

Stefan Kalies

List of Publications by Year in descending order

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papers

576
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687363

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37
times ranked

831
citing authors

#	ARTICLE	IF	CITATIONS
1	Balanced Heterodyne Brillouin Spectroscopy Towards Tissue Characterization. IEEE Access, 2022, 10, 24340-24348.	4.2	1
2	Investigation of Colonic Regeneration via Precise Damage Application Using Femtosecond Laser-Based Nanosurgery. Cells, 2022, 11, 1143.	4.1	2
3	Mechanical Stimulation Induces <i>Vasa Vasorum</i> Capillary Alignment in a Fibrin-Based <i>Tunica Adventitia</i> . Tissue Engineering - Part A, 2022, 28, 818-832.	3.1	2
4	Vascular Network Formation on Macroporous Polydioxanone Scaffolds. Tissue Engineering - Part A, 2021, 27, 1239-1249.	3.1	7
5	High Density Bioprocessing of Human Pluripotent Stem Cells by Metabolic Control and in Silico Modeling. Stem Cells Translational Medicine, 2021, 10, 1063-1080.	3.3	47
6	Evaluation of laser induced sarcomere micro-damage: Role of damage extent and location in cardiomyocytes. PLoS ONE, 2021, 16, e0252346.	2.5	2
7	Probing interneuronal cell communication via optogenetic stimulation. Translational Biophotonics, 2021, 3, e202100002.	2.7	0
8	Intestinal Organoids in Colitis Research: Focusing on Variability and Cryopreservation. Stem Cells International, 2021, 2021, 1-15.	2.5	2
9	Intracellular Cargo Delivery Induced by Irradiating Polymer Substrates with Nanosecond-Pulsed Lasers. ACS Biomaterials Science and Engineering, 2021, 7, 5129-5134.	5.2	2
10	How Localized Z-Disc Damage Affects Force Generation and Gene Expression in Cardiomyocytes. Bioengineering, 2021, 8, 213.	3.5	2
11	Characterization of Tissue Engineered Endothelial Cell Networks in Composite Collagen-Agarose Hydrogels. Gels, 2020, 6, 27.	4.5	13
12	Establishment of a guided, in vivo, multi-channel, abdominal, tissue imaging approach. Scientific Reports, 2020, 10, 9224.	3.3	3
13	CD14 and ALPK1 Affect Expression of Tight Junction Components and Proinflammatory Mediators upon Bacterial Stimulation in a Colonic 3D Organoid Model. Stem Cells International, 2020, 2020, 1-11.	2.5	6
14	Biodistribution, biocompatibility and targeted accumulation of magnetic nanoporous silica nanoparticles as drug carrier in orthopedics. Journal of Nanobiotechnology, 2020, 18, 14.	9.1	28
15	Myoblast adhesion and proliferation on biodegradable polymer films with femtosecond laser-fabricated micro through-holes. Journal of Biophotonics, 2020, 13, e202000037.	2.3	9
16	Parameters for Optoperforation-Induced Killing of Cancer Cells Using Gold Nanoparticles Functionalized With the C-terminal Fragment of Clostridium Perfringens Enterotoxin. International Journal of Molecular Sciences, 2019, 20, 4248.	4.1	8
17	Formation of three-dimensional tubular endothelial cell networks under defined serum-free cell culture conditions in human collagen hydrogels. Scientific Reports, 2019, 9, 5437.	3.3	62
18	Effects of cell state and staining on femtosecond laser nanosurgery. Journal of Biophotonics, 2018, 11, e201700344.	2.3	4

#	ARTICLE	IF	CITATIONS
19	Gold nanoparticle-mediated laser stimulation induces a complex stress response in neuronal cells. <i>Scientific Reports</i> , 2018, 8, 6533.	3.3	21
20	CRISPR/Cas9 Genome Editing Using Gold Nanoparticle-Mediated Laserporation. <i>Advanced Biology</i> , 2018, 2, 1700184.	3.0	16
21	Gold nanoparticle-mediated laser stimulation causes a complex stress signal in neuronal cells. <i>Proceedings of SPIE</i> , 2017, , .	0.8	0
22	Modulation of cardiomyocyte activity using pulsed laser irradiated gold nanoparticles. <i>Biomedical Optics Express</i> , 2017, 8, 177.	2.9	35
23	Analysis of poration-induced changes in cells from laser-activated plasmonic substrates. <i>Biomedical Optics Express</i> , 2017, 8, 4756.	2.9	16
24	Investigation of Biophysical Mechanisms in Gold Nanoparticle Mediated Laser Manipulation of Cells Using a Multimodal Holographic and Fluorescence Imaging Setup. <i>PLoS ONE</i> , 2015, 10, e0124052.	2.5	19
25	Plasmonic cell manipulation for biomedical and screening applications. , 2015, , .		0
26	Characterization of the cellular response triggered by gold nanoparticle-mediated laser manipulation. <i>Journal of Biomedical Optics</i> , 2015, 20, 115005.	2.6	12
27	Perspectives in nanostructure assisted laser manipulation of mammalian cells. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
28	Experimental setup combining digital holographic microscopy (DHM) and fluorescence imaging to study gold nanoparticle mediated laser manipulation. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
29	Characterization of nanoparticle mediated laser transfection by femtosecond laser pulses for applications in molecular medicine. <i>Journal of Nanobiotechnology</i> , 2015, 13, 10.	9.1	50
30	Gold nanoparticle-mediated (GNOME) laser perforation: a new method for a high-throughput analysis of gap junction intercellular coupling. <i>Journal of Bioenergetics and Biomembranes</i> , 2015, 47, 441-449.	2.3	9
31	Biophysical effects in off-resonant gold nanoparticle mediated (GNOME) laser transfection of cell lines, primary- and stem cells using fs laser pulses. <i>Journal of Biophotonics</i> , 2015, 8, 646-658.	2.3	23
32	Surface modification of silica particles with gold nanoparticles as an augmentation of gold nanoparticle mediated laser perforation. <i>Biomedical Optics Express</i> , 2014, 5, 2686.	2.9	6
33	Plasmonic laser treatment for Morpholino oligomer delivery in antisense applications. <i>Journal of Biophotonics</i> , 2014, 7, 825-833.	2.3	17
34	Immobilization of gold nanoparticles on cell culture surfaces for safe and enhanced gold nanoparticle-mediated laser transfection. <i>Journal of Biomedical Optics</i> , 2014, 19, 070505.	2.6	13
35	Enhancement of extracellular molecule uptake in plasmonic laser perforation. <i>Journal of Biophotonics</i> , 2014, 7, 474-482.	2.3	34
36	Femtosecond Optoinjection of Intact Tobacco BY-2 Cells Using a Reconfigurable Photoporation Platform. <i>PLoS ONE</i> , 2013, 8, e79235.	2.5	11

#	ARTICLE	IF	CITATIONS
37	Gold Nanoparticle Mediated Laser Transfection for Efficient siRNA Mediated Gene Knock Down. PLoS ONE, 2013, 8, e58604.	2.5	94