
| 18 | Understanding Nanomaterial Biotransformation: An Unmet Challenge to Achieving Predictive Nanotoxicology. Small, 2020, 16, e1907650. | 5.2 | 20 |

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| 19 | The impact of synthetic amorphous silica (E 551) on differentiated Caco-2 cells, a model for the human intestinal epithelium. Toxicology in Vitro, 2020, 67, 104903. | 1.1 | 15 |
| 20 | Factors influencing safety and efficacy of intravenous iron-carbohydrate nanomedicines: From production to clinical practice. Nanomedicine: Nanotechnology, Biology, and Medicine, 2020, 26, 102178. | 1.7 | 31 |
| 21 | Relative potency factor approach enables the use of inÂvitro information for estimation of human effect factors for nanoparticle toxicity in life-cycle impact assessment. Nanotoxicology, 2020, 14, 275-286. | 1.6 | 13 |
| 22 | An integrated pathway based on in vitro data for the human hazard assessment of nanomaterials. Environment International, 2020, 137, 105505. | 4.8 | 43 |
| 23 | Release of graphene-related materials from epoxy-based composites: characterization, quantification and hazard assessment in vitro. Nanoscale, 2020, 12, 10703-10722. | 2.8 | 22 |
| 24 | A novel approach to increase robustness, precision and high-throughput capacity of single cell gel electrophoresis. ALTEX: Alternatives To Animal Experimentation, 2020, 1, 95-109. | 0.9 | 6 |
| 25 | Investigating the accumulation and translocation of titanium dioxide nanoparticles with different surface modifications in static and dynamic human placental transfer models. European Journal of Pharmaceutics and Biopharmaceutics, 2019, 142, 488-497. | 2.0 | 31 |
| 26 | Multi-endpoint toxicological assessment of polystyrene nano- and microparticles in different biological models in vitro. Toxicology in Vitro, 2019, 61, 104610. | 1.1 | 172 |
| 27 | On the issue of transparency and reproducibility in nanomedicine. Nature Nanotechnology, 2019, 14, 629-635. | 15.6 | 149 |
| 28 | Transfer and Metabolism of the Xenoestrogen Zearalenone in Human Perfused Placenta. Environmental Health Perspectives, 2019, 127, 107004. | 2.8 | 47 |
| 29 | Supramolecular Insights into Domino Effects of Ag@ZnO-Induced Oxidative Stress in Melanoma Cancer Cells. ACS Applied Materials & Interfaces, 2019, 11, 46408-46418. | 4.0 | 22 |
| 30 | Computational Assessment of the Pharmacological Profiles of Degradation Products of Chitosan. Frontiers in Bioengineering and Biotechnology, 2019, 7, 214. | 2.0 | 35 |
| 31 | Micronized copper-treated wood: copper remobilization into spores from the copper-tolerant wood-destroying fungus Rhodonia placenta. Environmental Science: Nano, 2019, 6, 425-431. | 2.2 | 2 |
| 32 | Hazard Assessment of Polymeric Nanobiomaterials for Drug Delivery: What Can We Learn From Literature So Far. Frontiers in Bioengineering and Biotechnology, 2019, 7, 261. | 2.0 | 62 |
| 33 | Nano-analytical characterization of endogenous minerals in healthy placental tissue: mineral distribution, composition and ultrastructure. Analyst, The, 2019, 144, 6850-6857. | 1.7 | 8 |
| 34 | Impact of graphene oxide on human placental trophoblast viability, functionality and barrier integrity. 2D Materials, 2018, 5, 035014. | 2.0 | 12 |
| 35 | An advanced human in vitro co-culture model for translocation studies across the placental barrier. Scientific Reports, 2018, 8, 5388. | 1.6 | 68 |
| 36 | Prenatal exposure to TiO2 nanoparticles in mice causes behavioral deficits with relevance to autism spectrum disorder and beyond. Translational Psychiatry, 2018, 8, 193. | 2.4 | 39 |

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|---|---|---|---|
| 37 | Interference of engineered nanomaterials in flow cytometry: A case study. Colloids and Surfaces B: Biointerfaces, 2018, 172, 635-645. | 2.5 | 23 |
| 38 | Safety Assessment of Graphene-Based Materials: Focus on Human Health and the Environment. ACS Nano, 2018, 12, 10582-10620. | 7.3 | 438 |
| 39 | Characterisation of particles in solution â€“ a perspective on light scattering and comparative technologies. Science and Technology of Advanced Materials, 2018, 19, 732-745. | 2.8 | 180 |
| 40 | Gold nanoparticle distribution in advanced in vitro and ex vivo human placental barrier models. Journal of Nanobiotechnology, 2018, 16, 79. | 4.2 | 48 |
| 41 | Acute effects of multi-walled carbon nanotubes on primary bronchial epithelial cells from COPD patients. Nanotoxicology, 2018, 12, 699-711. | 1.6 | 15 |
| 42 | Single exposure to aerosolized graphene oxide and graphene nanoplatelets did not initiate an acute biological response in a 3D human lung model. Carbon, 2018, 137, 125-135. | 5.4 | 31 |
| 43 | Transient DNA damage following exposure to gold nanoparticles. Nanoscale, 2018, 10, 15723-15735. | 2.8 | 44 |
| 44 | Developmental Toxicity of Nanomaterials: Need for a Better Understanding of Indirect Effects. Chemical Research in Toxicology, 2018, 31, 641-642. | 1.7 | 20 |
| 45 | Human Asthmatic Bronchial Cells Are More Susceptible to Subchronic Repeated Exposures of Aerosolized Carbon Nanotubes At Occupationally Relevant Doses Than Healthy Cells. ACS Nano, 2017, 11, 7615-7625. | 7.3 | 42 |
| 46 | Impact of particle size and surface modification on gold nanoparticle penetration into human placental microtissues. Nanomedicine, 2017, 12, 1119-1133. | 1.7 | 34 |
| 47 | Cytotoxic effects of nanosilver are highly dependent on the chloride concentration and the presence of organic compounds in the cell culture media. Journal of Nanobiotechnology, 2017, 15, 5. | 4.2 | 48 |
| 48 | Uptake of label-free graphene oxide by Caco-2 cells is dependent on the cell differentiation status. Journal of Nanobiotechnology, 2017, 15, 46. | 4.2 | 53 |
| 49 | MyD88-dependent pro-interleukin-1Î² induction in dendritic cells exposed to food-grade synthetic amorphous silica. Particle and Fibre Toxicology, 2017, 14, 21. | 2.8 | 36 |
| 50 | Toward achieving harmonization in a nanocytotoxicity assay measurement through an interlaboratory comparison study. ALTEX: Alternatives To Animal Experimentation, 2017, 34, 201-218. | 0.9 | 52 |
| 51 | Tracking immune-related cell responses to drug delivery microparticles in 3D dense collagen matrix. European Journal of Pharmaceutics and Biopharmaceutics, 2016, 107, 180-190. | 2.0 | 5 |
| 52 | Release of copper-amended particles from micronized copper-pressure-treated wood during mechanical abrasion. Journal of Nanobiotechnology, 2016, 14, 77. | 4.2 | 23 |
| 53 | Interaction of graphene-related materials with human intestinal cells: an in vitro approach. Nanoscale, 2016, 8, 8749-8760. | 2.8 | 37 |
| 54 | Macrophage Polarization by Titanium Dioxide (TiO<sub>2</sub>) Particles: Size Matters. ACS Biomaterials Science and Engineering, 2016, 2, 908-919. | 2.6 | 26 |

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| 55 | A 3D co-culture microtissue model of the human placenta for nanotoxicity assessment. Nanoscale, 2016, 8, 17322-17332. | 2.8 | 58 |
| 56 | Nanoparticle transport across the placental barrier: pushing the field forward!. Nanomedicine, 2016, 11, 941-957. | 1.7 | 101 |
| 57 | Penetration and Effectiveness of Micronized Copper in Refractory Wood Species. PLoS ONE, 2016, 11, e0163124. | 1.1 | 17 |
| 58 | Detection of Endotoxin Contamination of Graphene Based Materials Using the TNF-Î± Expression Test and Guidelines for Endotoxin-Free Graphene Oxide Production. PLoS ONE, 2016, 11, e0166816. | 1.1 | 84 |
| 59 | Scientific Basis for Regulatory Decision-Making of Nanomaterials Report on the Workshop, 20â€“21 January 2014, Center of Applied Ecotoxicology, DÃ¼bendorf. Chimia, 2015, 69, 52. | 0.3 | 4 |
| 60 | In vitro-ex vivo model systems for nanosafety assessment. European Journal of Nanomedicine, 2015, 7, . | 0.6 | 22 |
| 61 | Bidirectional Transfer Study of Polystyrene Nanoparticles across the Placental Barrier in an ex Vivo Human Placental Perfusion Model. Environmental Health Perspectives, 2015, 123, 1280-1286. | 2.8 | 125 |
| 62 | Micronized Copper Wood Preservatives: Efficacy of Ion, Nano, and Bulk Copper against the Brown Rot Fungus Rhodonia placenta. PLoS ONE, 2015, 10, e0142578. | 1.1 | 41 |
| 63 | Effect of particle agglomeration in nanotoxicology. Archives of Toxicology, 2015, 89, 659-675. | 1.9 | 121 |
| 64 | Micronized copper wood preservatives: An efficiency and potential health risk assessment for copper-based nanoparticles. Environmental Pollution, 2015, 200, 126-132. | 3.7 | 69 |
| 65 | Weathering of a carbon nanotube/epoxy nanocomposite under UV light and in water bath: impact on abraded particles. Nanoscale, 2015, 7, 18524-18536. | 2.8 | 32 |
| 66 | Repeated exposure to carbon nanotube-based aerosols does not affect the functional properties of a 3D human epithelial airway model. Nanotoxicology, 2015, 9, 983-993. | 1.6 | 46 |
| 67 | Carbon Nanotubes Released from an Epoxy-Based Nanocomposite: Quantification and Particle Toxicity. Environmental Science & Technology, 2015, 49, 10616-10623. | 4.6 | 70 |
| 68 | Transfer studies of polystyrene nanoparticles in theex vivohuman placenta perfusion model: key sources of artifacts. Science and Technology of Advanced Materials, 2015, 16, 044602. | 2.8 | 36 |
| 69 | Use of Cause-and-Effect Analysis to Design a High-Quality Nanocytotoxicology Assay. Chemical Research in Toxicology, 2015, 28, 21-30. | 1.7 | 65 |
| 70 | Advanced humanin vitromodels to assess metal oxide nanoparticle-cell interactions. MRS Bulletin, 2014, 39, 984-989. | 1.7 | 15 |
| 71 | A Comparative Study of Different In Vitro Lung Cell Culture Systems to Assess the Most Beneficial Tool for Screening the Potential Adverse Effects of Carbon Nanotubes. Toxicological Sciences, 2014, 137, 55-64. | 1.4 | 65 |
| 72 | Classification Framework for Grapheneâ€Based Materials. Angewandte Chemie - International Edition, 2014, 53, 7714-7718. | 7.2 | 369 |

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|---|---|---|---|
| 73 | Concern-driven integrated approaches to nanomaterial testing and assessment â€“ report of the NanoSafety Cluster Working Group 10. Nanotoxicology, 2014, 8, 334-348. | 1.6 | 118 |
| 74 | Addition of nanoscaledbioinspiredsurface features: A revolution for bone related implants and scaffolds?. Journal of Biomedical Materials Research - Part A, 2014, 102, 275-294. | 2.1 | 48 |
| 75 | The Role of the Protein Corona in Fiber Structure-Activity Relationships. Fibers, 2014, 2, 187-210. | 1.8 | 4 |
| 76 | Can the Ames test provide an insight into nano-object mutagenicity? Investigating the interaction between nano-objects and bacteria. Nanotoxicology, 2013, 7, 1373-1385. | 1.6 | 40 |
| 77 | Few-Layer Graphene Shells and Nonmagnetic Encapsulates: A Versatile and Nontoxic Carbon Nanomaterial. ACS Nano, 2013, 7, 10552-10562. | 7.3 | 46 |
| 78 | Toward the Development of Decision Supporting Tools That Can Be Used for Safe Production and Use of Nanomaterials. Accounts of Chemical Research, 2013, 46, 863-872. | 7.6 | 54 |
| 79 | Is nanotechnology revolutionizing the paint and lacquer industry? A critical opinion. Science of the Total Environment, 2013, 442, 282-289. | 3.9 | 90 |
| 80 | In vitromechanistic study towards a better understanding of ZnO nanoparticle toxicity. Nanotoxicology, 2013, 7, 402-416. | 1.6 | 138 |
| 81 | Interlaboratory comparison of size measurements on nanoparticles using nanoparticle tracking analysis (NTA). Journal of Nanoparticle Research, 2013, 15, 2101. | 0.8 | 163 |
| 82 | Assessing the impact of the physical properties of industrially produced carbon nanotubes on their interaction with human primary macrophages in vitro. BioNanoMaterials, 2013, 14, . | 1.4 | 4 |
| 83 | Comparability of in Vitro Tests for Bioactive Nanoparticles: A Common Assay to Detect Reactive Oxygen Species as an Example. International Journal of Molecular Sciences, 2013, 14, 24320-24337. | 1.8 | 76 |
| 84 | Editorial by the guest editors. BioNanoMaterials, 2013, 14, 3. | 1.4 | 1 |
| 85 | Determination of the Transport Rate of Xenobiotics and Nanomaterials Across the Placenta using the <em>ex vivo</em> Human Placental Perfusion Model. Journal of Visualized Experiments, 2013, , . | 0.2 | 34 |
| 86 | Gene Expression Profiling of Immune-Competent Human Cells Exposed to Engineered Zinc Oxide or Titanium Dioxide Nanoparticles. PLoS ONE, 2013, 8, e68415. | 1.1 | 94 |
| 87 | Human Health Risk of Ingested Nanoparticles That Are Added as Multifunctional Agents to Paints: an In Vitro Study. PLoS ONE, 2013, 8, e83215. | 1.1 | 48 |
| 88 | Engineered nanomaterial uptake and tissue distribution: from cell to organism. International Journal of Nanomedicine, 2013, 8, 3255. | 3.3 | 136 |
| 89 | Pulmonary surfactant coating of multi-walled carbon nanotubes (MWCNTs) influences their oxidative and pro-inflammatory potential in vitro. Particle and Fibre Toxicology, 2012, 9, 17. | 2.8 | 76 |
| 90 | Interactions with the Human Body. , 2012, , 3-24. | | 9 |

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|---|---|---|---|
| 91 | Knocking at the door of the unborn child: engineered nanoparticles at the human placental barrier. Swiss Medical Weekly, 2012, 142, w13559. | 0.8 | 45 |
| 92 | Investigating the Interaction of Cellulose Nanofibers Derived from Cotton with a Sophisticated 3D Human Lung Cell Coculture. Biomacromolecules, 2011, 12, 3666-3673. | 2.6 | 183 |
| 93 | Environmental and health effects of nanomaterials in nanotextiles and faÃ§ade coatings. Environment International, 2011, 37, 1131-1142. | 4.8 | 209 |
| 94 | A comparison of acute and long-term effects of industrial multiwalled carbon nanotubes on human lung and immune cells in vitro. Toxicology Letters, 2011, 200, 176-186. | 0.4 | 143 |
| 95 | Nanomaterial cell interactions: are current in vitro tests reliable?. Nanomedicine, 2011, 6, 837-847. | 1.7 | 61 |
| 96 | A Brief Summary of Carbon Nanotubes Science and Technology: A Health and Safety Perspective. ChemSusChem, 2011, 4, 905-911. | 3.6 | 37 |
| 97 | Nanotoxikologie - eine interdisziplinÃre Herausforderung. Angewandte Chemie, 2011, 123, 1294-1314. | 1.6 | 25 |
| 98 | Nanotoxicology: An Interdisciplinary Challenge. Angewandte Chemie - International Edition, 2011, 50, 1260-1278. | 7.2 | 466 |
| 99 | The automated FADU-assay, a potential high-throughput in vitro method for early screening of DNA breakage. ALTEX: Alternatives To Animal Experimentation, 2011, 28, 295-303. | 0.9 | 42 |
| 100 | The adsorption of biomolecules to multi-walled carbon nanotubes is influenced by both pulmonary surfactant lipids and surface chemistry. Journal of Nanobiotechnology, 2010, 8, 31. | 4.2 | 90 |
| 101 | Barrier Capacity of Human Placenta for Nanosized Materials. Environmental Health Perspectives, 2010, 118, 432-436. | 2.8 | 465 |
| 102 | Oxidative stress and inflammation response after nanoparticle exposure: differences between human lung cell monocultures and an advanced three-dimensional model of the human epithelial airways. Journal of the Royal Society Interface, 2010, 7, S27-40. | 1.5 | 137 |
| 103 | Nanomaterial cell interactions: how do carbon nanotubes affect cell physiology?. Nanomedicine, 2009, 4, 57-63. | 1.7 | 19 |
| 104 | Comprehensive evaluation ofin vitrotoxicity of three large-scale produced carbon nanotubes on human Jurkat T cells and a comparison to crocidolite asbestos. Nanotoxicology, 2009, 3, 319-338. | 1.6 | 39 |
| 105 | Effects of carbon nanotubes on primary neurons and glial cells. NeuroToxicology, 2009, 30, 702-711. | 1.4 | 166 |
| 106 | Single walled carbon nanotubes (SWCNT) affect cell physiology and cell architecture. Journal of Materials Science: Materials in Medicine, 2008, 19, 1523-1527. | 1.7 | 69 |
| 107 | Effects of combustion-derived ultrafine particles and manufactured nanoparticles on heart cells in vitro. Toxicology, 2008, 253, 70-78. | 2.0 | 63 |
| 108 | Reviewing the environmental and human health knowledge base of carbon nanotubes. Ciencia E Saude Coletiva, 2008, 13, 441-452. | 0.1 | 39 |

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| 109 | Multifunctional Nanocomposite Plasma Coatings: Enabling New Biomaterials Applications. Materials Research Society Symposia Proceedings, 2007, 1056, 1. | 0.1 | 0 |
| 110 | Reviewing the Environmental and Human Health Knowledge Base of Carbon Nanotubes. Environmental Health Perspectives, 2007, 115, 1125-1131. | 2.8 | 364 |
| 111 | The degree and kind of agglomeration affect carbon nanotube cytotoxicity. Toxicology Letters, 2007, 168, 121-131. | 0.4 | 732 |
| 112 | Exposure of Engineered Nanoparticles to Human Lung Epithelial Cells:Â Influence of Chemical Composition and Catalytic Activity on Oxidative Stress. Environmental Science & Technology, 2007, 41, 4158-4163. | 4.6 | 785 |
| 113 | The reliability and limits of the MTT reduction assay for carbon nanotubesâ€“cell interaction. Carbon, 2007, 45, 2643-2648. | 5.4 | 175 |
| 114 | In Vitro Cytotoxicity of Oxide Nanoparticles:Â Comparison to Asbestos, Silica, and the Effect of Particle Solubilityâ€. Environmental Science & Technology, 2006, 40, 4374-4381. | 4.6 | 1,207 |
| 115 | Approach toward In Vitro-Based Human Toxicity Effect Factors for the Life Cycle Impact Assessment of Inhaled Low-Solubility Particles. Environmental Science & Technology, 0, , . | 4.6 | 0 |