

Oliver T Bruns

List of Publications by Citations

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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	Brown adipose tissue activity controls triglyceride clearance. <i>Nature Medicine</i> , 2011 , 17, 200-5	50.5	1102
42	Size and surface effects on the MRI relaxivity of manganese ferrite nanoparticle contrast agents. <i>Nano Letters</i> , 2007 , 7, 2422-7	11.5	369
41	Next-generation optical imaging with short-wave infrared quantum dots. <i>Nature Biomedical Engineering</i> , 2017 , 1,	19	360
40	A highly effective, nontoxic T1 MR contrast agent based on ultrasmall PEGylated iron oxide nanoparticles. <i>Nano Letters</i> , 2009 , 9, 4434-40	11.5	352
39	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	11.5	317
38	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	11.5	270
37	Flavylum Polymethine Fluorophores for Near- and Shortwave Infrared Imaging. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 13126-13129	16.4	200
36	Magneto-fluorescent core-shell supernanoparticles. <i>Nature Communications</i> , 2014 , 5, 5093	17.4	197
35	Uptake of Colloidal Polyelectrolyte-Coated Particles and Polyelectrolyte Multilayer Capsules by Living Cells. <i>Advanced Materials</i> , 2008 , 20, 4281-4287	24	162
34	Continuous injection synthesis of indium arsenide quantum dots emissive in the short-wavelength infrared. <i>Nature Communications</i> , 2016 , 7, 12749	17.4	156
33	Real-time magnetic resonance imaging and quantification of lipoprotein metabolism in vivo using nanocrystals. <i>Nature Nanotechnology</i> , 2009 , 4, 193-201	28.7	149
32	Comparative examination of the stability of semiconductor quantum dots in various biochemical buffers. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 1959-63	3.4	119
31	Nanoparticle-based autoantigen delivery to Treg-inducing liver sinusoidal endothelial cells enables control of autoimmunity in mice. <i>Journal of Hepatology</i> , 2015 , 62, 1349-56	13.4	111
30	Shortwave Infrared in Vivo Imaging with Gold Nanoclusters. <i>Nano Letters</i> , 2017 , 17, 6330-6334	11.5	109
29	Cellular and Molecular Probing of Intact Human Organs. <i>Cell</i> , 2020 , 180, 796-812.e19	56.2	96
28	Brown adipose tissue thermogenic adaptation requires Nrf1-mediated proteasomal activity. <i>Nature Medicine</i> , 2018 , 24, 292-303	50.5	92
27	Micelle-Encapsulated Quantum Dot-Porphyrin Assemblies as in Vivo Two-Photon Oxygen Sensors. <i>Journal of the American Chemical Society</i> , 2015 , 137, 9832-42	16.4	88

26	Inhibition of inflammatory CD4 T cell activity by murine liver sinusoidal endothelial cells. <i>Journal of Hepatology</i> , 2013 , 58, 112-8	13.4	79
25	A simple and widely applicable method to ⁵⁹ Fe-radiolabel monodisperse superparamagnetic iron oxide nanoparticles for in vivo quantification studies. <i>ACS Nano</i> , 2012 , 6, 7318-25	16.7	74
24	Shortwave Infrared Imaging with J-Aggregates Stabilized in Hollow Mesoporous Silica Nanoparticles. <i>Journal of the American Chemical Society</i> , 2019 , 141, 12475-12480	16.4	71
23	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	17.6	71
22	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	5.6	49
21	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	11.5	48
20	Structural characterization of beta-sheeted oligomers formed on the pathway of oxidative prion protein aggregation in vitro. <i>Journal of Structural Biology</i> , 2007 , 157, 308-20	3.4	47
19	Wide-field three-photon excitation in biological samples. <i>Light: Science and Applications</i> , 2017 , 6, e16255	16.7	44
18	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> , 2014 , 7, 303-11	3.9	40
17	Flavylium Polymethine Fluorophores for Near- and Shortwave Infrared Imaging. <i>Angewandte Chemie</i> , 2017 , 129, 13306-13309	3.6	37
16	Selectins mediate small cell lung cancer systemic metastasis. <i>PLoS ONE</i> , 2014 , 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> , 2013 , 5, 108-14	3.7	32
14	Bright Chromenyl Polymethine Dyes Enable Fast, Four-Color Imaging with Shortwave Infrared Detection. <i>Journal of the American Chemical Society</i> , 2021 , 143, 6836-6846	16.4	30
13	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, 9989-94	11.5	24
12	Lysosomal lipoprotein processing in endothelial cells stimulates adipose tissue thermogenic adaptation. <i>Cell Metabolism</i> , 2021 , 33, 547-564.e7	24.6	21
11	Investigations on the usefulness of CEACAMs as potential imaging targets for molecular imaging purposes. <i>PLoS ONE</i> , 2011 , 6, e28030	3.7	17
10	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	19	14
9	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	3	11

8	Nanocrystals, a new tool to study lipoprotein metabolism and atherosclerosis. <i>Current Pharmaceutical Biotechnology</i> , 2012 , 13, 365-72	2.6	9
7	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> , 2007 , 67, 1147-53	4.2	8
6	Increasing the penetration depth of temporal focusing multiphoton microscopy for neurobiological applications. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 264001	3	7
5	Objective, comparative assessment of the penetration depth of temporal-focusing microscopy for imaging various organs. <i>Journal of Biomedical Optics</i> , 2015 , 20, 61107	3.5	7
4	Shortwave Infrared Fluorescence Imaging with the Clinically Approved Near-Infrared Dye Indocyanine Green		7
3	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> , 2015 , 10, 153-62	3.2	5
2	Initial findings of shortwave infrared otoscopy in a pediatric population. <i>International Journal of Pediatric Otorhinolaryngology</i> , 2018 , 114, 15-19	1.7	5
1	Targeted multicolor in vivo imaging over 1,000 nm enabled by nonamethine cyanines.. <i>Nature Methods</i> , 2022 ,	21.6	5