

Alexander S Mosig

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

1,918
citations

257450

24
h-index

276875

41
g-index

65
all docs

65
docs citations

65
times ranked

3280
citing authors

#	ARTICLE	IF	CITATIONS
1	A microfluidically perfused three dimensional human liver model. <i>Biomaterials</i> , 2015, 71, 119-131.	11.4	192
2	A three-dimensional immunocompetent intestine-on-chip model as in vitro platform for functional and microbial interaction studies. <i>Biomaterials</i> , 2019, 220, 119396.	11.4	107
3	Exercise affects the gene expression profiles of human white blood cells. <i>Journal of Applied Physiology</i> , 2007, 102, 26-36.	2.5	103
4	Endogenous metabolites of vitamin E limit inflammation by targeting 5-lipoxygenase. <i>Nature Communications</i> , 2018, 9, 3834.	12.8	101
5	Different functions of monocyte subsets in familial hypercholesterolemia: potential function of CD14 ⁺ CD16 ⁺ monocytes in detoxification of oxidized LDL. <i>FASEB Journal</i> , 2009, 23, 866-874.	0.5	98
6	A versatile and customizable low-cost 3D-printed open standard for microscopic imaging. <i>Nature Communications</i> , 2020, 11, 5979.	12.8	90
7	GIP increases adipose tissue expression and blood levels of MCP-1 in humans and links high energy diets to inflammation: a randomised trial. <i>Diabetologia</i> , 2015, 58, 1759-1768.	6.3	73
8	SARS-CoV-2 Causes Severe Epithelial Inflammation and Barrier Dysfunction. <i>Journal of Virology</i> , 2021, 95, .	3.4	70
9	Co-infection with <i>Staphylococcus aureus</i> after primary influenza virus infection leads to damage of the endothelium in a human alveolus-on-a-chip model. <i>Biofabrication</i> , 2020, 12, 025012.	7.1	60
10	Cell type-specific delivery of short interfering RNAs by dye-functionalised theranostic nanoparticles. <i>Nature Communications</i> , 2014, 5, 5565.	12.8	58
11	Microfluidically supported biochip design for culture of endothelial cell layers with improved perfusion conditions. <i>Biofabrication</i> , 2015, 7, 015013.	7.1	56
12	Long-chain metabolites of Î±-tocopherol occur in human serum and inhibit macrophage foam cell formation in vitro. <i>Free Radical Biology and Medicine</i> , 2014, 68, 43-51.	2.9	54
13	Monocytes of patients with familial hypercholesterolemia show alterations in cholesterol metabolism. <i>BMC Medical Genomics</i> , 2008, 1, 60.	1.5	52
14	Crossing the blood-brain barrier: Glutathione-conjugated poly(ethylene imine) for gene delivery. <i>Journal of Controlled Release</i> , 2016, 241, 1-14.	9.9	51
15	Keeping <i>Candida</i> commensal – How lactobacilli antagonize pathogenicity of <i>Candida albicans</i> in an <i>in vitro</i> gut model. <i>DMM Disease Models and Mechanisms</i> , 2019, 12, .	2.4	51
16	High Saturated Fat Diet Increases Circulating Angiotensin-Converting Enzyme, Which Is Enhanced by the rs4343 Polymorphism Defining Persons at Risk of Nutrient-Dependent Increases of Blood Pressure. <i>Journal of the American Heart Association</i> , 2017, 6, .	3.7	47
17	Monocyte-induced recovery of inflammation-associated hepatocellular dysfunction in a biochip-based human liver model. <i>Scientific Reports</i> , 2016, 6, 21868.	3.3	41
18	<i>Candida albicans</i> Î²-Glucan Differentiates Human Monocytes Into a Specific Subset of Macrophages. <i>Frontiers in Immunology</i> , 2018, 9, 2818.	4.8	38

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19	Comparison of the uptake of methacrylate-based nanoparticles in static and dynamic in vitro systems as well as in vivo. <i>Journal of Controlled Release</i> , 2015, 216, 158-168.	9.9	35
20	Selective upregulation of TNF α expression in classically-activated human monocyte-derived macrophages (M1) through pharmacological interference with V-ATPase. <i>Biochemical Pharmacology</i> , 2017, 130, 71-82.	4.4	34
21	Organ-on-chip models: new opportunities for biomedical research. <i>Future Science OA</i> , 2017, 3, FSO130.	1.9	32
22	Tribbles 2 mediates cisplatin sensitivity and DNA damage response in epithelial ovarian cancer. <i>International Journal of Cancer</i> , 2017, 141, 1600-1614.	5.1	31
23	VEGF Triggers Transient Induction of Autophagy in Endothelial Cells via AMPK α 1. <i>Cells</i> , 2020, 9, 687.	4.1	28
24	Gene expression in the detection of autologous blood transfusion in sports – a pilot study. <i>Vox Sanguinis</i> , 2009, 96, 333-336.	1.5	26
25	Gene expression profiles of T lymphocytes are sensitive to the influence of heavy smoking: a pilot study. <i>Immunogenetics</i> , 2006, 59, 37-43.	2.4	25
26	Preservation of Cell Structure, Metabolism, and Biotransformation Activity of Liver-on-a-Chip Organ Models by Hypothermic Storage. <i>Advanced Healthcare Materials</i> , 2018, 7, 1700616.	7.6	24
27	Microphysiological systems meet hiPSC technology – New tools for disease modeling of liver infections in basic research and drug development. <i>Advanced Drug Delivery Reviews</i> , 2019, 140, 51-67.	13.7	23
28	An integrative microfluidically supported in vitro model of an endothelial barrier combined with cortical spheroids simulates effects of neuroinflammation in neocortex development. <i>Biomicrofluidics</i> , 2016, 10, 044102.	2.4	22
29	Modulation of actin dynamics as potential macrophage subtype-targeting anti-tumour strategy. <i>Scientific Reports</i> , 2017, 7, 41434.	3.3	19
30	The Peroxisome Proliferator-Activated Receptor (PPAR) γ Antagonist 2-Chloro-5-Nitro-N-Phenylbenzamide (GW9662) Triggers Perilipin 2 Expression via PPAR γ and Induces Lipogenesis and Triglyceride Accumulation in Human THP-1 Macrophages. <i>Molecular Pharmacology</i> , 2020, 97, 212-225.	2.3	19
31	<i>Staphylococcus aureus</i> Lung Infection Results in Down-Regulation of Surfactant Protein-A Mainly Caused by Pro-Inflammatory Macrophages. <i>Microorganisms</i> , 2020, 8, 577.	3.6	18
32	Intestinal Stem Cell-on-Chip to Study Human Host-Microbiota Interaction. <i>Frontiers in Immunology</i> , 2021, 12, 798552.	4.8	17
33	<i>In vitro</i> infection models to study fungal-host interactions. <i>FEMS Microbiology Reviews</i> , 2021, 45, .	8.6	16
34	SORBS2 and TLR3 induce premature senescence in primary human fibroblasts and keratinocytes. <i>BMC Cancer</i> , 2013, 13, 507.	2.6	13
35	CAAP48, a New Sepsis Biomarker, Induces Hepatic Dysfunction in an in vitro Liver-on-Chip Model. <i>Frontiers in Immunology</i> , 2019, 10, 273.	4.8	13
36	Human macrophage polarization determines bacterial persistence of <i>Staphylococcus aureus</i> in a liver-on-chip-based infection model. <i>Biomaterials</i> , 2022, 287, 121632.	11.4	13

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37	Emulating the gut-liver axis: Dissecting the microbiome's effect on drug metabolism using multiorgan-on-chip models. <i>Current Opinion in Endocrine and Metabolic Research</i> , 2021, 18, 94-101.	1.4	12
38	Studying metabolism with multi-organ chips: new tools for disease modelling, pharmacokinetics and pharmacodynamics. <i>Open Biology</i> , 2022, 12, 210333.	3.6	12
39	A human macrophage-hepatocyte co-culture model for comparative studies of infection and replication of <i>Francisella tularensis</i> LVS strain and subspecies <i>holarctica</i> and <i>mediasiatica</i> . <i>BMC Microbiology</i> , 2016, 16, 2.	3.3	10
40	Thermo-responsive cell culture carrier: Effects on macrophage functionality and detachment efficiency. <i>Journal of Tissue Engineering</i> , 2017, 8, 204173141772642.	5.5	10
41	Short-term treatment with taurolidine is associated with liver injury. <i>BMC Pharmacology & Toxicology</i> , 2017, 18, 61.	2.4	10
42	Invasive aspergillosis-on-chip: A quantitative treatment study of human <i>Aspergillus fumigatus</i> infection. <i>Biomaterials</i> , 2022, 283, 121420.	11.4	10
43	Recruitment of CD16+ monocytes to endothelial cells in response to LPS-treatment and concomitant TNF release is regulated by CX3CR1 and interfered by soluble fractalkine. <i>Cytokine</i> , 2016, 83, 41-52.	3.2	8
44	Functional Analyses of RUNX3 and CaMKIIN β in Ovarian Cancer Cell Lines Reveal Tumor-Suppressive Functions for CaMKIIN β and Dichotomous Roles for RUNX3 Transcript Variants. <i>International Journal of Molecular Sciences</i> , 2018, 19, 253.	4.1	8
45	UC2 - A 3D-printed General-Purpose Optical Toolbox for Microscopic Imaging. , 2019, , .		8
46	The natural compound atraric acid suppresses androgen-regulated neo-angiogenesis of castration-resistant prostate cancer through angiotensin 2. <i>Oncogene</i> , 2022, 41, 3263-3277.	5.9	8
47	Optimization of the transfection of human THP-1 macrophages by application of Nunc UpCell technology. <i>Analytical Biochemistry</i> , 2015, 479, 40-42.	2.4	7
48	Exploration of Long-Chain Vitamin E Metabolites for the Discovery of a Highly Potent, Orally Effective, and Metabolically Stable 5-LOX Inhibitor that Limits Inflammation. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 11496-11526.	6.4	7
49	Identification of gene-networks associated with specific lipid metabolites by Weighted Gene Co-Expression Network Analysis (WGCNA). <i>Experimental and Clinical Endocrinology and Diabetes</i> , 2014, 122, .	1.2	7
50	A new fluorescent dye for cell tracing and mitochondrial imaging <i>in vitro</i> and <i>in vivo</i> . <i>Journal of Biophotonics</i> , 2016, 9, 888-900.	2.3	6
51	Evaluation of HepaRG cells for the assessment of indirect drug-induced hepatotoxicity using INH as a model substance. <i>Human Cell</i> , 2017, 30, 267-278.	2.7	6
52	Raman spectroscopic investigation of the human liver stem cell line HepaRG. <i>Journal of Raman Spectroscopy</i> , 2018, 49, 935-942.	2.5	6
53	Negatively charged magnetic nanoparticles pass the blood-placenta barrier under continuous flow conditions in a time-dependent manner. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 521, 167535.	2.3	5
54	RUNX3 Transcript Variants Have Distinct Roles in Ovarian Carcinoma and Differently Influence Platinum Sensitivity and Angiogenesis. <i>Cancers</i> , 2021, 13, 476.	3.7	5

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55	Microfluidic devices for cell culture and handling in organ-on-a-chip applications. , 2014, , .		4
56	Sensor enhanced microfluidic devices for cell based assays and organs on chip. , 2015, , .		3
57	Rapid Target Binding and Cargo Release of Activatable Liposomes Bearing HER2 and FAP Single-Chain Antibody Fragments Reveal Potentials for Image-Guided Delivery to Tumors. <i>Pharmaceutics</i> , 2020, 12, 972.	4.5	3
58	Novel approach for the prediction of cell densities and viability in standardized translucent cell culture biochips with near infrared spectroscopy. <i>Engineering in Life Sciences</i> , 2017, 17, 585-593.	3.6	2
59	Effects Of Acute Exercise On Gene Expression Profiles In White Blood Cells. <i>Medicine and Science in Sports and Exercise</i> , 2005, 37, S336.	0.4	0
60	Organ-on-Chip. , 2022, , 1127-1144.		0