Mandy Brigitte Esch

List of Publications by Year in Descending Order

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	Fabrication and Use of a Pumpless Microfluidic Lymphatic Vessel Chip. *Methods in Molecular Biology* , **2022**, 2373, 177-199	1.4	1
29	Critical Considerations for the Design of Multi-Organ Microphysiological Systems (MPS). *Frontiers in Cell and Developmental Biology*, **2021**, 9, 721338	5.7	2
28	Near-infrared emitting dual-stimuli-responsive carbon dots from endogenous bile pigments. *Nanoscale*, **2021**, 13, 13487-13496	7.7	3
27	Body-in-a-Cube: a microphysiological system for multi-tissue co-culture with near-physiological amounts of blood surrogate. *Microphysiological Systems*, **2020**, 4,	1.3	5
26	Electron and X-ray Focused Beam-Induced Cross-Linking in Liquids: Toward Rapid Continuous 3D Nanoprinting and Interfacing using Soft Materials. *ACS Nano*, **2020**, 14, 12982-12992	16.7	9
25	Lymphatic Vessel on a Chip with Capability for Exposure to Cyclic Fluidic Flow.. *ACS Applied Bio Materials*, **2020**, 3, 6697-6707	4.1	10
24	Pumpless microfluidic devices for generating healthy and diseased endothelia. *Lab on A Chip*, **2019**, 19, 3212-3219	7.2	10
23	Biodegradable Biliverdin Nanoparticles for Efficient Photoacoustic Imaging. *ACS Nano*, **2019**, 13, 7690-7704	16.7	35
22	Bulk-state and single-particle imaging are central to understanding carbon dot photo-physics and elucidating the effects of precursor composition and reaction temperature. *Carbon*, **2019**, 145, 572-572	10.4	11
21	Self-contained, low-cost Body-on-a-Chip systems for drug development. *Experimental Biology and Medicine*, **2017**, 242, 1701-1713	3.7	43
20	Modular, pumpless body-on-a-chip platform for the co-culture of GI tract epithelium and 3D primary liver tissue. *Lab on A Chip*, **2016**, 16, 2719-29	7.2	136
19	Body-on-a-chip systems for animal-free toxicity testing. *ATLA Alternatives To Laboratory Animals*, **2016**, 44, 469-478	2.1	11
18	Multi-Organ toxicity demonstration in a functional human in vitro system composed of four organs. *Scientific Reports*, **2016**, 6, 20030	4.9	269
17	Modeling Barrier Tissues In Vitro: Methods, Achievements, and Challenges. *EBioMedicine*, **2016**, 5, 30-9	8.8	75
16	Multi-cellular 3D human primary liver cell culture elevates metabolic activity under fluidic flow. *Lab on A Chip*, **2015**, 15, 2269-77	7.2	121
15	Body-on-a-chip simulation with gastrointestinal tract and liver tissues suggests that ingested nanoparticles have the potential to cause liver injury. *Lab on A Chip*, **2014**, 14, 3081-92	7.2	183
14	Using physiologically-based pharmacokinetic-guided "body-on-a-chip" systems to predict mammalian response to drug and chemical exposure. *Experimental Biology and Medicine*, **2014**, 239, 1225-39	3.7	103

13	How multi-organ microdevices can help foster drug development. *Advanced Drug Delivery Reviews*, **2014**, 69-70, 158-69	18.5	125
12	Endothelial retention and phenotype on carbonized cardiovascular implant surfaces. *Biomaterials*, **2014**, 35, 7714-23	15.6	17
11	Microfabricated mammalian organ systems and their integration into models of whole animals and humans. *Lab on A Chip*, **2013**, 13, 1201-12	7.2	184
10	Oral exposure to polystyrene nanoparticles affects iron absorption. *Nature Nanotechnology*, **2012**, 7, 264-71	28.7	237
9	On chip porous polymer membranes for integration of gastrointestinal tract epithelium with microfluidic Xbody-on-a-chipXdevices. *Biomedical Microdevices*, **2012**, 14, 895-906	3.7	137
8	Characterization of in vitro endothelial linings grown within microfluidic channels. *Tissue Engineering - Part A*, **2011**, 17, 2965-71	3.9	45
7	Body-on-a chip: Using microfluidic systems to predict human responses to drugs. *Pure and Applied Chemistry*, **2010**, 82, 1635-1645	2.1	19
6	Integration of in silico and in vitro platforms for pharmacokinetic-pharmacodynamic modeling. *Expert Opinion on Drug Metabolism and Toxicology*, **2010**, 6, 1063-81	5.5	48
5	Promises, challenges and future directions of microCCAs. *Journal of Biotechnology*, **2010**, 148, 64-9	3.7	23
4	Characterization of a gastrointestinal tract microscale cell culture analog used to predict drug toxicity. *Biotechnology and Bioengineering*, **2009**, 104, 193-205	4.9	173
3	Influence of master fabrication techniques on the characteristics of embossed microfluidic channels. *Lab on A Chip*, **2003**, 3, 121-7	7.2	68
2	Detection of viable Cryptosporidium parvum using DNA-modified liposomes in a microfluidic chip. *Analytical Chemistry*, **2001**, 73, 2952-8	7.8	71
1	Detection of Cryptosporidium parvum using oligonucleotide-tagged liposomes in a competitive assay format. *Analytical Chemistry*, **2001**, 73, 3162-7	7.8	55