Oliver T Bruns

List of Publications by Year
in descending order

43 papers	6,732 citations	126708 33 h-index	264894 42 g-index
45 all docs	45 docs citations	45 times ranked	11416 citing authors

#	Article	IF	Citations
1	Targeted multicolor in vivo imaging over 1,000â€‰nm enabled by nonamethine cyanines. Nature Methods, 2022, 19, 353-358.	9.0	65
2	Lysosomal lipoprotein processing in endothelial cells stimulates adipose tissue thermogenic adaptation. Cell Metabolism, 2021, 33, 547-564.e7.	7.2	48
3	Bright Chromenylium Polymethine Dyes Enable Fast, Four-Color In Vivo Imaging with Shortwave Infrared Detection. Journal of the American Chemical Society, 2021, 143, 6836-6846.	6.6	98
4	Shortwave infrared polymethine fluorophores matched to excitation lasers enable non-invasive, multicolour in vivo imaging in real time. Nature Chemistry, 2020, 12, 1123-1130.	6.6	172
5	Non-invasive monitoring of chronic liver disease via near-infrared and shortwave-infrared imaging of endogenous lipofuscin. Nature Biomedical Engineering, 2020, 4, 801-813.	11.6	34
6	Cellular and Molecular Probing of Intact Human Organs. Cell, 2020, 180, 796-812.e19.	13.5	187
7	Shortwave Infrared Imaging with J-Aggregates Stabilized in Hollow Mesoporous Silica Nanoparticles. Journal of the American Chemical Society, 2019, 141, 12475-12480.	6.6	128
8	Increasing the penetration depth of temporal focusing multiphoton microscopy for neurobiological applications. Journal Physics D: Applied Physics, 2019, 52, 264001.	1.3	10
9	Shortwave infrared fluorescence imaging with the clinically approved near-infrared dye indocyanine green. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4465-4470.	3.3	498
10	Brown adipose tissue thermogenic adaptation requires Nrf1-mediated proteasomal activity. Nature Medicine, 2018, 24, 292-303.	15.2	154
11	Initial findings of shortwave infrared otoscopy in a pediatric population. International Journal of Pediatric Otorhinolaryngology, 2018, 114, 15-19.	0.4	8
12	Absorption by water increases fluorescence image contrast of biological tissue in the shortwave infrared. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9080-9085.	3.3	89
13	Exceedingly small iron oxide nanoparticles as positive MRI contrast agents. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2325-2330.	3.3	374
14	Next-generation in vivo optical imaging with short-wave infrared quantum dots. Nature Biomedical Engineering, 2017, 1, .	11.6	490
15	Wide-field three-photon excitation in biological samples. Light: Science and Applications, 2017, 6, e16255-e16255.	7.7	67
16	Shortwave Infrared in Vivo Imaging with Gold Nanoclusters. Nano Letters, 2017, 17, 6330-6334.	4.5	149
17	Flavylium Polymethine Fluorophores for Nearâ€•and Shortwave Infrared Imaging. Angewandte Chemie, 2017, 129, 13306-13309.	1.6	47
18	Flavylium Polymethine Fluorophores for Nearâ€•and Shortwave Infrared Imaging. Angewandte Chemie - International Edition, 2017, 56, 13126-13129.	7.2	301

#	Article	IF	Citations
19	Using the shortwave infrared to image middle ear pathologies. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9989-9994.	3.3	44
20	Continuous injection synthesis of indium arsenide quantum dots emissive in the short-wavelength infrared. Nature Communications, 2016, 7, 12749.	5.8	209
21	Near-Infrared Temporal Focusing Microscopy with Quantum Dot Fluorophores. , 2016, , .		0
22	Nanoparticle-based autoantigen delivery to Treg-inducing liver sinusoidal endothelial cells enables control of autoimmunity in mice. Journal of Hepatology, 2015, 62, 1349-1356.	1.8	145
23	Micelle-Encapsulated Quantum Dot-Porphyrin Assemblies as in Vivo Two-Photon Oxygen Sensors. Journal of the American Chemical Society, 2015, 137, 9832-9842.	6.6	104
24	Objective, comparative assessment of the penetration depth of temporal-focusing microscopy for imaging various organs. Journal of Biomedical Optics, 2015, 20, 061107.	1.4	9
25	Determination of liverâ€specific r₂* of a highly monodisperse USPIO by ⁵⁹Fe iron coreâ€labeling in mice at 3 T MRI. Contrast Media and Molecular Imaging, 2015, 10, 153-162.	0.4	5
26	The cell-type specific uptake of polymer-coated or micelle-embedded QDs and SPIOs does not provoke an acute pro-inflammatory response in the liver. Beilstein Journal of Nanotechnology, 2014, 5, 1432-1440.	1.5	13
27	Intraperitoneal Injection Improves the Uptake of Nanoparticle-Labeled High-Density Lipoprotein to Atherosclerotic Plaques Compared With Intravenous Injection. Circulation: Cardiovascular Imaging, 2014, 7, 303-311.	1.3	43
28	Magneto-fluorescent core-shell supernanoparticles. Nature Communications, 2014, 5, 5093.	5.8	223
29	Selectins Mediate Small Cell Lung Cancer Systemic Metastasis. PLoS ONE, 2014, 9, e92327.	1.1	45
30	Compact zwitterion-coated iron oxide nanoparticles for in vitro and in vivo imaging. Integrative Biology (United Kingdom), 2013, 5, 108-114.	0.6	37
31	Inhibition of inflammatory CD4 T cell activity by murine liver sinusoidal endothelial cells. Journal of Hepatology, 2013, 58, 112-118.	1.8	91
32	Nanocrystals, a New Tool to Study Lipoprotein Metabolism and Atherosclerosis. Current Pharmaceutical Biotechnology, 2012, 13, 365-372.	0.9	10
33	A Simple and Widely Applicable Method to ⁵⁹Fe-Radiolabel Monodisperse Superparamagnetic Iron Oxide Nanoparticles for In Vivo Quantification Studies. ACS Nano, 2012, 6, 7318-7325.	7.3	82
34	Brown adipose tissue activity controls triglyceride clearance. Nature Medicine, 2011, 17, 200-205.	15.2	1,367
35	Investigations on the Usefulness of CEACAMs as Potential Imaging Targets for Molecular Imaging Purposes. PLoS ONE, 2011, 6, e28030.	1.1	18
36	Inflammatory and age-related pathologies in mice with ectopic expression of human PARP-1. Mechanisms of Ageing and Development, 2010, 131, 389-404.	2.2	57

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37	Real-time magnetic resonance imaging and quantification of lipoprotein metabolism in vivo using nanocrystals. Nature Nanotechnology, 2009, 4, 193-201.	15.6	159
38	A Highly Effective, Nontoxic T₁ MR Contrast Agent Based on Ultrasmall PEGylated Iron Oxide Nanoparticles. Nano Letters, 2009, 9, 4434-4440.	4.5	385
39	Uptake of Colloidal Polyelectrolyteâ€Coated Particles and Polyelectrolyte Multilayer Capsules by Living Cells. Advanced Materials, 2008, 20, 4281-4287.	11.1	170
40	Structural characterization of Î²-sheeted oligomers formed on the pathway of oxidative prion protein aggregation in vitro. Journal of Structural Biology, 2007, 157, 308-320.	1.3	51
41	High resolution structure of streptavidin in complex with a novel high affinity peptide tag mimicking the biotin binding motif. Proteins: Structure, Function and Bioinformatics, 2007, 67, 1147-1153.	1.5	8
42	Size and Surface Effects on the MRI Relaxivity of Manganese Ferrite Nanoparticle Contrast Agents. Nano Letters, 2007, 7, 2422-2427.	4.5	401
43	Comparative Examination of the Stability of Semiconductor Quantum Dots in Various Biochemical Buffers. Journal of Physical Chemistry B, 2006, 110, 1959-1963.	1.2	128