

Stefan Kalies

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

576
citations

687363

13
h-index

642732

23
g-index

37
all docs

37
docs citations

37
times ranked

831
citing authors

#	ARTICLE	IF	CITATIONS
1	Gold Nanoparticle Mediated Laser Transfection for Efficient siRNA Mediated Gene Knock Down. PLoS ONE, 2013, 8, e58604.	2.5	94
2	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
3	Characterization of nanoparticle mediated laser transfection by femtosecond laser pulses for applications in molecular medicine. Journal of Nanobiotechnology, 2015, 13, 10.	9.1	50
4	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
5	Modulation of cardiomyocyte activity using pulsed laser irradiated gold nanoparticles. Biomedical Optics Express, 2017, 8, 177.	2.9	35
6	Enhancement of extracellular molecule uptake in plasmonic laser perforation. Journal of Biophotonics, 2014, 7, 474-482.	2.3	34
7	Biodistribution, biocompatibility and targeted accumulation of magnetic nanoporous silica nanoparticles as drug carrier in orthopedics. Journal of Nanobiotechnology, 2020, 18, 14.	9.1	28
8	Biophysical effects in off-resonant gold nanoparticle mediated (GNOME) laser transfection of cell lines, primary- and stem cells using fs laser pulses. Journal of Biophotonics, 2015, 8, 646-658.	2.3	23
9	Gold nanoparticle-mediated laser stimulation induces a complex stress response in neuronal cells. Scientific Reports, 2018, 8, 6533.	3.3	21
10	Investigation of Biophysical Mechanisms in Gold Nanoparticle Mediated Laser Manipulation of Cells Using a Multimodal Holographic and Fluorescence Imaging Setup. PLoS ONE, 2015, 10, e0124052.	2.5	19
11	Plasmonic laser treatment for Morpholino oligomer delivery in antisense applications. Journal of Biophotonics, 2014, 7, 825-833.	2.3	17
12	Analysis of poration-induced changes in cells from laser-activated plasmonic substrates. Biomedical Optics Express, 2017, 8, 4756.	2.9	16
13	CRISPR/Cas9 Genome Editing Using Gold Nanoparticle-Mediated Laserporation. Advanced Biology, 2018, 2, 1700184.	3.0	16
14	Immobilization of gold nanoparticles on cell culture surfaces for safe and enhanced gold nanoparticle-mediated laser transfection. Journal of Biomedical Optics, 2014, 19, 070505.	2.6	13
15	Characterization of Tissue Engineered Endothelial Cell Networks in Composite Collagen-Agarose Hydrogels. Gels, 2020, 6, 27.	4.5	13
16	Characterization of the cellular response triggered by gold nanoparticle-mediated laser manipulation. Journal of Biomedical Optics, 2015, 20, 115005.	2.6	12
17	Femtosecond Optoinjection of Intact Tobacco BY-2 Cells Using a Reconfigurable Photoporation Platform. PLoS ONE, 2013, 8, e79235.	2.5	11
18	Gold nanoparticle-mediated (GNOME) laser perforation: a new method for a high-throughput analysis of gap junction intercellular coupling. Journal of Bioenergetics and Biomembranes, 2015, 47, 441-449.	2.3	9

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19	Myoblast adhesion and proliferation on biodegradable polymer films with femtosecond laser-fabricated micro through-holes. <i>Journal of Biophotonics</i> , 2020, 13, e202000037.	2.3	9
20	Parameters for Optoperforation-Induced Killing of Cancer Cells Using Gold Nanoparticles Functionalized With the C-terminal Fragment of Clostridium Perfringens Enterotoxin. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4248.	4.1	8
21	Vascular Network Formation on Macroporous Polydioxanone Scaffolds. <i>Tissue Engineering - Part A</i> , 2021, 27, 1239-1249.	3.1	7
22	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
23	CD14 and ALPK1 Affect Expression of Tight Junction Components and Proinflammatory Mediators upon Bacterial Stimulation in a Colonic 3D Organoid Model. <i>Stem Cells International</i> , 2020, 2020, 1-11.	2.5	6
24	Effects of cell state and staining on femtosecond laser nanosurgery. <i>Journal of Biophotonics</i> , 2018, 11, e201700344.	2.3	4
25	Establishment of a guided, in vivo, multi-channel, abdominal, tissue imaging approach. <i>Scientific Reports</i> , 2020, 10, 9224.	3.3	3
26	Evaluation of laser induced sarcomere micro-damage: Role of damage extent and location in cardiomyocytes. <i>PLoS ONE</i> , 2021, 16, e0252346.	2.5	2
27	Intestinal Organoids in Colitis Research: Focusing on Variability and Cryopreservation. <i>Stem Cells International</i> , 2021, 2021, 1-15.	2.5	2
28	Intracellular Cargo Delivery Induced by Irradiating Polymer Substrates with Nanosecond-Pulsed Lasers. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 5129-5134.	5.2	2
29	Investigation of Colonic Regeneration via Precise Damage Application Using Femtosecond Laser-Based Nanosurgery. <i>Cells</i> , 2022, 11, 1143.	4.1	2
30	How Localized Z-Disc Damage Affects Force Generation and Gene Expression in Cardiomyocytes. <i>Bioengineering</i> , 2021, 8, 213.	3.5	2
31	Mechanical Stimulation Induces <i>Vasa Vasorum</i> Capillary Alignment in a Fibrin-Based <i>Tunica Adventitia</i> . <i>Tissue Engineering - Part A</i> , 2022, 28, 818-832.	3.1	2
32	Balanced Heterodyne Brillouin Spectroscopy Towards Tissue Characterization. <i>IEEE Access</i> , 2022, 10, 24340-24348.	4.2	1
33	Plasmonic cell manipulation for biomedical and screening applications. , 2015, , .		0
34	Perspectives in nanostructure assisted laser manipulation of mammalian cells. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
35	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
36	Gold nanoparticle-mediated laser stimulation causes a complex stress signal in neuronal cells. <i>Proceedings of SPIE</i> , 2017, , .	0.8	0

#	ARTICLE	IF	CITATIONS
37	Probing interneuronal cell communication via optogenetic stimulation. Translational Biophotonics, 2021, 3, e202100002.	2.7	0