Dag Heinemann

List of Publications by Year
in descending order

40 papers	527 citations	567281 15 h-index	642732 23 g-index
41 all docs	41 docs citations	41 times ranked	703 citing authors

#	Article	IF	Citations
1	Laser-based molecular delivery and its applications in plant science. Plant Methods, 2022, 18, .	4.3	4
2	Corneal riboflavin gradients and UV-absorption characteristics after topical application of riboflavin in concentrations ranging from 0.1 to 0.5%. Experimental Eye Research, 2021, 213, 108842.	2.6	6
3	PEGDMA Hydrogels for Cell Adhesion and Optical Waveguiding. ACS Applied Bio Materials, 2020, 3, 7011-7020.	4.6	5
4	Light-cell interactions in depth-resolved optogenetics. Biomedical Optics Express, 2020, 11, 6536.	2.9	3
5	Evaluation of a model for deep tissue optogenetic stimulation. , 2020, , .		0
6	Targeted genome editing in potato protoplast via optical delivery of CRISPR/Cas9 ribonucleoproteins. , 2020, , .		1
7	Fabrication of a Monolithic Lab-on-a-Chip Platform with Integrated Hydrogel Waveguides for Chemical Sensing. Sensors, 2019, 19, 4333.	3.8	21
8	Scanning laser optical tomography in aÂneuropathic mouse model. Hno, 2019, 67, 69-76.	1.0	1
9	Hydrogels for targeted waveguiding and light diffusion. Optical Materials Express, 2019, 9, 3925.	3.0	5
10	Hydrogels for light delivery in in vivo optogenetic applications. , 2019, , .		0
11	Shrinkable silver diffraction grating fabricated inside a hydrogel using 522-nm femtosecond laser. Scientific Reports, 2018, 8, 187.	3.3	23
12	Gold nanoparticle-mediated laser stimulation induces a complex stress response in neuronal cells. Scientific Reports, 2018, 8, 6533.	3.3	21
13	CRISPR/Cas9 Genome Editing Using Goldâ€Nanoparticleâ€Mediated Laserporation. Advanced Biology, 2018, 2, 1700184.	3.0	16
14	Hydrogels for efficient light delivery in optogenetic applications. , 2018, , .		1
15	Intracellular localization and delivery of plasmid DNA by biodegradable microsphereâ€mediated femtosecond laser optoporation. Journal of Biophotonics, 2017, 10, 1723-1731.	2.3	10
16	Photothermal gold nanoparticle mediated stimulation of cardiomyocyte beating (Conference) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142		0
17	Gold nanoparticle-mediated laser stimulation causes a complex stress signal in neuronal cells. Proceedings of SPIE, 2017, , .	0.8	0
18	Modulation of cardiomyocyte activity using pulsed laser irradiated gold nanoparticles. Biomedical Optics Express, 2017, 8, 177.	2.9	35

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19	Analysis of poration-induced changes in cells from laser-activated plasmonic substrates. Biomedical Optics Express, 2017, 8, 4756.	2.9	16
20	Scanning laser optical tomography for in toto imaging of the murine cochlea. PLoS ONE, 2017, 12, e0175431.	2.5	16
21	Biodegradable microsphere-mediated cell perforation in microfluidic channel using femtosecond laser. Journal of Biomedical Optics, 2016, 21, 055001.	2.6	6
22	Femtosecond laser direct writing of metal microstructure in a stretchable poly(ethylene glycol) diacrylate (PEGDA) hydrogel. Optics Letters, 2016, 41, 1392.	3.3	28
23	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
24	Plasmonic cell manipulation for biomedical and screening applications. , 2015, , .		0
25	Characterization of the cellular response triggered by gold nanoparticleâ€“mediated laser manipulation. Journal of Biomedical Optics, 2015, 20, 115005.	2.6	12
26	Perspectives in nanostructure assisted laser manipulation of mammalian cells. Proceedings of SPIE, 2015, , .	0.8	0
27	Characterization of nanoparticle mediated laser transfection by femtosecond laser pulses for applications in molecular medicine. Journal of Nanobiotechnology, 2015, 13, 10.	9.1	50
28	Laser transfection with gold nanoparticles: current state and new particle structures as a perspective. , 2015, , .		0
29	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
30	Surface modification of silica particles with gold nanoparticles as an augmentation of gold nanoparticle mediated laser perforation. Biomedical Optics Express, 2014, 5, 2686.	2.9	6
31	Plasmonic laser treatment for Morpholino oligomer delivery in antisense applications. Journal of Biophotonics, 2014, 7, 825-833.	2.3	17
32	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
33	Delivery of proteins to mammalian cells via gold nanoparticle mediated laser transfection. Nanotechnology, 2014, 25, 245101.	2.6	34
34	Enhancement of extracellular molecule uptake in plasmonic laser perforation. Journal of Biophotonics, 2014, 7, 474-482.	2.3	34
35	Mechanistic investigations and molecular medicine applications of gold nanoparticle mediated (GNOME) laser transfection. , 2014, , .		1
36	Plasmonics on nanostructures for cell manipulation. , 2013, , .		0

#	Article	IF	Citations
37	Gold nanoparticle mediated laser transfection for high-throughput antisense applications. , 2013, , .		0
38	Gold Nanoparticle Mediated Laser Transfection for Efficient siRNA Mediated Gene Knock Down. PLoS ONE, 2013, 8, e58604.	2.5	94
39	Mechanisms of gold nanoparticle mediated ultrashort laser cell membrane perforation. , 2011, , .		5
40	Gold nanoparticle mediated cell manipulation using fs and ps laser pulses for cell perforation and transfection. Proceedings of SPIE, 2011, , .	0.8	1