

# Dag Heinemann

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Gold Nanoparticle Mediated Laser Transfection for Efficient siRNA Mediated Gene Knock Down. PLoS ONE, 2013, 8, e58604.	2.5	94
2	Characterization of nanoparticle mediated laser transfection by femtosecond laser pulses for applications in molecular medicine. Journal of Nanobiotechnology, 2015, 13, 10.	9.1	50
3	Modulation of cardiomyocyte activity using pulsed laser irradiated gold nanoparticles. Biomedical Optics Express, 2017, 8, 177.	2.9	35
4	Delivery of proteins to mammalian cells via gold nanoparticle mediated laser transfection. Nanotechnology, 2014, 25, 245101.	2.6	34
5	Enhancement of extracellular molecule uptake in plasmonic laser perforation. Journal of Biophotonics, 2014, 7, 474-482.	2.3	34
6	Femtosecond laser direct writing of metal microstructure in a stretchable poly(ethylene glycol) diacrylate (PEGDA) hydrogel. Optics Letters, 2016, 41, 1392.	3.3	28
7	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
8	Shrinkable silver diffraction grating fabricated inside a hydrogel using 522-nm femtosecond laser. Scientific Reports, 2018, 8, 187.	3.3	23
9	Gold nanoparticle-mediated laser stimulation induces a complex stress response in neuronal cells. Scientific Reports, 2018, 8, 6533.	3.3	21
10	Fabrication of a Monolithic Lab-on-a-Chip Platform with Integrated Hydrogel Waveguides for Chemical Sensing. Sensors, 2019, 19, 4333.	3.8	21
11	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
12	Plasmonic laser treatment for Morpholino oligomer delivery in antisense applications. Journal of Biophotonics, 2014, 7, 825-833.	2.3	17
13	Analysis of poration-induced changes in cells from laser-activated plasmonic substrates. Biomedical Optics Express, 2017, 8, 4756.	2.9	16
14	CRISPR/Cas9 Genome Editing Using Gold Nanoparticle-Mediated Laserporation. Advanced Biology, 2018, 2, 1700184.	3.0	16
15	Scanning laser optical tomography for in toto imaging of the murine cochlea. PLoS ONE, 2017, 12, e0175431.	2.5	16
16	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
17	Characterization of the cellular response triggered by gold nanoparticle-mediated laser manipulation. Journal of Biomedical Optics, 2015, 20, 115005.	2.6	12
18	Intracellular localization and delivery of plasmid DNA by biodegradable microsphere-mediated femtosecond laser optoporation. Journal of Biophotonics, 2017, 10, 1723-1731.	2.3	10

#	ARTICLE	IF	CITATIONS
19	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
20	Biodegradable microsphere-mediated cell perforation in microfluidic channel using femtosecond laser. Journal of Biomedical Optics, 2016, 21, 055001.	2.6	6
21	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
22	Mechanisms of gold nanoparticle mediated ultrashort laser cell membrane perforation. , 2011, , .		5
23	PEGDMA Hydrogels for Cell Adhesion and Optical Waveguiding. ACS Applied Bio Materials, 2020, 3, 7011-7020.	4.6	5
24	Hydrogels for targeted waveguiding and light diffusion. Optical Materials Express, 2019, 9, 3925.	3.0	5
25	Laser-based molecular delivery and its applications in plant science. Plant Methods, 2022, 18, .	4.3	4
26	Light-cell interactions in depth-resolved optogenetics. Biomedical Optics Express, 2020, 11, 6536.	2.9	3
27	Gold nanoparticle mediated cell manipulation using fs and ps laser pulses for cell perforation and transfection. Proceedings of SPIE, 2011, , .	0.8	1
28	Mechanistic investigations and molecular medicine applications of gold nanoparticle mediated (GNOME) laser transfection. , 2014, , .		1
29	Scanning laser optical tomography in a neuropathic mouse model. Hno, 2019, 67, 69-76.	1.0	1
30	Hydrogels for efficient light delivery in optogenetic applications. , 2018, , .		1
31	Targeted genome editing in potato protoplast via optical delivery of CRISPR/Cas9 ribonucleoproteins. , 2020, , .		1
32	Plasmonics on nanostructures for cell manipulation. , 2013, , .		0
33	Gold nanoparticle mediated laser transfection for high-throughput antisense applications. , 2013, , .		0
34	Plasmonic cell manipulation for biomedical and screening applications. , 2015, , .		0
35	Perspectives in nanostructure assisted laser manipulation of mammalian cells. Proceedings of SPIE, 2015, , .	0.8	0
36	Laser transfection with gold nanoparticles: current state and new particle structures as a perspective. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
37	Photothermal gold nanoparticle mediated stimulation of cardiomyocyte beating (Conference) Tj ETQq1 1 0.784314 rgBT /Ovgrlock 10 T		
38	Gold nanoparticle-mediated laser stimulation causes a complex stress signal in neuronal cells. Proceedings of SPIE, 2017, , .	0.8	0
39	Hydrogels for light delivery in in vivo optogenetic applications. , 2019, , .		0
40	Evaluation of a model for deep tissue optogenetic stimulation. , 2020, , .		0