Tina Buerki-Thurnherr

List of Publications by Year
in descending order

51 papers	3,060 citations	159358 30 h-index	182168 51 g-index
52 all docs	52 docs citations	52 times ranked	4586 citing authors

#	Article	IF	Citations
1	Safety Assessment of Graphene-Based Materials: Focus on Human Health and the Environment. ACS Nano, 2018, 12, 10582-10620.	7.3	438
2	Essential and distinct roles for cdc42 and rac1 in the regulation of Schwann cell biology during peripheral nervous system development. Journal of Cell Biology, 2007, 177, 1051-1061.	2.3	172
3	Efficient internalization of silica-coated iron oxide nanoparticles of different sizes by primary human macrophages and dendritic cells. Toxicology and Applied Pharmacology, 2011, 253, 81-93.	1.3	172
4	Multi-endpoint toxicological assessment of polystyrene nano- and microparticles in different biological models in vitro. Toxicology in Vitro, 2019, 61, 104610.	1.1	172
5	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
6	<i>In vitro</i>mechanistic study towards a better understanding of ZnO nanoparticle toxicity. Nanotoxicology, 2013, 7, 402-416.	1.6	138
7	Bidirectional Transfer Study of Polystyrene Nanoparticles across the Placental Barrier in an <i>ex Vivo</i> Human Placental Perfusion Model. Environmental Health Perspectives, 2015, 123, 1280-1286.	2.8	125
8	Cdc42 and Rac1 Signaling Are Both Required for and Act Synergistically in the Correct Formation of Myelin Sheaths in the CNS. Journal of Neuroscience, 2006, 26, 10110-10119.	1.7	120
9	Integrin-linked kinase is required for radial sorting of axons and Schwann cell remyelination in the peripheral nervous system. Journal of Cell Biology, 2009, 185, 147-161.	2.3	111
10	Â1-Integrin Signaling Mediates Premyelinating Oligodendrocyte Survival But Is Not Required for CNS Myelination and Remyelination. Journal of Neuroscience, 2006, 26, 7665-7673.	1.7	106
11	Nanoparticle transport across the placental barrier: pushing the field forward!. Nanomedicine, 2016, 11, 941-957.	1.7	101
12	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
13	Effects of subtoxic concentrations of TiO2 and ZnO nanoparticles on human lymphocytes, dendritic cells and exosome production. Toxicology and Applied Pharmacology, 2012, 264, 94-103.	1.3	82
14	Carbon Nanotubes Released from an Epoxy-Based Nanocomposite: Quantification and Particle Toxicity. Environmental Science & Technology, 2015, 49, 10616-10623.	4.6	70
15	An advanced human in vitro co-culture model for translocation studies across the placental barrier. Scientific Reports, 2018, 8, 5388.	1.6	68
16	Recent insights on indirect mechanisms in developmental toxicity of nanomaterials. Particle and Fibre Toxicology, 2020, 17, 31.	2.8	61
17	A 3D co-culture microtissue model of the human placenta for nanotoxicity assessment. Nanoscale, 2016, 8, 17322-17332.	2.8	58
18	Profilin 1 is required for peripheral nervous system myelination. Development (Cambridge), 2014, 141, 1553-1561.	1.2	51

#	Article	IF	Citations
19	Translocation of silver nanoparticles in the<i>ex vivo</i>human placenta perfusion model characterized by single particle ICP-MS. Nanoscale, 2018, 10, 11980-11991.	2.8	49
20	Gold nanoparticle distribution in advanced in vitro and ex vivo human placental barrier models. Journal of Nanobiotechnology, 2018, 16, 79.	4.2	48
21	Transfer and Metabolism of the Xenoestrogen Zearalenone in Human Perfused Placenta. Environmental Health Perspectives, 2019, 127, 107004.	2.8	47
22	Knocking at the door of the unborn child: engineered nanoparticles at the human placental barrier. Swiss Medical Weekly, 2012, 142, w13559.	0.8	45
23	Comparison of the suitability of alkaline or enzymatic sample pre-treatment for characterization of silver nanoparticles in human tissue by single particle ICP-MS. Journal of Analytical Atomic Spectrometry, 2018, 33, 752-761.	1.6	41
24	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
25	Carbon Nanotubes â€" Curse or Blessing. Current Medicinal Chemistry, 2011, 18, 2115-2128.	1.2	39
26	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
27	Transfer studies of polystyrene nanoparticles in the<i>ex vivo</i>human placenta perfusion model: key sources of artifacts. Science and Technology of Advanced Materials, 2015, 16, 044602.	2.8	36
28	Impact of particle size and surface modification on gold nanoparticle penetration into human placental microtissues. Nanomedicine, 2017, 12, 1119-1133.	1.7	34
29	Influence of single walled carbon nanotubes at subtoxical concentrations on cell adhesion and other cell parameters of human epithelial cells. Journal of King Saud University - Science, 2013, 25, 15-27.	1.6	33
30	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
31	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
32	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
33	Research on nanoparticles in human perfused placenta: State of the art and perspectives. Placenta, 2021, 104, 199-207.	0.7	25
34	Release of graphene-related materials from epoxy-based composites: characterization, quantification and hazard assessment <i>in vitro</i>. Nanoscale, 2020, 12, 10703-10722.	2.8	22
35	Developmental Toxicity of Nanomaterials: Need for a Better Understanding of Indirect Effects. Chemical Research in Toxicology, 2018, 31, 641-642.	1.7	20
36	Nanostructure generation during milk digestion in presence of a cell culture model simulating the small intestine. Journal of Colloid and Interface Science, 2020, 574, 430-440.	5.0	19

#	Article	IF	Citations
37	Fetal exposure to environmental chemicals; insights from placental perfusion studies. Placenta, 2021, 106, 58-66.	0.7	19
38	Microfluidic Coâ€Culture Platform to Recapitulate the Maternalâ€"Placentalâ€"Embryonic Axis. Advanced Biology, 2021, 5, e2100609.	1.4	19
39	Hazard assessment of abraded thermoplastic composites reinforced with reduced graphene oxide. Journal of Hazardous Materials, 2022, 435, 129053.	6.5	16
40	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
41	Label-free detection of uptake, accumulation, and translocation of diesel exhaust particles in ex vivo perfused human placenta. Journal of Nanobiotechnology, 2021, 19, 144.	4.2	13
42	Impact of graphene oxide on human placental trophoblast viability, functionality and barrier integrity. 2D Materials, 2018, 5, 035014.	2.0	12
43	Tributyltin and triphenyltin induce 11Î²-hydroxysteroid dehydrogenase 2 expression and activity through activation of retinoid X receptor Î±. Toxicology Letters, 2020, 322, 39-49.	0.4	9
44	Addressing microchimerism in pregnancy by ex vivo human placenta perfusion. Placenta, 2022, 117, 78-86.	0.7	9
45	Nano-analytical characterization of endogenous minerals in healthy placental tissue: mineral distribution, composition and ultrastructure. Analyst, The, 2019, 144, 6850-6857.	1.7	8
46	Differences and Interactions in Placental Manganese and Iron Transfer across an In Vitro Model of Human Villous Trophoblasts. International Journal of Molecular Sciences, 2022, 23, 3296.	1.8	8
47	ExÂvivo dual perfusion of an isolated human placenta cotyledon: Towards protocol standardization and improved inter-centre comparability. Placenta, 2022, 126, 83-89.	0.7	7
48	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
49	Catching Them Early: Framework Parameters and Progress for Prenatal and Childhood Application of Advanced Therapies. Pharmaceutics, 2022, 14, 793.	2.0	4
50	A micropatterning approach to study the influence of actin cytoskeletal organization on polystyrene nanoparticle uptake by BeWo cells. RSC Advances, 2016, 6, 72827-72835.	1.7	3
51	A novel inactivated virus system (InViS) for a fast and inexpensive assessment of viral disintegration. Scientific Reports, 2022, 12, .	1.6	2