

Mandy Brigitte Esch

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.

30
papers

2,229
citations

19
h-index

31
g-index

31
ext. papers

2,476
ext. citations

7.5
avg, IF

4.84
L-index

#	Paper	IF	Citations
30	Multi-Organ toxicity demonstration in a functional human in vitro system composed of four organs. <i>Scientific Reports</i> , 2016 , 6, 20030	4.9	269
29	Oral exposure to polystyrene nanoparticles affects iron absorption. <i>Nature Nanotechnology</i> , 2012 , 7, 264-71	28.7	237
28	Microfabricated mammalian organ systems and their integration into models of whole animals and humans. <i>Lab on A Chip</i> , 2013 , 13, 1201-12	7.2	184
27	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, 3081-92	7.2	183
26	Characterization of a gastrointestinal tract microscale cell culture analog used to predict drug toxicity. <i>Biotechnology and Bioengineering</i> , 2009 , 104, 193-205	4.9	173
25	On chip porous polymer membranes for integration of gastrointestinal tract epithelium with microfluidic body-on-a-chip devices. <i>Biomedical Microdevices</i> , 2012 , 14, 895-906	3.7	137
24	Modular, pumpless body-on-a-chip platform for the co-culture of GI tract epithelium and 3D primary liver tissue. <i>Lab on A Chip</i> , 2016 , 16, 2719-29	7.2	136
23	How multi-organ microdevices can help foster drug development. <i>Advanced Drug Delivery Reviews</i> , 2014 , 69-70, 158-69	18.5	125
22	Multi-cellular 3D human primary liver cell culture elevates metabolic activity under fluidic flow. <i>Lab on A Chip</i> , 2015 , 15, 2269-77	7.2	121
21	Using physiologically-based pharmacokinetic-guided "body-on-a-chip" systems to predict mammalian response to drug and chemical exposure. <i>Experimental Biology and Medicine</i> , 2014 , 239, 1225-39	3.7	103
20	Modeling Barrier Tissues In Vitro: Methods, Achievements, and Challenges. <i>EBioMedicine</i> , 2016 , 5, 30-9	8.8	75
19	Detection of viable <i>Cryptosporidium parvum</i> using DNA-modified liposomes in a microfluidic chip. <i>Analytical Chemistry</i> , 2001 , 73, 2952-8	7.8	71
18	Influence of master fabrication techniques on the characteristics of embossed microfluidic channels. <i>Lab on A Chip</i> , 2003 , 3, 121-7	7.2	68
17	Detection of <i>Cryptosporidium parvum</i> using oligonucleotide-tagged liposomes in a competitive assay format. <i>Analytical Chemistry</i> , 2001 , 73, 3162-7	7.8	55
16	Integration of in silico and in vitro platforms for pharmacokinetic-pharmacodynamic modeling. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2010 , 6, 1063-81	5.5	48
15	Characterization of in vitro endothelial linings grown within microfluidic channels. <i>Tissue Engineering - Part A</i> , 2011 , 17, 2965-71	3.9	45
14	Self-contained, low-cost Body-on-a-Chip systems for drug development. <i>Experimental Biology and Medicine</i> , 2017 , 242, 1701-1713	3.7	43

13	Biodegradable Biliverdin Nanoparticles for Efficient Photoacoustic Imaging. <i>ACS Nano</i> , 2019 , 13, 7690-7704	10.7	35
12	Promises, challenges and future directions of microCCAs. <i>Journal of Biotechnology</i> , 2010 , 148, 64-9	3.7	23
11	Body-on-a chip: Using microfluidic systems to predict human responses to drugs. <i>Pure and Applied Chemistry</i> , 2010 , 82, 1635-1645	2.1	19
10	Endothelial retention and phenotype on carbonized cardiovascular implant surfaces. <i>Biomaterials</i> , 2014 , 35, 7714-23	15.6	17
9	Body-on-a-chip systems for animal-free toxicity testing. <i>ATLA Alternatives To Laboratory Animals</i> , 2016 , 44, 469-478	2.1	11
8	Bulk-state and single-particle imaging are central to understanding carbon dot photo-physics and elucidating the effects of precursor composition and reaction temperature. <i>Carbon</i> , 2019 , 145, 572-572	10.4	11
7	Pumpless microfluidic devices for generating healthy and diseased endothelia. <i>Lab on A Chip</i> , 2019 , 19, 3212-3219	7.2	10
6	Lymphatic Vessel on a Chip with Capability for Exposure to Cyclic Fluidic Flow.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 6697-6707	4.1	10
5	Electron and X-ray Focused Beam-Induced Cross-Linking in Liquids: Toward Rapid Continuous 3D Nanoprinting and Interfacing using Soft Materials. <i>ACS Nano</i> , 2020 , 14, 12982-12992	16.7	9
4	Body-in-a-Cube: a microphysiological system for multi-tissue co-culture with near-physiological amounts of blood surrogate. <i>Microphysiological Systems</i> , 2020 , 4,	1.3	5
3	Near-infrared emitting dual-stimuli-responsive carbon dots from endogenous bile pigments. <i>Nanoscale</i> , 2021 , 13, 13487-13496	7.7	3
2	Critical Considerations for the Design of Multi-Organ Microphysiological Systems (MPS). <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 721338	5.7	2
1	Fabrication and Use of a Pumpless Microfluidic Lymphatic Vessel Chip. <i>Methods in Molecular Biology</i> , 2022 , 2373, 177-199	1.4	1