

Gretchen J Mahler

List of Publications by Year in descending order

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36
papers

2,236
citations

331642

21
h-index

361001

35
g-index

38
all docs

38
docs citations

38
times ranked

3389
citing authors

#	ARTICLE	IF	CITATIONS
1	Oral exposure to polystyrene nanoparticles affects iron absorption. <i>Nature Nanotechnology</i> , 2012, 7, 264-271.	31.5	293
2	Characterization of Caco-2 and HT29-MTX cocultures in an in vitro digestion/cell culture model used to predict iron bioavailability. <i>Journal of Nutritional Biochemistry</i> , 2009, 20, 494-502.	4.2	246
3	Body-on-a-chip simulation with gastrointestinal tract and liver tissues suggests that ingested nanoparticles have the potential to cause liver injury. <i>Lab on A Chip</i> , 2014, 14, 3081-3092.	6.0	225
4	Characterization of a gastrointestinal tract microscale cell culture analog used to predict drug toxicity. <i>Biotechnology and Bioengineering</i> , 2009, 104, 193-205.	3.3	199
5	Inflammatory Cytokines Promote Mesenchymal Transformation in Embryonic and Adult Valve Endothelial Cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013, 33, 121-130.	2.4	176
6	Aortic valve disease and treatment: The need for naturally engineered solutions. <i>Advanced Drug Delivery Reviews</i> , 2011, 63, 242-268.	13.7	168
7	Titanium dioxide nanoparticle ingestion alters nutrient absorption in an in vitro model of the small intestine. <i>NanoImpact</i> , 2017, 5, 70-82.	4.5	136
8	Effects of shear stress pattern and magnitude on mesenchymal transformation and invasion of aortic valve endothelial cells. <i>Biotechnology and Bioengineering</i> , 2014, 111, 2326-2337.	3.3	110
9	Modeling Barrier Tissues In Vitro: Methods, Achievements, and Challenges. <i>EBioMedicine</i> , 2016, 5, 30-39.	6.1	94
10	Silicon dioxide nanoparticle exposure affects small intestine function in an in vitro model. <i>Nanotoxicology</i> , 2018, 12, 485-508.	3.0	63
11	Titanium dioxide nanoparticle exposure alters metabolic homeostasis in a cell culture model of the intestinal epithelium and <i>Drosophila melanogaster</i> . <i>Nanotoxicology</i> , 2018, 12, 390-406.	3.0	46
12	Inflammatory Regulation of Valvular Remodeling: The Good(?), the Bad, and the Ugly. <i>International Journal of Inflammation</i> , 2011, 2011, 1-13.	1.5	41
13	Endothelial to mesenchymal transformation is induced by altered extracellular matrix in aortic valve endothelial cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 2729-2741.	4.0	40
14	A human proximal tubule-on-a-chip to study renal disease and toxicity. <i>Biomicrofluidics</i> , 2019, 13, 014107.	2.4	39
15	The role of shear stress and altered tissue properties on endothelial to mesenchymal transformation and tumor-endothelial cell interaction. <i>Biomicrofluidics</i> , 2017, 11, 044104.	2.4	34
16	Effect of dietary additives on intestinal permeability in both <i>Drosophila</i> and a human cell co-culture. <i>DMM Disease Models and Mechanisms</i> , 2018, 11, .	2.4	34
17	A novel microfluidic device to model the human proximal tubule and glomerulus. <i>RSC Advances</i> , 2017, 7, 4216-4225.	3.6	31
18	TiO ₂ Nanoparticles and Commensal Bacteria Alter Mucus Layer Thickness and Composition in a Gastrointestinal Tract Model. <i>Small</i> , 2020, 16, e2000601.	10.0	29

#	ARTICLE	IF	CITATIONS
19	Nanoparticle size-specific actin rearrangement and barrier dysfunction of endothelial cells. <i>Nanotoxicology</i> , 2017, 11, 846-856.	3.0	27
20	ZnO nanoparticles affect nutrient transport in an in vitro model of the small intestine. <i>Food and Chemical Toxicology</i> , 2019, 124, 112-127.	3.6	26
21	Endothelial barrier dysfunction induced by nanoparticle exposure through actin remodeling via caveolae/raft-regulated calcium signalling. <i>NanoImpact</i> , 2018, 11, 82-91.	4.5	22
22	Cardiac developmental toxicity. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , 2011, 93, 291-297.	3.6	18
23	Detection of outer membrane vesicles in <i>Synechocystis</i> PCC 6803. <i>FEMS Microbiology Letters</i> , 2015, 362, fmv163.	1.8	18
24	Critical Considerations for the Design of Multi-Organ Microphysiological Systems (MPS). <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 721338.	3.7	17
25	Intra-amniotic administration (Gallus gallus) of TiO ₂ , SiO ₂ , and ZnO nanoparticles affect brush border membrane functionality and alters gut microflora populations. <i>Food and Chemical Toxicology</i> , 2020, 135, 110896.	3.6	16
26	Shear stress magnitude and transforming growth factor- β 1 regulate endothelial to mesenchymal transformation in a three-dimensional culture microfluidic device. <i>RSC Advances</i> , 2016, 6, 85457-85467.	3.6	14
27	Electronic μ ECM: A Permeable Microporous Elastomer for an Advanced Bio μ Integrated Continuous Sensing Platform. <i>Advanced Materials Technologies</i> , 2020, 5, 2000242.	5.8	14
28	Body-on-a-Chip Systems for Animal-free Toxicity Testing. <i>ATLA Alternatives To Laboratory Animals</i> , 2016, 44, 469-478.	1.0	12
29	The role of metal oxide nanoparticles, Escherichia coli, and Lactobacillus rhamnosus on small intestinal enzyme activity. <i>Environmental Science: Nano</i> , 2020, 7, 3940-3964.	4.3	11
30	Bacteria Remediate the Effects of Food Additives on Intestinal Function in an in vitro Model of the Gastrointestinal Tract. <i>Frontiers in Nutrition</i> , 2020, 7, 131.	3.7	10
31	Modelling Renal Filtration and Reabsorption Processes in a Human Glomerulus and Proximal Tubule Microphysiological System. <i>Micromachines</i> , 2021, 12, 983.	2.9	8
32	Shear and endothelial induced late-stage calcific aortic valve disease-on-a-chip develops calcium phosphate mineralizations. <i>Lab on A Chip</i> , 2022, 22, 1374-1385.	6.0	6
33	Chondroitin Sulfate Promotes Interstitial Cell Activation and Calcification in an In Vitro Model of the Aortic Valve. <i>Cardiovascular Engineering and Technology</i> , 2021, , 1.	1.6	4
34	Biofluid μ Permeable Electronics: Electronic μ ECM: A Permeable Microporous Elastomer for an Advanced Bio μ Integrated Continuous Sensing Platform (Adv. Mater. Technol. 7/2020). <i>Advanced Materials Technologies</i> , 2020, 5, 2070043.	5.8	1
35	Microfluidic modeling of the glomerulus and tubular apparatus. , 2022, , 353-366.		0
36	Paracellular Transport of Soybean β -Conglycinin using a Caco μ 2/HT29 μ MTX Co μ Culture. <i>FASEB Journal</i> , 2013, 27, 794.10.	0.5	0