

# Christian Soeller

## 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.

81

papers

3,507

citations

33

h-index

58

g-index

95

ext. papers

4,041

ext. citations

5.9

avg, IF

5.23

L-index

#	Paper	IF	Citations
81	Nanoscale Organisation of Ryanodine Receptors and Junctophilin-2 in the Failing Human Heart. <i>Frontiers in Physiology</i> , <b>2021</b> , 12, 724372	4.6	4
80	PYMEVisualize: an open-source tool for exploring 3D super-resolution data. <i>Nature Methods</i> , <b>2021</b> , 18, 582-584	21.6	2
79	Human Atrial Fibrillation Is Not Associated With Remodeling of Ryanodine Receptor Clusters. <i>Frontiers in Cell and Developmental Biology</i> , <b>2021</b> , 9, 633704	5.7	3
78	Repeat DNA-PAINT suppresses background and non-specific signals in optical nanoscopy. <i>Nature Communications</i> , <b>2021</b> , 12, 501	17.4	8
77	Super-resolution Microscopy Illuminates Cardiac Structure, Function and Pathology at the Nanoscale. <i>Microscopy and Microanalysis</i> , <b>2020</b> , 26, 834-834	0.5	
76	Detecting Nanoscale Distribution of Protein Pairs by Proximity-Dependent Super-resolution Microscopy. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 12069-12078	16.4	6
75	The unconventional biogenesis of Kv7.1-KCNE1 complexes. <i>Science Advances</i> , <b>2020</b> , 6, eaay4472	14.3	7
74	Cleavable Affinity Purification (Cl-AP): A One-step Procedure to Affinity Purify Protein Complexes. <i>Bio-protocol</i> , <b>2020</b> , 10, e3821	0.9	
73	In vitro reconstitution of branching microtubule nucleation. <i>ELife</i> , <b>2020</b> , 9,	8.9	11
72	Studying molecular interactions in the intact organism: fluorescence correlation spectroscopy in the living zebrafish embryo. <i>Histochemistry and Cell Biology</i> , <b>2020</b> , 154, 507-519	2.4	5
71	Ca Release via IP Receptors Shapes the Cardiac Ca Transient for Hypertrophic Signaling. <i>Biophysical Journal</i> , <b>2020</b> , 119, 1178-1192	2.9	4
70	3D super-resolution microscopy performance and quantitative analysis assessment using DNA-PAINT and DNA origami test samples. <i>Methods</i> , <b>2020</b> , 174, 56-71	4.6	17
69	Three-Dimensional and Chemical Mapping of Intracellular Signaling Nanodomains in Health and Disease with Enhanced Expansion Microscopy. <i>ACS Nano</i> , <b>2019</b> , 13, 2143-2157	16.7	19
68	Practical Aspects of Localization Microscopy <b>2019</b> , 347-382		
67	Assessing Cardiomyocyte Excitation-Contraction Coupling Site Detection From Live Cell Imaging Using a Structurally-Realistic Computational Model of Calcium Release. <i>Frontiers in Physiology</i> , <b>2019</b> , 10, 1263	4.6	5
66	3D dSTORM imaging reveals novel detail of ryanodine receptor localization in rat cardiac myocytes. <i>Journal of Physiology</i> , <b>2019</b> , 597, 399-418	3.9	18
65	Excitation-Energy-Dependent Molecular Beacon Detects Early Stage Neurotoxic A $\beta$ Aggregates in the Presence of Cortical Neurons. <i>ACS Chemical Neuroscience</i> , <b>2019</b> , 10, 1240-1250	5.7	7

64	Highly variable contractile performance correlates with myocyte content in trabeculae from failing human hearts. <i>Scientific Reports</i> , <b>2018</b> , 8, 2957	4.9	12
63	Versatile multiplexed super-resolution imaging of nanostructures by Quencher-Exchange-PAINT. <i>Nano Research</i> , <b>2018</b> , 11, 6141-6154	10	9
62	True Molecular Scale Visualization of Variable Clustering Properties of Ryanodine Receptors. <i>Cell Reports</i> , <b>2018</b> , 22, 557-567	10.6	62
61	An Immune-Responsive Cytoskeletal-Plasma Membrane Feedback Loop in Plants. <i>Current Biology</i> , <b>2018</b> , 28, 2136-2144.e7	6.3	17
60	Advances in the Visualization of Molecular Assemblies Within Cellular Signaling Nanodomains: Insights From a Decade of Mapping of Ryanodine Receptor Clusters. <i>Advances in Biomembranes and Lipid Self-Assembly</i> , <b>2018</b> , 167-197	1	1
59	Cardiomyocyte Functional Etiology in Heart Failure With Preserved Ejection Fraction Is Distinctive-A New Preclinical Model. <i>Journal of the American Heart Association</i> , <b>2018</b> , 7,	6	17
58	Shining New Light on the Structural Determinants of Cardiac Couplon Function: Insights From Ten Years of Nanoscale Microscopy. <i>Frontiers in Physiology</i> , <b>2018</b> , 9, 1472	4.6	9
57	Quantitative Super-Resolution Microscopy of Cardiomyocytes <b>2018</b> , 37-73		
56	Ryanodine receptor cluster size sets the tone in cerebral smooth muscle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 10195-10197	11.5	2
55	N-terminal SAP97 isoforms differentially regulate synaptic structure and postsynaptic surface pools of AMPA receptors. <i>Hippocampus</i> , <b>2017</b> , 27, 668-682	3.5	9
54	Cover Image, Volume 27, Issue 6. <i>Hippocampus</i> , <b>2017</b> , 27, C1-C1	3.5	0
53	Nanoscale Properties of Human Telomeres Measured with a Dual Purpose X-ray Fluorescence and Super Resolution Microscopy Gold Nanoparticle Probe. <i>ACS Nano</i> , <b>2017</b> , 11, 12632-12640	16.7	14
52	Correlative Single-Molecule Localization Microscopy and Confocal Microscopy. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1663, 205-217	1.4	4
51	Transverse tubule remodelling: a cellular pathology driven by both sides of the plasmalemma?. <i>Biophysical Reviews</i> , <b>2017</b> , 9, 919-929	3.7	8
50	Cellular and Molecular Anatomy of the Human Neuromuscular Junction. <i>Cell Reports</i> , <b>2017</b> , 21, 2348-2356	10.6	93
49	Increased collagen within the transverse tubules in human heart failure. <i>Cardiovascular Research</i> , <b>2017</b> , 113, 879-891	9.9	39
48	Algorithmic corrections for localization microscopy with sCMOS cameras - characterisation of a computationally efficient localization approach. <i>Optics Express</i> , <b>2017</b> , 25, 11701-11716	3.3	19
47	Early transverse tubule development begins in utero in the sheep heart. <i>Journal of Muscle Research and Cell Motility</i> , <b>2016</b> , 37, 195-202	3.5	12

46	Junctophilin-2 in the nanoscale organisation and functional signalling of ryanodine receptor clusters in cardiomyocytes. <i>Journal of Cell Science</i> , <b>2016</b> , 129, 4388-4398	5.3	40
45	T-tubule disease: Relationship between t-tubule organization and regional contractile performance in human dilated cardiomyopathy. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2015</b> , 84, 170-8	5.8	57
44	Combining confocal and single molecule localisation microscopy: A correlative approach to multi-scale tissue imaging. <i>Methods</i> , <b>2015</b> , 88, 98-108	4.6	23
43	Revealing T-Tubules in Striated Muscle with New Optical Super-Resolution Microscopy Techniques. <i>European Journal of Translational Myology</i> , <b>2015</b> , 25, 4747	2.1	20
42	Examination of the Effects of Heterogeneous Organization of RyR Clusters, Myofibrils and Mitochondria on Ca <sup>2+</sup> Release Patterns in Cardiomyocytes. <i>PLoS Computational Biology</i> , <b>2015</b> , 11, e1004417	5.1	34
41	Nanoscale analysis of ryanodine receptor clusters in dyadic couplings of rat cardiac myocytes. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2015</b> , 80, 45-55	5.8	54
40	Super-resolution fluorescence imaging to study cardiac biophysics: F-actinin distribution and Z-disk topologies in optically thick cardiac tissue slices. <i>Progress in Biophysics and Molecular Biology</i> , <b>2014</b> , 115, 328-39	4.7	21
39	Observation of the molecular organization of calcium release sites in fast- and slow-twitch skeletal muscle with nanoscale imaging. <i>Journal of the Royal Society Interface</i> , <b>2014</b> , 11,	4.1	20
38	Reduced junctional Na <sup>+</sup> /Ca <sup>2+</sup> -exchanger activity contributes to sarcoplasmic reticulum Ca <sup>2+</sup> leak in junctophilin-2-deficient mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2014</b> , 307, H1317-26	5.2	25
37	Super-resolution imaging of EC coupling protein distribution in the heart. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2013</b> , 58, 32-40	5.8	30
36	Nanoscale distribution of ryanodine receptors and caveolin-3 in mouse ventricular myocytes: dilation of t-tubules near junctions. <i>Biophysical Journal</i> , <b>2013</b> , 104, L22-4	2.9	55
35	Nanoscale organization of junctophilin-2 and ryanodine receptors within peripheral couplings of rat ventricular cardiomyocytes. <i>Biophysical Journal</i> , <b>2012</b> , 102, L19-21	2.9	46
34	Changes in the organization of excitation-contraction coupling structures in failing human heart. <i>PLoS ONE</i> , <b>2011</b> , 6, e17901	3.7	115
33	4D super-resolution microscopy with conventional fluorophores and single wavelength excitation in optically thick cells and tissues. <i>PLoS ONE</i> , <b>2011</b> , 6, e20645	3.7	110
32	Three-dimensional sub-100 nm super-resolution imaging of biological samples using a phase ramp in the objective pupil. <i>Nano Research</i> , <b>2011</b> , 4, 589-598	10	61
31	Visualization of localization microscopy data. <i>Microscopy and Microanalysis</i> , <b>2010</b> , 16, 64-72	0.5	101
30	A new twist in cardiac muscle: dislocated and helicoid arrangements of myofibrillar z-disks in mammalian ventricular myocytes. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2010</b> , 48, 964-71	5.8	20
29	Solvent-induced microstructure changes and consequences for electrochemical activity of redox-active conducting polymers. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 3061-3067	6.7	23

28	Optical single-channel resolution imaging of the ryanodine receptor distribution in rat cardiac myocytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 22275-80	11.5	223
27	Conducting polymers for electrochemical DNA sensing. <i>Biomaterials</i> , <b>2009</b> , 30, 2132-48	15.6	271
26	Three-dimensional high-resolution imaging of cardiac proteins to construct models of intracellular Ca <sup>2+</sup> signalling in rat ventricular myocytes. <i>Experimental Physiology</i> , <b>2009</b> , 94, 496-508	2.4	50
25	Self-Assembly of Poly(o-methoxyaniline) Hollow Microspheres. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 9128-9134	3.8	36
24	Organization of ryanodine receptors, transverse tubules, and sodium-calcium exchanger in rat myocytes. <i>Biophysical Journal</i> , <b>2009</b> , 97, 2664-73	2.9	100
23	Light-induced dark states of organic fluochromes enable 30 nm resolution imaging in standard media. <i>Biophysical Journal</i> , <b>2009</b> , 96, L22-4	2.9	94
22	Quantum dots and nanostructured conducting polymers for biosensing applications. <i>International Journal of Nanotechnology</i> , <b>2009</b> , 6, 418	1.5	6
21	The effect of the oxidation state of a terthiophene-conducting polymer and of the presence of a redox probe on its gene-sensing properties. <i>Biosensors and Bioelectronics</i> , <b>2008</b> , 24, 934-9	11.8	13
20	Self-Assembled Hollow Polyaniline/Au Nanospheres Obtained by a One-Step Synthesis. <i>Macromolecular Rapid Communications</i> , <b>2008</b> , 29, 598-603	4.8	45
19	Quenching of an indocarbocyanine dye and functionalized CdSe/ZnS quantum dots by gold surfaces. <i>Current Applied Physics</i> , <b>2008</b> , 8, 308-311	2.6	1
18	Novel Conducting Polymers for DNA Sensing. <i>Macromolecules</i> , <b>2007</b> , 40, 909-914	5.5	93
17	Polymeric Acid Doped Polyaniline Nanotubes for Oligonucleotide Sensors. <i>Electroanalysis</i> , <b>2007</b> , 19, 870-875	3.75	68
16	Label-free detection of DNA hybridization based on a novel functionalized conducting polymer. <i>Biosensors and Bioelectronics</i> , <b>2007</b> , 22, 1868-73	11.8	102
15	Preparation of water-soluble CdTe/CdS core/shell quantum dots with enhanced photostability. <i>Journal of Luminescence</i> , <b>2007</b> , 127, 721-726	3.8	101
14	Synthesis of a functionalized polythiophene as an active substrate for a label-free electrochemical genosensor. <i>Polymer</i> , <b>2007</b> , 48, 3413-3419	3.9	54
13	DNA Sensors based on Conducting Polymers Functionalized with Conjugated Side Chain <b>2007</b> ,		3
12	Analysis of ryanodine receptor clusters in rat and human cardiac myocytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 14958-63	11.5	130
11	DNA hybridization detection with blue luminescent quantum dots and dye-labeled single-stranded DNA. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 3048-9	16.4	238

10	DNA-sensors based on functionalized conducting polymers and quantum dots <b>2006</b> ,		2
9	Three-dimensional distribution of ryanodine receptor clusters in cardiac myocytes. <i>Biophysical Journal</i> , <b>2006</b> , 91, 1-13	2.9	170
8	Electrochemical detection of DNA hybridization amplified by nanoparticles. <i>Biosensors and Bioelectronics</i> , <b>2006</b> , 21, 1727-36	11.8	98
7	Image Enhancement by Deconvolution <b>2006</b> , 488-500		35
6	Label-free electrochemical DNA sensor based on functionalised conducting copolymer. <i>Biosensors and Bioelectronics</i> , <b>2005</b> , 20, 1821-8	11.8	121
5	Analysing cardiac excitation-contraction coupling with mathematical models of local control. <i>Progress in Biophysics and Molecular Biology</i> , <b>2004</b> , 85, 141-62	4.7	41
4	Resolving morphology and antibody labeling over large distances in tissue sections. <i>Microscopy Research and Technique</i> , <b>2003</b> , 62, 83-91	2.8	29
3	Estimation of the sarcoplasmic reticulum Ca <sup>2+</sup> release flux underlying Ca <sup>2+</sup> sparks. <i>Biophysical Journal</i> , <b>2002</b> , 82, 2396-414	2.9	66
2	Detecting RyR clusters with CaCLEAN: influence of spatial distribution and structural heterogeneity		1
1	Comparing Transient Oligonucleotide Hybridization Kinetics Using DNA-PAINT and Optoplasmonic Single-Molecule Sensing on Gold Nanorods. <i>ACS Photonics</i> ,	6.3	5