

# Oliver T Bruns

## List of Publications by Year in Descending Order

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**Version:** 2024-04-19

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

43  
papers

5,046  
citations

30  
h-index

45  
g-index

45  
ext. papers

5,932  
ext. citations

13.5  
avg, IF

5.14  
L-index

#	Paper	IF	Citations
43	Targeted multicolor in vivo imaging over 1,000 nm enabled by nonamethine cyanines.. <i>Nature Methods</i> , <b>2022</b> ,	21.6	5
42	Lysosomal lipoprotein processing in endothelial cells stimulates adipose tissue thermogenic adaptation. <i>Cell Metabolism</i> , <b>2021</b> , 33, 547-564.e7	24.6	21
41	Bright Chromenylum Polymethine Dyes Enable Fast, Four-Color Imaging with Shortwave Infrared Detection. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 6836-6846	16.4	30
40	Non-invasive monitoring of chronic liver disease via near-infrared and shortwave-infrared imaging of endogenous lipofuscin. <i>Nature Biomedical Engineering</i> , <b>2020</b> , 4, 801-813	19	14
39	Cellular and Molecular Probing of Intact Human Organs. <i>Cell</i> , <b>2020</b> , 180, 796-812.e19	56.2	96
38	Shortwave infrared polymethine fluorophores matched to excitation lasers enable non-invasive, multicolour in vivo imaging in real time. <i>Nature Chemistry</i> , <b>2020</b> , 12, 1123-1130	17.6	71
37	Increasing the penetration depth of temporal focusing multiphoton microscopy for neurobiological applications. <i>Journal Physics D: Applied Physics</i> , <b>2019</b> , 52, 264001	3	7
36	Shortwave Infrared Imaging with J-Aggregates Stabilized in Hollow Mesoporous Silica Nanoparticles. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 12475-12480	16.4	71
35	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> , <b>2018</b> , 115, 4465-4470	11.5	317
34	Brown adipose tissue thermogenic adaptation requires Nrf1-mediated proteasomal activity. <i>Nature Medicine</i> , <b>2018</b> , 24, 292-303	50.5	92
33	Initial findings of shortwave infrared otoscopy in a pediatric population. <i>International Journal of Pediatric Otorhinolaryngology</i> , <b>2018</b> , 114, 15-19	1.7	5
32	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> , <b>2018</b> , 115, 9080-9085	11.5	48
31	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> , <b>2017</b> , 114, 2325-2330	11.5	270
30	Next-generation optical imaging with short-wave infrared quantum dots. <i>Nature Biomedical Engineering</i> , <b>2017</b> , 1,	19	360
29	Wide-field three-photon excitation in biological samples. <i>Light: Science and Applications</i> , <b>2017</b> , 6, e16255	16.7	44
28	Shortwave Infrared in Vivo Imaging with Gold Nanoclusters. <i>Nano Letters</i> , <b>2017</b> , 17, 6330-6334	11.5	109
27	Flavylium Polymethine Fluorophores for Near- and Shortwave Infrared Imaging. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 13306-13309	3.6	37

26	Flavylium Polymethine Fluorophores for Near- and Shortwave Infrared Imaging. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 13126-13129	16.4	200
25	Using the shortwave infrared to image middle ear pathologies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 9989-94	11.5	24
24	Continuous injection synthesis of indium arsenide quantum dots emissive in the short-wavelength infrared. <i>Nature Communications</i> , <b>2016</b> , 7, 12749	17.4	156
23	Micelle-Encapsulated Quantum Dot-Porphyrin Assemblies as in Vivo Two-Photon Oxygen Sensors. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 9832-42	16.4	88
22	Objective, comparative assessment of the penetration depth of temporal-focusing microscopy for imaging various organs. <i>Journal of Biomedical Optics</i> , <b>2015</b> , 20, 61107	3.5	7
21	Determination of liver-specific $r_2^*$ of a highly monodisperse USPIO by (59) Fe iron core-labeling in mice at 3 T MRI. <i>Contrast Media and Molecular Imaging</i> , <b>2015</b> , 10, 153-62	3.2	5
20	Nanoparticle-based autoantigen delivery to Treg-inducing liver sinusoidal endothelial cells enables control of autoimmunity in mice. <i>Journal of Hepatology</i> , <b>2015</b> , 62, 1349-56	13.4	111
19	Magneto-fluorescent core-shell supernanoparticles. <i>Nature Communications</i> , <b>2014</b> , 5, 5093	17.4	197
18	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> , <b>2014</b> , 5, 1432-1440	3	11
17	Intraperitoneal injection improves the uptake of nanoparticle-labeled high-density lipoprotein to atherosclerotic plaques compared with intravenous injection: a multimodal imaging study in ApoE knockout mice. <i>Circulation: Cardiovascular Imaging</i> , <b>2014</b> , 7, 303-11	3.9	40
16	Selectins mediate small cell lung cancer systemic metastasis. <i>PLoS ONE</i> , <b>2014</b> , 9, e92327	3.7	35
15	Compact zwitterion-coated iron oxide nanoparticles for in vitro and in vivo imaging. <i>Integrative Biology (United Kingdom)</i> , <b>2013</b> , 5, 108-14	3.7	32
14	Inhibition of inflammatory CD4 T cell activity by murine liver sinusoidal endothelial cells. <i>Journal of Hepatology</i> , <b>2013</b> , 58, 112-8	13.4	79
13	A simple and widely applicable method to <sup>59</sup> Fe-radiolabel monodisperse superparamagnetic iron oxide nanoparticles for in vivo quantification studies. <i>ACS Nano</i> , <b>2012</b> , 6, 7318-25	16.7	74
12	Nanocrystals, a new tool to study lipoprotein metabolism and atherosclerosis. <i>Current Pharmaceutical Biotechnology</i> , <b>2012</b> , 13, 365-72	2.6	9
11	Brown adipose tissue activity controls triglyceride clearance. <i>Nature Medicine</i> , <b>2011</b> , 17, 200-5	50.5	1102
10	Investigations on the usefulness of CEACAMs as potential imaging targets for molecular imaging purposes. <i>PLoS ONE</i> , <b>2011</b> , 6, e28030	3.7	17
9	Inflammatory and age-related pathologies in mice with ectopic expression of human PARP-1. <i>Mechanisms of Ageing and Development</i> , <b>2010</b> , 131, 389-404	5.6	49

8	Real-time magnetic resonance imaging and quantification of lipoprotein metabolism in vivo using nanocrystals. <i>Nature Nanotechnology</i> , <b>2009</b> , 4, 193-201	28.7	149
7	A highly effective, nontoxic T1 MR contrast agent based on ultrasmall PEGylated iron oxide nanoparticles. <i>Nano Letters</i> , <b>2009</b> , 9, 4434-40	11.5	352
6	Uptake of Colloidal Polyelectrolyte-Coated Particles and Polyelectrolyte Multilayer Capsules by Living Cells. <i>Advanced Materials</i> , <b>2008</b> , 20, 4281-4287	24	162
5	High resolution structure of streptavidin in complex with a novel high affinity peptide tag mimicking the biotin binding motif. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2007</b> , 67, 1147-53	4.2	8
4	Size and surface effects on the MRI relaxivity of manganese ferrite nanoparticle contrast agents. <i>Nano Letters</i> , <b>2007</b> , 7, 2422-7	11.5	369
3	Structural characterization of beta-sheeted oligomers formed on the pathway of oxidative prion protein aggregation in vitro. <i>Journal of Structural Biology</i> , <b>2007</b> , 157, 308-20	3.4	47
2	Comparative examination of the stability of semiconductor quantum dots in various biochemical buffers. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 1959-63	3.4	119
1	Shortwave Infrared Fluorescence Imaging with the Clinically Approved Near-Infrared Dye Indocyanine Green		7