## Warren R Zipfel

List of Publications by Year in descending order

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57631 39575 17,129 119 44 94 citations h-index g-index papers 125 125 125 18712 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Nonlinear magic: multiphoton microscopy in the biosciences. Nature Biotechnology, 2003, 21, 1369-1377.	9.4	3,524
2	Water-Soluble Quantum Dots for Multiphoton Fluorescence Imaging in Vivo. Science, 2003, 300, 1434-1436.	6.0	2,218
3	Live tissue intrinsic emission microscopy using multiphoton-excited native fluorescence and second harmonic generation. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 7075-7080.	3.3	1,630
4	Multiphoton fluorescence excitation: new spectral windows for biological nonlinear microscopy Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 10763-10768.	3.3	1,116
5	Interpreting Second-Harmonic Generation Images of Collagen I Fibrils. Biophysical Journal, 2005, 88, 1377-1386.	0.2	799
6	Neural Activity Triggers Neuronal Oxidative Metabolism Followed by Astrocytic Glycolysis. Science, 2004, 305, 99-103.	6.0	666
7	Exchange of Protein Molecules Through Connections Between Higher Plant Plastids. Science, 1997, 276, 2039-2042.	6.0	554
8	Simultaneous spatial and temporal focusing of femtosecond pulses. Optics Express, 2005, 13, 2153.	1.7	433
9	Measuring Serotonin Distribution in Live Cells with Three-Photon Excitation. Science, 1997, 275, 530-532.	6.0	431
10	Multiphoton microscopy in biological research. Current Opinion in Chemical Biology, 2001, 5, 603-608.	2.8	364
11	Regulation of calcium signals in the nucleus by a nucleoplasmic reticulum. Nature Cell Biology, 2003, 5, 440-446.	4.6	343
12	A microRNA miR-34a-Regulated Bimodal Switch Targets Notch in Colon Cancer Stem Cells. Cell Stem Cell, 2013, 12, 602-615.	5.2	325
13	The green fluorescent protein as a marker to visualize plant mitochondria in vivo. Plant Journal, 1997, 11, 613-621.	2.8	245
14	Translocation and Utilization of Fungal Storage Lipid in the Arbuscular Mycorrhizal Symbiosis. Plant Physiology, 2002, 128, 108-124.	2.3	228
15	DNA Fragment Sizing by Single Molecule Detection in Submicrometer-Sized Closed Fluidic Channels. Analytical Chemistry, 2002, 74, 1415-1422.	3.2	226
16	Blinking and nonradiant dark fraction of water-soluble quantum dots in aqueous solution. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 14284-14289.	3.3	211
17	Measurement of Molecular Diffusion in Solution by Multiphoton Fluorescence Photobleaching Recovery. Biophysical Journal, 1999, 77, 2837-2849.	0.2	201
18	BAC transgenic mice express enhanced green fluorescent protein in central and peripheral cholinergic neurons. Physiological Genomics, 2006, 27, 391-397.	1.0	160

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19	Self-Assembly of Aligned Tissue-Engineered Annulus Fibrosus and Intervertebral Disc Composite Via Collagen Gel Contraction. Tissue Engineering - Part A, 2010, 16, 1339-1348.	1.6	147
20	Focal Volume Confinement by Submicrometer-Sized Fluidic Channels. Analytical Chemistry, 2004, 76, 1618-1626.	3.2	141
21	Multiphoton excitation crossâ€sections of molecular fluorophores. Bioimaging, 1996, 4, 198-207.	1.8	128
22	Recruitment Timing and Dynamics of Transcription Factors at the Hsp70 Loci in Living Cells. Molecular Cell, 2010, 40, 965-975.	4.5	125
23	Optimization of Pairings and Detection Conditions for Measurement of FRET between Cyan and Yellow Fluorescent Proteins. Microscopy and Microanalysis, 2006, 12, 238-254.	0.2	124
24	Achieving Uniform Mixing in a Microfluidic Device:Â Hydrodynamic Focusing Prior to Mixing. Analytical Chemistry, 2006, 78, 4465-4473.	3.2	123
25	Photoactivated in Vitro Anticancer Activity of Rhenium(I) Tricarbonyl Complexes Bearing Water-Soluble Phosphines. Inorganic Chemistry, 2018, 57, 1311-1331.	1.9	121
26	Highly multiplexed spatial mapping of microbial communities. Nature, 2020, 588, 676-681.	13.7	120
27	Conformational changes of calmodulin upon Ca <sup>2+</sup> binding studied with a microfluidic mixer. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 542-547.	3.3	113
28	Multiphoton Imaging Can Be Used for Microscopic Examination of Intact Human Gastrointestinal Mucosa Ex Vivo. Clinical Gastroenterology and Hepatology, 2008, 6, 95-101.	2.4	110
29	Core-shell silica nanoparticles as fluorescent labels for nanomedicine. Journal of Biomedical Optics, 2007, 12, 1.	1.4	109
30	Direct Three-Dimensional Microfabrication of Hydrogels via Two-Photon Lithography in Aqueous Solution. Chemistry of Materials, 2009, 21, 2003-2006.	3.2	104
31	Liver Fatty Acid-binding Protein Gene Ablation Inhibits Branched-chain Fatty Acid Metabolism in Cultured Primary Hepatocytes. Journal of Biological Chemistry, 2004, 279, 30954-30965.	1.6	91
32	Strategies for High Resolution Imaging of Epithelial Ovarian Cancer by Laparoscopic Nonlinear Microscopy. Translational Oncology, 2010, 3, 181-194.	1.7	86
33	Structural basis for conformational switching and GTP loading of the large G protein atlastin. EMBO Journal, 2013, 32, 369-384.	3.5	85
34	Endothelial cells promote 3D invasion of GBM by IL-8-dependent induction of cancer stem cell properties. Scientific Reports, 2019, 9, 9069.	1.6	76
35	Mucosal Mast Cell Secretion Processes Imaged Using Three-Photon Microscopy of 5-Hydroxytryptamine Autofluorescence. Biophysical Journal, 1999, 76, 1835-1846.	0.2	75
36	Title is missing!. Plant and Soil, 2002, 244, 189-197.	1.8	68

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37	Diffusion of Nerve Growth Factor in Rat Striatum as Determined by Multiphoton Microscopy. Biophysical Journal, 2003, 85, 581-588.	0.2	68
38	Highly Localized Ca2+Accumulation Revealed by Multiphoton Microscopy in an Identified Motoneuron and Its Modulation by Dopamine. Journal of Neuroscience, 2000, 20, 2523-2533.	1.7	65
39	Multiphoton excitation cross-sections of molecular fluorophores. Bioimaging, 1996, 4, 198-207.	1.8	62
40	Multiphoton microscopy for structure identification in human prostate and periprostatic tissue: implications in prostate cancer surgery. BJU International, 2011, 108, 1421-1429.	1.3	59
41	Translocation and utilization of fungal storage lipid in the arbuscular mycorrhizal symbiosis. Plant Physiology, 2002, 128, 108-24.	2.3	58
42	The Basis for Different Sensitivities of Photosynthesis to SO2in Two Cultivars of Pea. Journal of Experimental Botany, 1987, 38, 99-108.	2.4	55
43	Multiphoton Microscopy in the Evaluation of Human Bladder Biopsies. Archives of Pathology and Laboratory Medicine, 2012, 136, 517-526.	1.2	55
44	Phosphorescent nanoparticles for quantitative measurements of oxygen profiles inÂvitro and inÂvivo. Biomaterials, 2012, 33, 2710-2722.	5.7	54
45	Collagen Fiber Orientation Regulates 3D Vascular Network Formation and Alignment. ACS Biomaterials Science and Engineering, 2018, 4, 2967-2976.	2.6	54
46	RNA aptamers that functionally interact with green fluorescent protein and its derivatives. Nucleic Acids Research, 2012, 40, e39-e39.	6.5	47
47	Kinetics of promoter Pol II on <i>Hsp70</i> reveal stable pausing and key insights into its regulation. Genes and Development, 2014, 28, 14-19.	2.7	46
48	Feasibility of using multiphoton excited tissue autofluorescence for in vivo human histopathology. Biomedical Optics Express, 2010, 1, 1320.	1.5	43
49	In vivo imaging reveals an essential role of vasoconstriction in rupture of the ovarian follicle at ovulation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2294-2299.	3.3	41
50	Non-ionic photo-acid generators for applications in two-photon lithography. Journal of Materials Chemistry, 2009, 19, 505-513.	6.7	40
51	Spatial profiles of store-dependent calcium release in motoneurones of the nucleus hypoglossus from newborn mouse. Journal of Physiology, 2003, 547, 775-787.	1.3	40
52	Solute Transport in Growth Plate Cartilage: In Vitro and In Vivo. Biophysical Journal, 2007, 93, 1039-1050.	0.2	39
53	Translocation and Utilization of Fungal Storage Lipid in the Arbuscular Mycorrhizal Symbiosis. Plant Physiology, 2002, 128, 108-124.	2.3	38
54	Chondrocyte calcium signaling in response to fluid flow is regulated by matrix adhesion in 3-D alginate scaffolds. Archives of Biochemistry and Biophysics, 2011, 505, 112-117.	1.4	38

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55	Kinetic and mechanical analysis of live tube morphogenesis. Developmental Dynamics, 2008, 237, 2874-2888.	0.8	37
56	Reelin Prevents Apical Neurite Retraction during Terminal Translocation and Dendrite Initiation. Journal of Neuroscience, 2015, 35, 10659-10674.	1.7	32
57	Layer 6 cortical neurons require Reelin-Dab1 signaling for cellular orientation, Golgi deployment, and directed neurite growth into the marginal zone. Neural Development, 2012, 7, 25.	1.1	31
58	Multiphoton microscopy guides neurotrophin modification with poly(ethylene glycol) to enhance interstitial diffusion. Nature Materials, 2004, 3, 489-494.	13.3	30
59	Ca2+-Induced Ca2+ Release through Localized Ca2+ Uncaging in Smooth Muscle. Journal of General Physiology, 2006, 127, 225-235.	0.9	29
60	Green to red photoconversion of GFP for protein tracking in vivo. Scientific Reports, 2015, 5, 11771.	1.6	28
61	Comparison of objective lenses for multiphoton microscopy in turbid samples. Biomedical Optics Express, 2015, 6, 3113.	1.5	26
62	In vivo delivery of fluoresceinated dextrans to the murine growth plate: Imaging of three vascular routes by multiphoton microscopy. The Anatomical Record Part A: Discoveries in Molecular, Cellular, and Evolutionary Biology, 2006, 288A, 91-103.	2.0	24
63	Quenching of chlorophyll excited states in photosystem I by quinones. Journal of Luminescence, 1992, 51, 79-89.	1.5	21
64	Toxicity and Biomedical Imaging of Layered Nanohybrids in the Mouse. Toxicologic Pathology, 2007, 35, 804-810.	0.9	19
65	Calcium signaling in response to fluid flow by chondrocytes in 3D alginate culture. Journal of Orthopaedic Research, 2012, 30, 793-799.	1.2	19
66	A minimally disruptive method for measuring water potential in planta using hydrogel nanoreporters. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	19
67	Quantifying Translational Mobility in Neurons: Comparison between Current Optical Techniques. Journal of Neuroscience, 2010, 30, 16409-16416.	1.7	18
68	Facilitated recruitment of mesenchymal stromal cells by bone marrow concentrate and platelet rich plasma. PLoS ONE, 2018, 13, e0194567.	1.1	18
69	Heterogeneous Effects of Dopamine on Highly Localized, Voltage-Induced Ca <sup>2+</sup> Accumulation in Identified Motoneurons. Journal of Neurophysiology, 2007, 98, 2910-2917.	0.9	16
70	Potential solutions for confocal imaging of living animals. BioTechniques, 2007, 43, S14-S19.	0.8	16
71	Cell-Free Synthesis of a Transmembrane Mechanosensitive Channel Protein into a Hybrid-Supported Lipid Bilayer. ACS Applied Bio Materials, 2021, 4, 3101-3112.	2.3	16
72	Multiphoton Excitation of Fluorescent Probes. Cold Spring Harbor Protocols, 2015, 2015, pdb.top086116.	0.2	15

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73	Anisometric Colloidal Fullerene Rod and Platelet Solvates with Enhanced Photoluminescence. Advanced Optical Materials, 2014, 2, 1024-1030.	3.6	14
74	Oxyaapa: A Picolinate-Based Ligand with Five Oxygen Donors that Strongly Chelates Lanthanides. Inorganic Chemistry, 2020, 59, 5116-5132.	1.9	14
75	Regulation of the type III InsP3 receptor by InsP3 and calcium. Biochemical and Biophysical Research Communications, 2002, 294, 719-725.	1.0	13
76	High-speed device synchronization in optical microscopy with an open-source hardware control platform. Scientific Reports, 2019, 9, 12188.	1.6	13
77	Two-Photon Photodynamic Therapy Targeting Cancers with Low Carboxylesterase 2 Activity Guided by Ratiometric Fluorescence. Journal of Medicinal Chemistry, 2022, 65, 8855-8868.	2.9	13
78	Integrated sample-handling and mounting system for fixed-target serial synchrotron crystallography. Acta Crystallographica Section D: Structural Biology, 2021, 77, 628-644.	1.1	12
79	Use of Multiphoton Imaging for Studying Cell Migration in the Mouse. , 2005, 294, 335-346.		11
80	Calculation of absolute photosystem I absorption cross-sections from P700 photo-oxidation kinetics. Photosynthesis Research, 1991, 29, 23-35.	1.6	11
81	A visible-light-excited fluorescence method for imaging protein crystals without added dyes. Journal of Applied Crystallography, 2016, 49, 234-240.	1.9	10
82	Tracking metabolism and imaging transport in arbuscular mycorrhizal fungi., 2002,, 189-197.		10
83	A multiphoton objective design with incorporated beam splitter for enhanced fluorescence collection. Optics Express, 2010, 18, 5390.	1.7	9
84	Molecular Mechanism of a Green-Shifted, pH-Dependent Red Fluorescent Protein mKate Variant. PLoS ONE, 2011, 6, e23513.	1.1	9
85	Enhanced Oxygen Solubility in Metastable Water under Tension. Langmuir, 2018, 34, 12017-12024.	1.6	9
86	In vivo Diffusion Measurements Using Multiphoton Excitation Fluorescence Photobleaching Recovery and Fluorescence Correlation Spectroscopy., 2001,, 216-235.		9
87	Stoichiometric analysis of protein complexes by cell fusion and single molecule imaging. Scientific Reports, 2020, 10, 14866.	1.6	7
88	Azimuthal Beam Scanning Microscope Design and Implementation for Axial Localization with Scanning Angle Interference Microscopy. Methods in Molecular Biology, 2022, 2393, 127-152.	0.4	4
89	In vivo multiphoton microscopy of deep tissue with gradient index lenses. , 2004, , .		3
90	Effects of sulfite on phosphoenolpyruvate carboxylase and nicotinamide adenine dinucleotide phosphate-dependent malate dehydrogenase in epidermal peels in two cultivars of pea. Physiologia Plantarum, 1990, 79, 491-496.	2.6	2

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91	Chronic imaging of amyloid plaques in the live mouse brain using multiphoton microscopy. , 2001, , .		2
92	A Scheme for Increasing the Collection Efficiency of Multiphoton Microscopy. Biophysical Journal, 2009, 96, 639a.	0.2	2
93	Multiphoton microscopy as a tool to study ovarian vasculature in vivo. Intravital, 2013, 2, e24334.	2.0	2
94	Litmus-Body: A Molecularly Targeted Sensor for Cell-Surface pH Measurements. ACS Sensors, 2020, 5, 1555-1566.	4.0	2
95	Highly Potent Photoinactivation of Bacteria Using a Water-Soluble, Cell-Permeable, DNA-Binding Photosensitizer. ACS Infectious Diseases, 2021, 7, 3052-3061.	1.8	2
96	Effects of sulfite on phosphoenolpyruvate carboxylase and nicotinamide adenine dinucleotide phosphate-dependent malate dehydrogenase in epidermal peels in two cultivars of pea. Physiologia Plantarum, 1990, 79, 491-496.	2.6	1
97	Dark fraction and blinking of water-soluble quantum dots in solution. , 2005, , .		1
98	Assessing the Mutagenicity Potential of Multiphoton Excitation during Imaging of Intrinsic Fluorescence from Cells and Tissues. Biophysical Journal, 2010, 98, 576a.	0.2	1
99	A Comparison of Objective Lenses for Multiphoton Microscopy: Improved Epifluorescence Collection from Turbid Samples. Biophysical Journal, 2010, 98, 178a.	0.2	1
100	Memorial Viewpoint for Watt W. Webb: An Experimentalist's Experimentalist. Journal of Physical Chemistry B, 2021, 125, 2793-2795.	1.2	1
101	Oxygen-Sensing Microfluidic Scaffolds. , 2009, , .		1
102	Application of Multiphoton Imaging to Study of the Vasculature Microscopy and Microanalysis, 1997, 3, 335-336.	0.2	0
103	A new-age Hooke book. Nature Cell Biology, 2000, 2, E222-E222.	4.6	0
104	Probing the effect of Heat Shock Protein 70 on the aggregation of α-Synuclein. Biophysical Journal, 2009, 96, 92a.	0.2	0
105	Monitoring the Granulomal Micro-environment in a Monkey Model of Tuberculosis Using a Novel Fluorescence Bronchoscope. Biophysical Journal, 2009, 96, 297a.	0.2	O
106	Compensation Of Tissue-induced PSF Aberrations Using Adaptive Phase Modulation. Biophysical Journal, 2009, 96, 375a.	0.2	0
107	1345 AUTOFLUORESCENCE MICROSCOPY OF PERIPROSTATIC LYMPHATIC TISSUE AND CORRELATION WITH CONVENTIONAL HISTOPATHOLOGY IMAGING. Journal of Urology, 2010, 183, .	0.2	O
108	2143 REAL TIME DELINEATION PROSTATIC ARCHITECTURE USING ROBO-MICROSCOPY PROJECT TWO PHOTON LASER EXCITATION IMAGING IN VISUALIZATION OF HUMAN PROSTATIC TISSUE. Journal of Urology, 2010, 183, .	0.2	0

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109	1444 PERI PROSTATIC NERVE MAPPING: UTILITY OF REAL TIME 780-NM LASER EXCITATION IMAGING IN VISUALIZATION OF HUMAN CAVERNOUS NERVES. Journal of Urology, 2010, 183, .	0.2	O
110	Adaptive Phase Modulation for Multiphoton Microscopy. Biophysical Journal, 2010, 98, 215a.	0.2	O
111	Analysis of Spot Detection and Localization Algorithms for PALM and STORM. Biophysical Journal, 2011, 100, 141a.	0.2	O
112	Sub-Millisecond RNA Collapse Observed in a Microfluidic Mixer. Biophysical Journal, 2012, 102, 645a.	0.2	0
113	Accurate Quantification Methods for Single Molecule Localization. Biophysical Journal, 2012, 102, 721a.	0.2	O
114	Accurate EMCCD Photoelectron Calibration for Single Molecule Imaging Techniques. Biophysical Journal, 2013, 104, 666a.	0.2	0
115	Feasibility of using Nonlinear Excitation in Human Clinical Imaging Applications. , 2013, , .		O
116	Second harmonic microscopy of collagen. , 2003, , .		0
117	On the Versatility of Nonlinear Microscopy. , 2006, , .		O
118	Multiphoton microscopy of intrinsic tissue emissions for cancer research. FASEB Journal, 2007, 21, A601.	0.2	0
119	Diurnal Changes in Electron Transport Capacity in Pea Thylakoids. , 1987, , 609-612.		O