

Oliver T Bruns

List of Publications by Year in descending order

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Version: 2024-02-01

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	Brown adipose tissue activity controls triglyceride clearance. <i>Nature Medicine</i> , 2011, 17, 200-205.	15.2	1,367
2	Shortwave infrared fluorescence imaging with the clinically approved near-infrared dye indocyanine green. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 4465-4470.	3.3	498
3	Next-generation in vivo optical imaging with short-wave infrared quantum dots. <i>Nature Biomedical Engineering</i> , 2017, 1, .	11.6	490
4	Size and Surface Effects on the MRI Relaxivity of Manganese Ferrite Nanoparticle Contrast Agents. <i>Nano Letters</i> , 2007, 7, 2422-2427.	4.5	401
5	A Highly Effective, Nontoxic T_1 MR Contrast Agent Based on Ultrasmall PEGylated Iron Oxide Nanoparticles. <i>Nano Letters</i> , 2009, 9, 4434-4440.	4.5	385
6	Exceedingly small iron oxide nanoparticles as positive MRI contrast agents. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 2325-2330.	3.3	374
7	Flavylium Polymethine Fluorophores for Near- and Shortwave Infrared Imaging. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13126-13129.	7.2	301
8	Magneto-fluorescent core-shell supernanoparticles. <i>Nature Communications</i> , 2014, 5, 5093.	5.8	223
9	Continuous injection synthesis of indium arsenide quantum dots emissive in the short-wavelength infrared. <i>Nature Communications</i> , 2016, 7, 12749.	5.8	209
10	Cellular and Molecular Probing of Intact Human Organs. <i>Cell</i> , 2020, 180, 796-812.e19.	13.5	187
11	Shortwave infrared polymethine fluorophores matched to excitation lasers enable non-invasive, multicolour in vivo imaging in real time. <i>Nature Chemistry</i> , 2020, 12, 1123-1130.	6.6	172
12	Uptake of Colloidal Polyelectrolyte-Coated Particles and Polyelectrolyte Multilayer Capsules by Living Cells. <i>Advanced Materials</i> , 2008, 20, 4281-4287.	11.1	170
13	Real-time magnetic resonance imaging and quantification of lipoprotein metabolism in vivo using nanocrystals. <i>Nature Nanotechnology</i> , 2009, 4, 193-201.	15.6	159
14	Brown adipose tissue thermogenic adaptation requires Nrf1-mediated proteasomal activity. <i>Nature Medicine</i> , 2018, 24, 292-303.	15.2	154
15	Shortwave Infrared in Vivo Imaging with Gold Nanoclusters. <i>Nano Letters</i> , 2017, 17, 6330-6334.	4.5	149
16	Nanoparticle-based autoantigen delivery to Treg-inducing liver sinusoidal endothelial cells enables control of autoimmunity in mice. <i>Journal of Hepatology</i> , 2015, 62, 1349-1356.	1.8	145
17	Comparative Examination of the Stability of Semiconductor Quantum Dots in Various Biochemical Buffers. <i>Journal of Physical Chemistry B</i> , 2006, 110, 1959-1963.	1.2	128
18	Shortwave Infrared Imaging with J-Aggregates Stabilized in Hollow Mesoporous Silica Nanoparticles. <i>Journal of the American Chemical Society</i> , 2019, 141, 12475-12480.	6.6	128

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19	Micelle-Encapsulated Quantum Dot-Porphyrin Assemblies as <i>in Vivo</i> Two-Photon Oxygen Sensors. <i>Journal of the American Chemical Society</i> , 2015, 137, 9832-9842.	6.6	104
20	Bright Chromenylum Polymethine Dyes Enable Fast, Four-Color <i>In Vivo</i> Imaging with Shortwave Infrared Detection. <i>Journal of the American Chemical Society</i> , 2021, 143, 6836-6846.	6.6	98
21	Inhibition of inflammatory CD4 T cell activity by murine liver sinusoidal endothelial cells. <i>Journal of Hepatology</i> , 2013, 58, 112-118.	1.8	91
22	Absorption by water increases fluorescence image contrast of biological tissue in the shortwave infrared. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 9080-9085.	3.3	89
23	A Simple and Widely Applicable Method to ⁵⁹ Fe-Radiolabel Monodisperse Superparamagnetic Iron Oxide Nanoparticles for <i>In Vivo</i> Quantification Studies. <i>ACS Nano</i> , 2012, 6, 7318-7325.	7.3	82
24	Wide-field three-photon excitation in biological samples. <i>Light: Science and Applications</i> , 2017, 6, e16255-e16255.	7.7	67
25	Targeted multicolor <i>in vivo</i> imaging over 1,000 nm enabled by nonamethine cyanines. <i>Nature Methods</i> , 2022, 19, 353-358.	9.0	65
26	Inflammatory and age-related pathologies in mice with ectopic expression of human PARP-1. <i>Mechanisms of Ageing and Development</i> , 2010, 131, 389-404.	2.2	57
27	Structural characterization of β^2 -sheeted oligomers formed on the pathway of oxidative prion protein aggregation <i>in vitro</i> . <i>Journal of Structural Biology</i> , 2007, 157, 308-320.	1.3	51
28	Lysosomal lipoprotein processing in endothelial cells stimulates adipose tissue thermogenic adaptation. <i>Cell Metabolism</i> , 2021, 33, 547-564.e7.	7.2	48
29	Flavylium Polymethine Fluorophores for Near- and Shortwave Infrared Imaging. <i>Angewandte Chemie</i> , 2017, 129, 13306-13309.	1.6	47
30	Selectins Mediate Small Cell Lung Cancer Systemic Metastasis. <i>PLoS ONE</i> , 2014, 9, e92327.	1.1	45
31	Using the shortwave infrared to image middle ear pathologies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 9989-9994.	3.3	44
32	Intraperitoneal Injection Improves the Uptake of Nanoparticle-Labeled High-Density Lipoprotein to Atherosclerotic Plaques Compared With Intravenous Injection. <i>Circulation: Cardiovascular Imaging</i> , 2014, 7, 303-311.	1.3	43
33	Compact zwitterion-coated iron oxide nanoparticles for <i>in vitro</i> and <i>in vivo</i> imaging. <i>Integrative Biology (United Kingdom)</i> , 2013, 5, 108-114.	0.6	37
34	Non-invasive monitoring of chronic liver disease via near-infrared and shortwave-infrared imaging of endogenous lipofuscin. <i>Nature Biomedical Engineering</i> , 2020, 4, 801-813.	11.6	34
35	Investigations on the Usefulness of CEACAMs as Potential Imaging Targets for Molecular Imaging Purposes. <i>PLoS ONE</i> , 2011, 6, e28030.	1.1	18
36	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. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 1432-1440.	1.5	13

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37	Nanocrystals, a New Tool to Study Lipoprotein Metabolism and Atherosclerosis. Current Pharmaceutical Biotechnology, 2012, 13, 365-372.	0.9	10
38	Increasing the penetration depth of temporal focusing multiphoton microscopy for neurobiological applications. Journal Physics D: Applied Physics, 2019, 52, 264001.	1.3	10
39	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
40	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
41	Initial findings of shortwave infrared otoscopy in a pediatric population. International Journal of Pediatric Otorhinolaryngology, 2018, 114, 15-19.	0.4	8
42	Determination of liver-specific ^{59}Fe iron core-labeling in mice at 3 T MRI. Contrast Media and Molecular Imaging, 2015, 10, 153-162.	0.4	5
43	Near-Infrared Temporal Focusing Microscopy with Quantum Dot Fluorophores. , 2016, , .		0