

O Berk Usta

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

1,959
citations

257450

24
h-index

315739

38
g-index

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all docs

39
docs citations

39
times ranked

2787
citing authors

#	ARTICLE	IF	CITATIONS
1	CYP450 drug inducibility in NAFLD via an in vitro hepatic model: Understanding drug-drug interactions in the fatty liver. <i>Biomedicine and Pharmacotherapy</i> , 2022, 146, 112377.	5.6	11
2	Î ² -Dispersion of blood during sedimentation. <i>Scientific Reports</i> , 2021, 11, 2642.	3.3	7
3	Progressive hypoxia on a chip: An in vitro oxygen gradient model for capturing the effects of hypoxia on primary hepatocytes in health and disease. <i>Biotechnology and Bioengineering</i> , 2020, 117, 763-775.	3.3	36
4	Deep-supercooling for extended preservation of adipose-derived stem cells. <i>Cryobiology</i> , 2020, 92, 67-75.	0.7	17
5	A comparison of hepato-cellular in vitro platforms to study CYP3A4 induction. <i>PLoS ONE</i> , 2020, 15, e0229106.	2.5	14
6	A microfluidic patterned model of non-alcoholic fatty liver disease: applications to disease progression and zonation. <i>Lab on A Chip</i> , 2019, 19, 3022-3031.	6.0	35
7	Rapid maturation of the hepatic cell line Huh7 via CDK inhibition for PXR dependent CYP450 metabolism and induction. <i>Scientific Reports</i> , 2019, 9, 15848.	3.3	7
8	Simple Surface Modification of Poly(dimethylsiloxane) via Surface Segregating Smart Polymers for Biomicrofluidics. <i>Scientific Reports</i> , 2019, 9, 7377.	3.3	144
9	Selective Inactivation of <i>Pseudomonas aeruginosa</i> and <i>Staphylococcus epidermidis</i> with Pulsed Electric Fields and Antibiotics. <i>Advances in Wound Care</i> , 2019, 8, 136-148.	5.1	8
10	Dose-, treatment- and time-dependent toxicity of superparamagnetic iron oxide nanoparticles on primary rat hepatocytes. <i>Nanomedicine</i> , 2018, 13, 1267-1284.	3.3	29
11	Long-term deep-supercooling of large-volume water and red cell suspensions via surface sealing with immiscible liquids. <i>Nature Communications</i> , 2018, 9, 3201.	12.8	64
12	Metabolic Patterning on a Chip: Towards in vitro Liver Zonation of Primary Rat and Human Hepatocytes. <i>Scientific Reports</i> , 2018, 8, 8951.	3.3	90
13	Recent advances in nonbiofouling PDMS surface modification strategies applicable to microfluidic technology. <i>Technology</i> , 2017, 05, 1-12.	1.4	120
14	Generation and manipulation of hydrogel microcapsules by droplet-based microfluidics for mammalian cell culture. <i>Lab on A Chip</i> , 2017, 17, 1913-1932.	6.0	110
15	A Microfabricated Platform for Generating Physiologically-Relevant Hepatocyte Zonation. <i>Scientific Reports</i> , 2016, 6, 26868.	3.3	53
16	New technologies in drug metabolism and toxicity screening: organ-to-organ interaction. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2016, 12, 475-477.	3.3	18
17	Long-term maintenance of a microfluidic 3D human liver sinusoid. <i>Biotechnology and Bioengineering</i> , 2016, 113, 241-246.	3.3	164
18	Layer-by-layer Collagen Deposition in Microfluidic Devices for Microtissue Stabilization. <i>Journal of Visualized Experiments</i> , 2015, , .	0.3	4

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19	Polyethylene glycol protects primary hepatocytes during supercooling preservation. <i>Cryobiology</i> , 2015, 71, 125-129.	0.7	33
20	A novel ultrathin collagen nanolayer assembly for 3-D microtissue engineering: Layer-by-layer collagen deposition for long-term stable microfluidic hepatocyte culture. <i>Technology</i> , 2014, 02, 67-74.	1.4	22
21	Dynamic interplay of flow and collagen stabilizes primary hepatocytes culture in a microfluidic platform. <i>Lab on A Chip</i> , 2014, 14, 2033-2039.	6.0	88
22	<i>In Vitro</i> platforms for evaluating liver toxicity. <i>Experimental Biology and Medicine</i> , 2014, 239, 1180-1191.	2.4	145
23	Supercooling enables long-term transplantation survival following 4 days of liver preservation. <i>Nature Medicine</i> , 2014, 20, 790-793.	30.7	153
24	Towards a three-dimensional microfluidic liver platform for predicting drug efficacy and toxicity in humans. <i>Stem Cell Research and Therapy</i> , 2013, 4, S16.	5.5	54
25	Supercooling as a Viable Non-Freezing Cell Preservation Method of Rat Hepatocytes. <i>PLoS ONE</i> , 2013, 8, e69334.	2.5	32
26	Propulsion and Trapping of Microparticles by Active Cilia Arrays. <i>Langmuir</i> , 2012, 28, 3217-3226.	3.5	35
27	Designing Oscillating Cilia That Capture or Release Microscopic Particles. <i>Langmuir</i> , 2010, 26, 2963-2968.	3.5	50
28	Using Actuated Cilia to Regulate Motion of Microscopic Particles. , 2010, , .		1
29	Self-Sustained Motion of a Train of Haptotactic Microcapsules. <i>Langmuir</i> , 2009, 25, 9644-9647.	3.5	10
30	Effect of encapsulated polymers and nanoparticles on shear deformation of droplets. <i>Soft Matter</i> , 2009, 5, 850.	2.7	2
31	Shear and extensional deformation of droplets containing polymers and nanoparticles. <i>Journal of Chemical Physics</i> , 2009, 130, 234905.	3.0	14
32	Flow injection of polymers into nanopores. <i>Soft Matter</i> , 2009, 5, 4575.	2.7	42
33	Modeling Microcapsules That Communicate through Nanoparticles To Undergo Self-Propelled Motion. <i>ACS Nano</i> , 2008, 2, 471-476.	14.6	35
34	Designing patterned substrates to regulate the movement of capsules in microchannels. <i>Journal of Chemical Physics</i> , 2008, 128, 235102.	3.0	7
35	Kinetic theory of a confined polymer driven by an external force and pressure-driven flow. <i>Physics of Fluids</i> , 2007, 19, .	4.0	36
36	Transverse Migration of a Confined Polymer Driven by an External Force. <i>Physical Review Letters</i> , 2007, 98, 098301.	7.8	57

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37	Fork in the Road: Patterned Surfaces Direct Microcapsules to Make a Decision. <i>Langmuir</i> , 2007, 23, 10887-10890.	3.5	24
38	Flow-induced migration of polymers in dilute solution. <i>Physics of Fluids</i> , 2006, 18, 031703.	4.0	85
39	Lattice-Boltzmann simulations of the dynamics of polymer solutions in periodic and confined geometries. <i>Journal of Chemical Physics</i> , 2005, 122, 094902.	3.0	103