

Raimund J Ober

List of Publications by Year in Descending Order

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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.

72
papers

4,620
citations

33
h-index

67
g-index

79
ext. papers

5,352
ext. citations

7.5
avg, IF

5.42
L-index

#	Paper	IF	Citations
72	Selective Depletion of Antigen-Specific Antibodies for the Treatment of Demyelinating Disease. <i>Molecular Therapy</i> , 2021 , 29, 1312-1323	11.7	7
71	Effect of Pixelation on the Parameter Estimation of Single Molecule Trajectories. <i>IEEE Transactions on Computational Imaging</i> , 2021 , 7, 98-113	4.5	1
70	Selective depletion of radiolabeled HER2-specific antibody for contrast improvement during PET. <i>MAbs</i> , 2021 , 13, 1976705	6.6	0
69	Super-resolution fight club: assessment of 2D and 3D single-molecule localization microscopy software. <i>Nature Methods</i> , 2019 , 16, 387-395	21.6	123
68	Neonatal Fc receptor expression in macrophages is indispensable for IgG homeostasis. <i>MAbs</i> , 2019 , 11, 848-860	6.6	20
67	Engineering a HER2-specific antibody-drug conjugate to increase lysosomal delivery and therapeutic efficacy. <i>Nature Biotechnology</i> , 2019 , 37, 523-526	44.5	35
66	Resolution limit of image analysis algorithms. <i>Nature Communications</i> , 2019 , 10, 793	17.4	10
65	A two-stage method for automated detection of ring-like endosomes in fluorescent microscopy images. <i>PLoS ONE</i> , 2019 , 14, e0218931	3.7	4
64	Phagocytosis of antibody-opsonized tumor cells leads to the formation of a discrete vacuolar compartment in macrophages. <i>Traffic</i> , 2018 , 19, 273-284	5.7	8
63	Myelin oligodendrocyte glycoprotein-specific antibodies from multiple sclerosis patients exacerbate disease in a humanized mouse model. <i>Journal of Autoimmunity</i> , 2018 , 86, 104-115	15.5	15
62	Targeting Phosphatidylserine with Calcium-Dependent Protein-Drug Conjugates for the Treatment of Cancer. <i>Molecular Cancer Therapeutics</i> , 2018 , 17, 169-182	6.1	7
61	Targeting FcRn to Generate Antibody-Based Therapeutics. <i>Trends in Pharmacological Sciences</i> , 2018 , 39, 892-904	13.2	42
60	Neonatal Fc receptor antagonist efgartigimod safely and sustainably reduces IgGs in humans. <i>Journal of Clinical Investigation</i> , 2018 , 128, 4372-4386	15.9	86
59	Hepatic function of FcRn revealed: Implications for overcoming drug-mediated hepatotoxicity. <i>Hepatology</i> , 2017 , 66, 2083-2085	11.2	3
58	Shooting for the moon: using tissue-mimetic hydrogels to gain new insight on cancer biology and screen therapeutics. <i>MRS Communications</i> , 2017 , 7, 427-441	2.7	2
57	Engineered clearing agents for the selective depletion of antigen-specific antibodies. <i>Nature Communications</i> , 2017 , 8, 15314	17.4	16
56	A state space based approach to localizing single molecules from multi-emitter images. <i>Proceedings of SPIE</i> , 2017 , 10070,	1.7	1

55	Automatic Endosomal Structure Detection And Localization in Fluorescence Microscopic Images 2017 , 2017,		1
54	State space approach to single molecule localization in fluorescence microscopy. <i>Biomedical Optics Express</i> , 2017 , 8, 1332-1355	3.5	5
53	Loss of expression of the recycling receptor, FcRn, promotes tumor cell growth by increasing albumin consumption. <i>Oncotarget</i> , 2017 , 8, 3528-3541	3.3	29
52	Fisher information theory for parameter estimation in single molecule microscopy: tutorial. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2016 , 33, B36-57	1.8	66
51	Macrophage-Mediated Trogocytosis Leads to Death of Antibody-Opsonized Tumor Cells. <i>Molecular Cancer Therapeutics</i> , 2016 , 15, 1879-89	6.1	40
50	Antigen dynamics govern the induction of CD4(+) T cell tolerance during autoimmunity. <i>Journal of Autoimmunity</i> , 2016 , 72, 84-94	15.5	4
49	Targeting FcRn for the modulation of antibody dynamics. <i>Molecular Immunology</i> , 2015 , 67, 131-41	4.3	61
48	Commentary: "There's been a Flaw in Our Thinking". <i>Frontiers in Immunology</i> , 2015 , 6, 351	8.4	5
47	Fluorescent Microspheres as Point Sources: A Localization Study. <i>PLoS ONE</i> , 2015 , 10, e0134112	3.7	1
46	Limit of the Accuracy of Parameter Estimation for Two Molecules Moving in Close Proximity 2015 , 2015, 441-444		
45	Antibody targeting of HER2/HER3 signaling overcomes heregulin-induced resistance to PI3K inhibition in prostate cancer. <i>International Journal of Cancer</i> , 2015 , 137, 267-77	7.5	21
44	Use of Fc-Engineered Antibodies as Clearing Agents to Increase Contrast During PET. <i>Journal of Nuclear Medicine</i> , 2014 , 55, 1204-7	8.9	20
43	Targeting FcRn for therapy: from live cell imaging to in vivo studies in mice. <i>Immunology Letters</i> , 2014 , 160, 158-62	4.1	7
42	Engineering multivalent antibodies to target heregulin-induced HER3 signaling in breast cancer cells. <i>MAbs</i> , 2014 , 6, 340-53	6.6	22
41	The level of HER2 expression is a predictor of antibody-HER2 trafficking behavior in cancer cells. <i>MAbs</i> , 2014 , 6, 1211-9	6.6	29
40	Using multifocal plane microscopy to reveal novel trafficking processes in the recycling pathway. <i>Journal of Cell Science</i> , 2013 , 126, 1176-88	5.3	28
39	A stochastic analysis of distance estimation approaches in single molecule microscopy - quantifying the resolution limits of photon-limited imaging systems. <i>Multidimensional Systems and Signal Processing</i> , 2013 , 24, 503-542	1.8	14
38	Two approximations for the geometric model of signal amplification in an electron-multiplying charge-coupled device detector. <i>Proceedings of SPIE</i> , 2013 , 8589, 858905	1.7	4

37	Influence of Prior Knowledge on the Accuracy Limit of Parameter Estimation in Single-Molecule Fluorescence Microscopy 2013 , 2013, 1304-1307		2
36	Autoantibody depletion ameliorates disease in murine experimental autoimmune encephalomyelitis. <i>MAbs</i> , 2013 , 5, 655-9	6.6	38
35	The effect of pH dependence of antibody-antigen interactions on subcellular trafficking dynamics. <i>MAbs</i> , 2013 , 5, 851-9	6.6	38
34	The Diverse Roles of FcRn: Implications for Antibody Engineering 2012 , 207-222		
33	3D single molecule tracking with multifocal plane microscopy reveals rapid intercellular transferrin transport at epithelial cell barriers. <i>Biophysical Journal</i> , 2012 , 103, 1594-603	2.9	54
32	3D single molecule tracking and superresolution microscopy using multifocal plane microscopy 2012 , 2012, 914-915	1.5	2
31	Localization accuracy in single molecule microscopy using electron-multiplying charge-coupled device cameras. <i>Proceedings of SPIE</i> , 2012 , 8227,	1.7	4
30	Limit of the Accuracy of Parameter Estimation for Moving Single Molecules Imaged by Fluorescence Microscopy. <i>IEEE Transactions on Signal Processing</i> , 2011 , 59, 895-911	4.8	25
29	Neonatal Fc receptor blockade by Fc engineering ameliorates arthritis in a murine model. <i>Journal of Immunology</i> , 2011 , 187, 1015-22	5.3	72
28	Comparison of estimation algorithms in single-molecule localization. <i>Proceedings of SPIE</i> , 2010 , 7570, 757004	1.7	1
27	A software framework for the analysis of complex microscopy image data. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2010 , 14, 1075-87		15
26	Conditional deletion of the MHC class I-related receptor FcRn reveals the sites of IgG homeostasis in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 2788-93	11.5	156
25	Analyses of the recycling receptor, FcRn, in live cells reveal novel pathways for lysosomal delivery. <i>Traffic</i> , 2009 , 10, 600-14	5.7	65
24	Chapter 4: Multitasking by exploitation of intracellular transport functions the many faces of FcRn. <i>Advances in Immunology</i> , 2009 , 103, 77-115	5.6	122
23	Improved single particle localization accuracy with dual objective multifocal plane microscopy. <i>Optics Express</i> , 2009 , 17, 6881-98	3.3	48
22	Quantitative study of single molecule location estimation techniques. <i>Optics Express</i> , 2009 , 17, 23352-73	3.3	114
21	High accuracy 3D quantum dot tracking with multifocal plane microscopy for the study of fast intracellular dynamics in live cells. <i>Biophysical Journal</i> , 2008 , 95, 6025-43	2.9	207
20	Targeting the neonatal fc receptor for antigen delivery using engineered fc fragments. <i>Journal of Immunology</i> , 2008 , 181, 7550-61	5.3	76

19	Elucidation of intracellular recycling pathways leading to exocytosis of the Fc receptor, FcRn, by using multifocal plane microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 5889-94	11.5	130
18	Beyond Rayleigh's criterion: a resolution measure with application to single-molecule microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 4457-62	11.5	180
17	Divergent activities of an engineered antibody in murine and human systems have implications for therapeutic antibodies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 18709-14	11.5	96
16	A Stochastic Analysis of Performance Limits for Optical Microscopes. <i>Multidimensional Systems and Signal Processing</i> , 2006 , 17, 27-57	1.8	48
15	Conferring the binding properties of the mouse MHC class I-related receptor, FcRn, onto the human ortholog by sequential rounds of site-directed mutagenesis. <i>Journal of Molecular Biology</i> , 2005 , 345, 1071-81	6.5	58
14	Engineering the Fc region of immunoglobulin G to modulate in vivo antibody levels. <i>Nature Biotechnology</i> , 2005 , 23, 1283-8	44.5	265
13	State Space Realization of a Three-dimensional Image Set with Application to Noise Reduction of Fluorescent Microscopy Images of Cells. <i>Multidimensional Systems and Signal Processing</i> , 2005 , 16, 7-47	1.8	7
12	Exocytosis of IgG as mediated by the receptor, FcRn: an analysis at the single-molecule level. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 11076-81	11.5	191
11	Visualizing the site and dynamics of IgG salvage by the MHC class I-related receptor, FcRn. <i>Journal of Immunology</i> , 2004 , 172, 2021-9	5.3	226
10	Simultaneous imaging of different focal planes in fluorescence microscopy for the study of cellular dynamics in three dimensions. <i>IEEE Transactions on Nanobioscience</i> , 2004 , 3, 237-42	3.4	130
9	Localization accuracy in single-molecule microscopy. <i>Biophysical Journal</i> , 2004 , 86, 1185-200	2.9	435
8	Analysis of exponential data using a noniterative technique: application to surface plasmon experiments. <i>Analytical Biochemistry</i> , 2003 , 312, 57-65	3.1	13
7	Generation of mutated variants of the human form of the MHC class I-related receptor, FcRn, with increased affinity for mouse immunoglobulin G. <i>Journal of Molecular Biology</i> , 2003 , 332, 901-13	6.5	55
6	Evidence to support the cellular mechanism involved in serum IgG homeostasis in humans. <i>International Immunology</i> , 2003 , 15, 187-95	4.9	147
5	Achievable accuracy of parameter estimation for multidimensional NMR experiments. <i>Journal of Magnetic Resonance</i> , 2002 , 157, 1-16	3	11
4	Compensation for loss of ligand activity in surface plasmon resonance experiments. <i>Analytical Biochemistry</i> , 2002 , 306, 228-36	3.1	15
3	The MHC class I-related receptor, FcRn, plays an essential role in the maternofetal transfer of gamma-globulin in humans. <i>International Immunology</i> , 2001 , 13, 993-1002	4.9	246
2	Differences in promiscuity for antibody-FcRn interactions across species: implications for therapeutic antibodies. <i>International Immunology</i> , 2001 , 13, 1551-9	4.9	387

- 1 Increasing the serum persistence of an IgG fragment by random mutagenesis. *Nature Biotechnology*, 1997, 15, 637-40 44.5 202