

# Warren R Zipfel

## List of Publications by Citations

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101  
papers

14,457  
citations

43  
h-index

120  
g-index

125  
ext. papers

16,142  
ext. citations

7.3  
avg, IF

6.19  
L-index

#	Paper	IF	Citations
101	Nonlinear magic: multiphoton microscopy in the biosciences. <i>Nature Biotechnology</i> , <b>2003</b> , 21, 1369-77	44.5	2884
100	Water-soluble quantum dots for multiphoton fluorescence imaging in vivo. <i>Science</i> , <b>2003</b> , 300, 1434-6	33.3	2048
99	Live tissue intrinsic emission microscopy using multiphoton-excited native fluorescence and second harmonic generation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 7075-80	11.5	1318
98	Multiphoton fluorescence excitation: new spectral windows for biological nonlinear microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1996</b> , 93, 10763-8	11.5	964
97	Interpreting second-harmonic generation images of collagen I fibrils. <i>Biophysical Journal</i> , <b>2005</b> , 88, 1377-86	28.6	653
96	Neural activity triggers neuronal oxidative metabolism followed by astrocytic glycolysis. <i>Science</i> , <b>2004</b> , 305, 99-103	33.3	595
95	Exchange of protein molecules through connections between higher plant plastids. <i>Science</i> , <b>1997</b> , 276, 2039-42	33.3	495
94	Measuring serotonin distribution in live cells with three-photon excitation. <i>Science</i> , <b>1997</b> , 275, 530-2	33.3	380
93	Multiphoton microscopy in biological research. <i>Current Opinion in Chemical Biology</i> , <b>2001</b> , 5, 603-8	9.7	314
92	Simultaneous spatial and temporal focusing of femtosecond pulses. <i>Optics Express</i> , <b>2005</b> , 13, 2153-9	3.3	309
91	Regulation of calcium signals in the nucleus by a nucleoplasmic reticulum. <i>Nature Cell Biology</i> , <b>2003</b> , 5, 440-6	23.4	303
90	A microRNA miR-34a-regulated bimodal switch targets Notch in colon cancer stem cells. <i>Cell Stem Cell</i> , <b>2013</b> , 12, 602-15	18	291
89	The green fluorescent protein as a marker to visualize plant mitochondria in vivo. <i>Plant Journal</i> , <b>1997</b> , 11, 613-21	6.9	212
88	DNA fragment sizing by single molecule detection in submicrometer-sized closed fluidic channels. <i>Analytical Chemistry</i> , <b>2002</b> , 74, 1415-22	7.8	203
87	Translocation and Utilization of Fungal Storage Lipid in the Arbuscular Mycorrhizal Symbiosis. <i>Plant Physiology</i> , <b>2002</b> , 128, 108-124	6.6	199
86	Blinking and nonradiant dark fraction of water-soluble quantum dots in aqueous solution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 14284-9	11.5	191
85	Measurement of molecular diffusion in solution by multiphoton fluorescence photobleaching recovery. <i>Biophysical Journal</i> , <b>1999</b> , 77, 2837-49	2.9	185

84	BAC transgenic mice express enhanced green fluorescent protein in central and peripheral cholinergic neurons. <i>Physiological Genomics</i> , <b>2006</b> , 27, 391-7	3.6	132
83	Focal volume confinement by submicrometer-sized fluidic channels. <i>Analytical Chemistry</i> , <b>2004</b> , 76, 1618-23	7.8	127
82	Self-assembly of aligned tissue-engineered annulus fibrosus and intervertebral disc composite via collagen gel contraction. <i>Tissue Engineering - Part A</i> , <b>2010</b> , 16, 1339-48	3.9	126
81	Multiphoton excitation cross-sections of molecular fluorophores. <i>Bioimaging</i> , <b>1996</b> , 4, 198-207		118
80	Achieving uniform mixing in a microfluidic device: hydrodynamic focusing prior to mixing. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 4465-73	7.8	110
79	Optimization of pairings and detection conditions for measurement of FRET between cyan and yellow fluorescent proteins. <i>Microscopy and Microanalysis</i> , <b>2006</b> , 12, 238-54	0.5	107
78	Recruitment timing and dynamics of transcription factors at the Hsp70 loci in living cells. <i>Molecular Cell</i> , <b>2010</b> , 40, 965-75	17.6	99
77	Direct three-dimensional microfabrication of hydrogels via two-photon lithography in aqueous solution. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 2003-2006	9.6	96
76	Photoactivated in Vitro Anticancer Activity of Rhenium(I) Tricarbonyl Complexes Bearing Water-Soluble Phosphines. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 1311-1331	5.1	94
75	Conformational changes of calmodulin upon Ca <sup>2+</sup> binding studied with a microfluidic mixer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 542-7	11.5	93
74	Core-shell silica nanoparticles as fluorescent labels for nanomedicine. <i>Journal of Biomedical Optics</i> , <b>2007</b> , 12, 064007	3.5	92
73	Multiphoton imaging can be used for microscopic examination of intact human gastrointestinal mucosa ex vivo. <i>Clinical Gastroenterology and Hepatology</i> , <b>2008</b> , 6, 95-101	6.9	91
72	Liver fatty acid-binding protein gene ablation inhibits branched-chain fatty acid metabolism in cultured primary hepatocytes. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 30954-65	5.4	79
71	Strategies for high-resolution imaging of epithelial ovarian cancer by laparoscopic nonlinear microscopy. <i>Translational Oncology</i> , <b>2010</b> , 3, 181-94	4.9	72
70	Mucosal mast cell secretion processes imaged using three-photon microscopy of 5-hydroxytryptamine autofluorescence. <i>Biophysical Journal</i> , <b>1999</b> , 76, 1835-46	2.9	67
69	Structural basis for conformational switching and GTP loading of the large G protein atlastin. <i>EMBO Journal</i> , <b>2013</b> , 32, 369-84	13	65
68	Tracking metabolism and imaging transport in arbuscular mycorrhizal fungi. Metabolism and transport in AM fungi. <i>Plant and Soil</i> , <b>2002</b> , 244, 189-197	4.2	63
67	Diffusion of nerve growth factor in rat striatum as determined by multiphoton microscopy. <i>Biophysical Journal</i> , <b>2003</b> , 85, 581-8	2.9	63

66	Highly localized Ca(2+) accumulation revealed by multiphoton microscopy in an identified motoneuron and its modulation by dopamine. <i>Journal of Neuroscience</i> , <b>2000</b> , 20, 2523-33	6.6	59
65	The Basis for Different Sensitivities of Photosynthesis to SO <sub>2</sub> in Two Cultivars of Pea. <i>Journal of Experimental Botany</i> , <b>1987</b> , 38, 99-108	7	54
64	Translocation and utilization of fungal storage lipid in the arbuscular mycorrhizal symbiosis. <i>Plant Physiology</i> , <b>2002</b> , 128, 108-24	6.6	49
63	Phosphorescent nanoparticles for quantitative measurements of oxygen profiles in vitro and in vivo. <i>Biomaterials</i> , <b>2012</b> , 33, 2710-22	15.6	48
62	Multiphoton excitation cross-sections of molecular fluorophores. <i>Bioimaging</i> , <b>1996</b> , 4, 198-207		47
61	Multiphoton microscopy for structure identification in human prostate and periprostatic tissue: implications in prostate cancer surgery. <i>BJU International</i> , <b>2011</b> , 108, 1421-9	5.6	46
60	Endothelial cells promote 3D invasion of GBM by IL-8-dependent induction of cancer stem cell properties. <i>Scientific Reports</i> , <b>2019</b> , 9, 9069	4.9	45
59	Multiphoton microscopy in the evaluation of human bladder biopsies. <i>Archives of Pathology and Laboratory Medicine</i> , <b>2012</b> , 136, 517-26	5	44
58	Spatial profiles of store-dependent calcium release in motoneurons of the nucleus hypoglossus from newborn mouse. <i>Journal of Physiology</i> , <b>2003</b> , 547, 775-87	3.9	40
57	Kinetics of promoter Pol II on Hsp70 reveal stable pausing and key insights into its regulation. <i>Genes and Development</i> , <b>2014</b> , 28, 14-9	12.6	38
56	Feasibility of using multiphoton excited tissue autofluorescence for in vivo human histopathology. <i>Biomedical Optics Express</i> , <b>2010</b> , 1, 1320-1330	3.5	38
55	RNA aptamers that functionally interact with green fluorescent protein and its derivatives. <i>Nucleic Acids Research</i> , <b>2012</b> , 40, e39	20.1	38
54	Highly multiplexed spatial mapping of microbial communities. <i>Nature</i> , <b>2020</b> , 588, 676-681	50.4	36
53	Non-ionic photo-acid generators for applications in two-photon lithography. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 505-513		34
52	Solute transport in growth plate cartilage: in vitro and in vivo. <i>Biophysical Journal</i> , <b>2007</b> , 93, 1039-50	2.9	34
51	Chondrocyte calcium signaling in response to fluid flow is regulated by matrix adhesion in 3-D alginate scaffolds. <i>Archives of Biochemistry and Biophysics</i> , <b>2011</b> , 505, 112-7	4.1	33
50	Translocation and Utilization of Fungal Storage Lipid in the Arbuscular Mycorrhizal Symbiosis. <i>Plant Physiology</i> , <b>2002</b> , 128, 108-124	6.6	32
49	Kinetic and mechanical analysis of live tube morphogenesis. <i>Developmental Dynamics</i> , <b>2008</b> , 237, 2874-88.9		28

48	Ca <sup>2+</sup> -induced Ca <sup>2+</sup> release through localized Ca <sup>2+</sup> uncaging in smooth muscle. <i>Journal of General Physiology</i> , <b>2006</b> , 127, 225-35	3.4	28
47	Multiphoton microscopy guides neurotrophin modification with poly(ethylene glycol) to enhance interstitial diffusion. <i>Nature Materials</i> , <b>2004</b> , 3, 489-94	27	27
46	Collagen Fiber Orientation Regulates 3D Vascular Network Formation and Alignment. <i>ACS Biomaterials Science and Engineering</i> , <b>2018</b> , 4, 2967-2976	5.5	26
45	Layer 6 cortical neurons require Reelin-Dab1 signaling for cellular orientation, Golgi deployment, and directed neurite growth into the marginal zone. <i>Neural Development</i> , <b>2012</b> , 7, 25	3.9	25
44	Reelin Prevents Apical Neurite Retraction during Terminal Translocation and Dendrite Initiation. <i>Journal of Neuroscience</i> , <b>2015</b> , 35, 10659-74	6.6	24
43	Green to red photoconversion of GFP for protein tracking in vivo. <i>Scientific Reports</i> , <b>2015</b> , 5, 11771	4.9	24
42	In vivo delivery of fluoresceinated dextrans to the murine growth plate: imaging of three vascular routes by multiphoton microscopy. <i>The Anatomical Record Part A: Discoveries in Molecular, Cellular, and Evolutionary Biology</i> , <b>2006</b> , 288, 91-103		24
41	Comparison of objective lenses for multiphoton microscopy in turbid samples. <i>Biomedical Optics Express</i> , <b>2015</b> , 6, 3113-27	3.5	21
40	Quenching of chlorophyll excited states in photosystem I by quinones. <i>Journal of Luminescence</i> , <b>1992</b> , 51, 79-89	3.8	21
39	In vivo imaging reveals an essential role of vasoconstriction in rupture of the ovarian follicle at ovulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 2294-9	11.5	20
38	Quantifying translational mobility in neurons: comparison between current optical techniques. <i>Journal of Neuroscience</i> , <b>2010</b> , 30, 16409-16	6.6	17
37	Toxicity and biomedical imaging of layered nanohybrids in the mouse. <i>Toxicologic Pathology</i> , <b>2007</b> , 35, 806-12	2.1	17
36	Calcium signaling in response to fluid flow by chondrocytes in 3D alginate culture. <i>Journal of Orthopaedic Research</i> , <b>2012</b> , 30, 793-9	3.8	16
35	Anisometric Colloidal Fullerene Rod and Platelet Solvates with Enhanced Photoluminescence. <i>Advanced Optical Materials</i> , <b>2014</b> , 2, 1024-1030	8.1	14
34	Heterogeneous effects of dopamine on highly localized, voltage-induced Ca <sup>2+</sup> accumulation in identified motoneurons. <i>Journal of Neurophysiology</i> , <b>2007</b> , 98, 2910-7	3.2	14
33	Potential solutions for confocal imaging of living animals. <i>BioTechniques</i> , <b>2007</b> , 43, 14-9	2.5	14
32	Multiphoton excitation of fluorescent probes. <i>Cold Spring Harbor Protocols</i> , <b>2015</b> , 2015, 250-8	1.2	13
31	Regulation of the type III InsP(3) receptor by InsP(3) and calcium. <i>Biochemical and Biophysical Research Communications</i> , <b>2002</b> , 294, 719-25	3.4	12

30	Facilitated recruitment of mesenchymal stromal cells by bone marrow concentrate and platelet rich plasma. <i>PLoS ONE</i> , <b>2018</b> , 13, e0194567	3.7	11
29	A visible-light-excited fluorescence method for imaging protein crystals without added dyes. <i>Journal of Applied Crystallography</i> , <b>2016</b> , 49, 234-240	3.8	10
28	Use of multiphoton imaging for studying cell migration in the mouse. <i>Methods in Molecular Biology</i> , <b>2005</b> , 294, 335-45	1.4	10
27	Oxyaapa: A Picolinate-Based Ligand with Five Oxygen Donors that Strongly Chelates Lanthanides. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 5116-5132	5.1	9
26	Molecular mechanism of a green-shifted, pH-dependent red fluorescent protein mKate variant. <i>PLoS ONE</i> , <b>2011</b> , 6, e23513	3.7	8
25	A multiphoton objective design with incorporated beam splitter for enhanced fluorescence collection. <i>Optics Express</i> , <b>2010</b> , 18, 5390-8	3.3	7
24	Cell-Free Synthesis of a Transmembrane Mechanosensitive Channel Protein into a Hybrid-Supported Lipid Bilayer.. <i>ACS Applied Bio Materials</i> , <b>2021</b> , 4, 3101-3112	4.1	7
23	Enhanced Oxygen Solubility in Metastable Water under Tension. <i>Langmuir</i> , <b>2018</b> , 34, 12017-12024	4	7
22	In vivo Diffusion Measurements Using Multiphoton Excitation Fluorescence Photobleaching Recovery and Fluorescence Correlation Spectroscopy <b>2001</b> , 216-235		7
21	Calculation of absolute photosystem I absorption cross-sections from P700 photo-oxidation kinetics. <i>Photosynthesis Research</i> , <b>1991</b> , 29, 23-35	3.7	7
20	High-speed device synchronization in optical microscopy with an open-source hardware control platform. <i>Scientific Reports</i> , <b>2019</b> , 9, 12188	4.9	5
19	A minimally disruptive method for measuring water potential in planta using hydrogel nanoreporters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	4
18	Tracking metabolism and imaging transport in arbuscular mycorrhizal fungi <b>2002</b> , 189-197		3
17	Integrated sample-handling and mounting system for fixed-target serial synchrotron crystallography. <i>Acta Crystallographica Section D: Structural Biology</i> , <b>2021</b> , 77, 628-644	5.5	3
16	Multiphoton microscopy as a tool to study ovarian vasculature in vivo. <i>Intravital</i> , <b>2013</b> , 2, e24334		2
15	A Scheme for Increasing the Collection Efficiency of Multiphoton Microscopy. <i>Biophysical Journal</i> , <b>2009</b> , 96, 639a	2.9	2
14	Chronic imaging of amyloid plaques in the live mouse brain using multiphoton microscopy <b>2001</b> ,		2
13	Highly Multiplexed Spatial Mapping of Microbial Communities		2

12	Stoichiometric analysis of protein complexes by cell fusion and single molecule imaging. <i>Scientific Reports</i> , <b>2020</b> , 10, 14866	4.9	2
11	Litmus-Body: A Molecularly Targeted Sensor for Cell-Surface pH Measurements. <i>ACS Sensors</i> , <b>2020</b> , 5, 1555-1566	9.2	1
10	In vivo multiphoton microscopy of deep tissue with gradient index lenses <b>2004</b> ,		1
9	Dark fraction and blinking of water-soluble quantum dots in solution <b>2005</b> ,		1
8	Effects of sulfite on phosphoenolpyruvate carboxylase and nicotinamide adenine dinucleotide phosphate-dependent malate dehydrogenase in epidermal peels in two cultivars of pea. <i>Physiologia Plantarum</i> , <b>1990</b> , 79, 491-496	4.6	1
7	Highly Potent Photoinactivation of Bacteria Using a Water-Soluble, Cell-Permeable, DNA-Binding Photosensitizer. <i>ACS Infectious Diseases</i> , <b>2021</b> , 7, 3052-3061	5.5	1
6	Effects of sulfite on phosphoenolpyruvate carboxylase and nicotinamide adenine dinucleotide phosphate-dependent malate dehydrogenase in epidermal peels in two cultivars of pea. <i>Physiologia Plantarum</i> , <b>1990</b> , 79, 491-496	4.6	0
5	Application of Multiphoton Imaging to Study of the Vasculature.. <i>Microscopy and Microanalysis</i> , <b>1997</b> , 3, 335-336	0.5	
4	A new-age hooke book. <i>Nature Cell Biology</i> , <b>2000</b> , 2, E222	23.4	
3	Azimuthal Beam Scanning Microscope Design and Implementation for Axial Localization with Scanning Angle Interference Microscopy. <i>Methods in Molecular Biology</i> , <b>2022</b> , 2393, 127-152	1.4	
2	Multiphoton microscopy of intrinsic tissue emissions for cancer research. <i>FASEB Journal</i> , <b>2007</b> , 21, A601	0.9	
1	Diurnal Changes in Electron Transport Capacity in Pea Thylakoids <b>1987</b> , 609-612		