

Markus Sauer

List of Publications by Year in descending order

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371
papers

25,987
citations

6250

80
h-index

9334

143
g-index

417
all docs

417
docs citations

417
times ranked

22816
citing authors

#	ARTICLE	IF	CITATIONS
1	Subdiffraction-Resolution Fluorescence Imaging with Conventional Fluorescent Probes. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 6172-6176.	7.2	1,659
2	FSP1 is a glutathione-independent ferroptosis suppressor. <i>Nature</i> , 2019, 575, 693-698.	13.7	1,624
3	Direct stochastic optical reconstruction microscopy with standard fluorescent probes. <i>Nature Protocols</i> , 2011, 6, 991-1009.	5.5	935
4	Super-resolution microscopy demystified. <i>Nature Cell Biology</i> , 2019, 21, 72-84.	4.6	754
5	A Reducing and Oxidizing System Minimizes Photobleaching and Blinking of Fluorescent Dyes. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5465-5469.	7.2	538
6	Fluorescence Quenching by Photoinduced Electron Transfer: A Reporter for Conformational Dynamics of Macromolecules. <i>ChemPhysChem</i> , 2009, 10, 1389-1398.	1.0	434
7	Light-induced cell damage in live-cell super-resolution microscopy. <i>Scientific Reports</i> , 2015, 5, 15348.	1.6	400
8	Single-molecule localization microscopy. <i>Nature Reviews Methods Primers</i> , 2021, 1, .	11.8	390
9	Carbocyanine Dyes as Efficient Reversible Single-Molecule Optical Switch. <i>Journal of the American Chemical Society</i> , 2005, 127, 3801-3806.	6.6	388
10	Super-Resolution Imaging with Small Organic Fluorophores. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 6903-6908.	7.2	386
11	rapidSTORM: accurate, fast open-source software for localization microscopy. <i>Nature Methods</i> , 2012, 9, 1040-1041.	9.0	356
12	Single-Molecule Localization Microscopy in Eukaryotes. <i>Chemical Reviews</i> , 2017, 117, 7478-7509.	23.0	337
13	Imaging cellular ultrastructures using expansion microscopy (U-ExM). <i>Nature Methods</i> , 2019, 16, 71-74.	9.0	335
14	Time-gated biological imaging by use of colloidal quantum dots. <i>Optics Letters</i> , 2001, 26, 825.	1.7	332
15	Live-cell super-resolution imaging with trimethoprim conjugates. <i>Nature Methods</i> , 2010, 7, 717-719.	9.0	315
16	Inter- and Intramolecular Fluorescence Quenching of Organic Dyes by Tryptophan. <i>Bioconjugate Chemistry</i> , 2003, 14, 1133-1139.	1.8	304
17	Super-resolution imaging visualizes the eightfold symmetry of gp210 proteins around the nuclear pore complex and resolves the central channel with nanometer resolution. <i>Journal of Cell Science</i> , 2012, 125, 570-575.	1.2	285
18	Live-Cell Super-Resolution Imaging with Synthetic Fluorophores. <i>Annual Review of Physical Chemistry</i> , 2012, 63, 519-540.	4.8	262

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19	Probes for Detection of Specific DNA Sequences at the Single-Molecule Level. <i>Analytical Chemistry</i> , 2000, 72, 3717-3724.	3.2	261
20	Photoswitches: Key molecules for subdiffraction-resolution fluorescence imaging and molecular quantification. <i>Laser and Photonics Reviews</i> , 2009, 3, 180-202.	4.4	247
21	Live-cell dSTORM with SNAP-tag fusion proteins. <i>Nature Methods</i> , 2011, 8, 7-9.	9.0	237
22	Branching Out of Single-Molecule Fluorescence Spectroscopy: Challenges for Chemistry and Influence on Biology. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 2642-2671.	7.2	232
23	Spectroscopic Study and Evaluation of Red-Absorbing Fluorescent Dyes. <i>Bioconjugate Chemistry</i> , 2003, 14, 195-204.	1.8	226
24	Photoinduced Electron Transfer between Fluorescent Dyes and Guanosine Residues in DNA-Hairpins. <i>Journal of Physical Chemistry B</i> , 2003, 107, 7957-7964.	1.2	225
25	Real-time computation of subdiffraction-resolution fluorescence images. <i>Journal of Microscopy</i> , 2010, 237, 12-22.	0.8	217
26	Quantitative super-resolution imaging of Bruchpilot distinguishes active zone states. <i>Nature Communications</i> , 2014, 5, 4650.	5.8	210
27	Multistep Energy Transfer in Single Molecular Photonic Wires. <i>Journal of the American Chemical Society</i> , 2004, 126, 6514-6515.	6.6	192
28	Photoinduced formation of reversible dye radicals and their impact on super-resolution imaging. <i>Photochemical and Photobiological Sciences</i> , 2011, 10, 499-506.	1.6	190
29	Multi-target spectrally resolved fluorescence lifetime imaging microscopy. <i>Nature Methods</i> , 2016, 13, 257-262.	9.0	190
30	A microscopic view of miniprotein folding: Enhanced folding efficiency through formation of an intermediate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 16650-16655.	3.3	173
31	Revealing competitive Forster-type resonance energy-transfer pathways in single bichromophoric molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 13146-13151.	3.3	168
32	How to switch a fluorophore: from undesired blinking to controlled photoswitching. <i>Chemical Society Reviews</i> , 2014, 43, 1076-1087.	18.7	164
33	A Close Look at Fluorescence Quenching of Organic Dyes by Tryptophan. <i>ChemPhysChem</i> , 2005, 6, 2277-2285.	1.0	155
34	Fluorescence Quenching of Dyes by Tryptophan: Interactions at Atomic Detail from Combination of Experiment and Computer Simulation. <i>Journal of the American Chemical Society</i> , 2003, 125, 14564-14572.	6.6	151
35	In Situ Measurements of the Formation and Morphology of Intracellular β -Amyloid Fibrils by Super-Resolution Fluorescence Imaging. <i>Journal of the American Chemical Society</i> , 2011, 133, 12902-12905.	6.6	151
36	Cellular Uptake Studies with β -Peptides. <i>ChemBioChem</i> , 2002, 3, 257-259.	1.3	147

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37	Quantitative single-molecule microscopy reveals that CENP-A ^{Cnp1} deposition occurs during G2 in fission yeast. <i>Open Biology</i> , 2012, 2, 120078.	1.5	145
38	Synthesis of a Far-Red Photoactivatable Silicon-Containing Rhodamine for Super-Resolution Microscopy. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 1723-1727.	7.2	142
39	Measurement of Submicrosecond Intramolecular Contact Formation in Peptides at the Single-Molecule Level. <i>Journal of the American Chemical Society</i> , 2003, 125, 5324-5330.	6.6	138
40	Mechano-dependent signaling by Latrophilin/CIRL quenches cAMP in proprioceptive neurons. <i>ELife</i> , 2017, 6, .	2.8	138
41	Measuring the Number of Independent Emitters in Single-Molecule Fluorescence Images and Trajectories Using Coincident Photons. <i>Analytical Chemistry</i> , 2002, 74, 5342-5349.	3.2	134
42	Eight years of single-molecule localization microscopy. <i>Histochemistry and Cell Biology</i> , 2014, 141, 561-575.	0.8	133
43	Single-Molecule-Sensitive Fluorescent Sensors Based on Photoinduced Intramolecular Charge Transfer. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 1790-1793.	7.2	131
44	Antibunching in the Emission of a Single Tetrachromophoric Dendritic System. <i>Journal of the American Chemical Society</i> , 2002, 124, 14310-14311.	6.6	129
45	New fluorescent dyes in the red region for biodiagnostics. <i>Journal of Fluorescence</i> , 1995, 5, 247-261.	1.3	126
46	Cyanine Conformational Restraint in the Far-Red Range. <i>Journal of the American Chemical Society</i> , 2017, 139, 12406-12409.	6.6	125
47	The initial step of DNA hairpin folding: a kinetic analysis using fluorescence correlation spectroscopy. <i>Nucleic Acids Research</i> , 2006, 34, 2516-2527.	6.5	124
48	A MYC-Driven Change in Mitochondrial Dynamics Limits YAP/TAZ Function in Mammary Epithelial Cells and Breast Cancer. <i>Cancer Cell</i> , 2015, 28, 743-757.	7.7	122
49	The effect of photoswitching kinetics and labeling densities on super-resolution fluorescence imaging. <i>Journal of Biotechnology</i> , 2010, 149, 260-266.	1.9	121
50	Photophysical Dynamics of Single Molecules Studied by Spectrally-Resolved Fluorescence Lifetime Imaging Microscopy (SFLIM). <i>Journal of Physical Chemistry A</i> , 2001, 105, 7989-8003.	1.1	120
51	Fluorescence resonance energy transfer (FRET) and competing processes in donor-acceptor substituted DNA strands: a comparative study of ensemble and single-molecule data. <i>Reviews in Molecular Biotechnology</i> , 2002, 82, 211-231.	2.9	120
52	Super-resolution microscopy reveals ultra-low CD19 expression on myeloma cells that triggers elimination by CD19 CAR-T. <i>Nature Communications</i> , 2019, 10, 3137.	5.8	120
53	Probing Förster Type Energy Pathways in a First Generation Rigid Dendrimer Bearing Two Perylene Imide Chromophores. <i>Journal of Physical Chemistry A</i> , 2003, 107, 6920-6931.	1.1	119
54	Multiplex Dye DNA Sequencing in Capillary Gel Electrophoresis by Diode Laser-Based Time-Resolved Fluorescence Detection. <i>Analytical Chemistry</i> , 1998, 70, 4771-4779.	3.2	118

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55	Probing polyproline structure and dynamics by photoinduced electron transfer provides evidence for deviations from a regular polyproline type II helix. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 17400-17405.	3.3	116
56	Super-resolution Imaging Reveals the Internal Architecture of Nano-sized Syntaxin Clusters. <i>Journal of Biological Chemistry</i> , 2012, 287, 27158-27167.	1.6	116
57	Multicolor photoswitching microscopy for subdiffraction-resolution fluorescence imaging. <i>Photochemical and Photobiological Sciences</i> , 2009, 8, 465-469.	1.6	114
58	Molecular resolution imaging by post-labeling expansion single-molecule localization microscopy (Ex-SMLM). <i>Nature Communications</i> , 2020, 11, 3388.	5.8	112
59	p53 family members in myogenic differentiation and rhabdomyosarcoma development. <i>Cancer Cell</i> , 2006, 10, 281-293.	7.7	108
60	High-Resolution Colocalization of Single Dye Molecules by Fluorescence Lifetime Imaging Microscopy. <i>Analytical Chemistry</i> , 2002, 74, 3511-3517.	3.2	107
61	Dynamics of Unfolded Polypeptide Chains in Crowded Environment Studied by Fluorescence Correlation Spectroscopy. <i>Journal of Molecular Biology</i> , 2007, 365, 856-869.	2.0	105
62	Single-Molecule STED Microscopy with Photostable Organic Fluorophores. <i>Small</i> , 2010, 6, 1379-1384.	5.2	105
63	Dynamical fingerprints for probing individual relaxation processes in biomolecular dynamics with simulations and kinetic experiments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 4822-4827.	3.3	105
64	Time-resolved detection and identification of single analyte molecules in microcapillaries by time-correlated single-photon counting (TCSPC). <i>Review of Scientific Instruments</i> , 1999, 70, 1835-1841.	0.6	104
65	Correlative super-resolution fluorescence and electron microscopy of the nuclear pore complex with molecular resolution. <i>Journal of Cell Science</i> , 2014, 127, 4351-5.	1.2	104
66	Photoswitching microscopy with standard fluorophores. <i>Applied Physics B: Lasers and Optics</i> , 2008, 93, 725-731.	1.1	102
67	Hybrid Carbon Nanotube Networks as Efficient Hole Extraction Layers for Organic Photovoltaics. <i>ACS Nano</i> , 2013, 7, 556-565.	7.3	102
68	Bioorthogonal labeling with tetrazine-dyes for super-resolution microscopy. <i>Communications Biology</i> , 2019, 2, 261.	2.0	101
69	Reversible molecular photoswitches: A key technology for nanoscience and fluorescence imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 9433-9434.	3.3	97
70	Elucidation of synaptonemal complex organization by super-resolution imaging with isotropic resolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 2029-2033.	3.3	97
71	Subdiffraction-resolution fluorescence imaging of proteins in the mitochondrial inner membrane with photoswitchable fluorophores. <i>Journal of Structural Biology</i> , 2008, 164, 250-254.	1.3	96
72	The CsrA-FliW network controls polar localization of the dual-function flagellin mRNA in <i>Campylobacter jejuni</i> . <i>Nature Communications</i> , 2016, 7, 11667.	5.8	93

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73	Dissecting and Reducing the Heterogeneity of Excited-State Energy Transport in DNA-Based Photonic Wires. <i>Journal of the American Chemical Society</i> , 2006, 128, 16864-16875.	6.6	91
74	Fluorescence of Single Molecules in Polymer Films: A Sensitivity of Blinking to Local Environment. <i>Journal of Physical Chemistry B</i> , 2007, 111, 6987-6991.	1.2	91
75	Excitonic Behavior of Rhodamine Dimers: A Single-Molecule Study. <i>Journal of Physical Chemistry A</i> , 2003, 107, 43-52.	1.1	90
76	DNA Binding Cooperativity of p53 Modulates the Decision between Cell-Cycle Arrest and Apoptosis. <i>Molecular Cell</i> , 2010, 38, 356-368.	4.5	89
77	Superresolution Optical Fluctuation Imaging with Organic Dyes. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 9441-9443.	7.2	88
78	Single molecule DNA sequencing in submicrometer channels: state of the art and future prospects. <i>Journal of Biotechnology</i> , 2001, 86, 181-201.	1.9	87
79	Localization microscopy coming of age: from concepts to biological impact. <i>Journal of Cell Science</i> , 2013, 126, 3505-3513.	1.2	86
80	Artifacts in single-molecule localization microscopy. <i>Histochemistry and Cell Biology</i> , 2015, 144, 123-131.	0.8	84
81	A Single-Molecule Sensitive DNA Hairpin System Based on Intramolecular Electron Transfer. <i>Nano Letters</i> , 2003, 3, 979-982.	4.5	83
82	Janus Nanomembranes: A Generic Platform for Chemistry in Two Dimensions. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 8493-8497.	7.2	83
83	Single-molecule counting and identification in a microcapillary. <i>Chemical Physics Letters</i> , 1998, 286, 457-465.	1.2	80
84	Superresolution Imaging of Plasma Membrane Glycans. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 10921-10924.	7.2	80
85	Dynamics of the electron transfer reaction between an oxazine dye and DNA oligonucleotides monitored on the single-molecule level. <i>Chemical Physics Letters</i> , 1998, 284, 153-163.	1.2	78
86	Detection and Identification of Single Molecules in Living Cells Using Spectrally Resolved Fluorescence Lifetime Imaging Microscopy. <i>Analytical Chemistry</i> , 2003, 75, 2147-2153.	3.2	78
87	Multichromophoric Dendrimers as Single-Photon Sources: A Single-Molecule Study. <i>Journal of Physical Chemistry B</i> , 2004, 108, 16686-16696.	1.2	76
88	Spiropyran as molecular optical switches. <i>Photochemical and Photobiological Sciences</i> , 2010, 9, 213-220.	1.6	76
89	Design of Molecular Photonic Wires Based on Multistep Electronic Excitation Transfer. <i>ChemPhysChem</i> , 2005, 6, 217-222.	1.0	75
90	High abundance of BDNF within glutamatergic presynapses of cultured hippocampal neurons. <i>Frontiers in Cellular Neuroscience</i> , 2014, 8, 107.	1.8	73

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91	OmoMYC blunts promoter invasion by oncogenic MYC to inhibit gene expression characteristic of MYC-dependent tumors. <i>Oncogene</i> , 2017, 36, 1911-1924.	2.6	73
92	Higher-Excited-State Photophysical Pathways in Multichromophoric Systems Revealed by Single-Molecule Fluorescence Spectroscopy. <i>ChemPhysChem</i> , 2004, 5, 1786-1790.	1.0	72
93	Polymer Properties of Polythymine as Revealed by Translational Diffusion. <i>Biophysical Journal</i> , 2007, 93, 1224-1234.	0.2	71
94	Measuring localization performance of super-resolution algorithms on very active samples. <i>Optics Express</i> , 2011, 19, 7020.	1.7	70
95	Super-Resolution Imaging of Molecular Emission Spectra and Single Molecule Spectral Fluctuations. <i>PLoS ONE</i> , 2016, 11, e0147506.	1.1	70
96	Chemical and Biological Investigations of β^2 -Oligoarginines. <i>Chemistry and Biodiversity</i> , 2004, 1, 65-97.	1.0	69
97	CD56 Is a Pathogen Recognition Receptor on Human Natural Killer Cells. <i>Scientific Reports</i> , 2017, 7, 6138.	1.6	68
98	The effect of electrolyte additives on electrochemical performance of silicon/mesoporous carbon (Si/MC) for anode materials for lithium-ion batteries. <i>Electrochimica Acta</i> , 2017, 247, 600-609.	2.6	67
99	Confocal Fluorescence Lifetime Imaging Microscopy (FLIM) at the Single Molecule Level. <i>Single Molecules</i> , 2000, 1, 215-223.	1.6	66
100	Photometry unlocks 3D information from 2D localization microscopy data. <i>Nature Methods</i> , 2017, 14, 41-44.	9.0	66
101	Correlative Photoactivated Localization and Scanning Electron Microscopy. <i>PLoS ONE</i> , 2013, 8, e77209.	1.1	65
102	Confocal Fluorescence-Lifetime Single-Molecule Localization Microscopy. <i>ACS Nano</i> , 2020, 14, 14190-14200.	7.3	65
103	Tailoring recombinant protein quality by rational media design. <i>Biotechnology Progress</i> , 2015, 31, 615-629.	1.3	64
104	Time-resolved identification of single molecules in solution with a pulsed semiconductor diode laser. <i>Chemical Physics Letters</i> , 1996, 262, 716-722.	1.2	63
105	Direct Observation of Collective Blinking and Energy Transfer in a Bichromophoric System. <i>Journal of Physical Chemistry A</i> , 2003, 107, 323-327.	1.1	63
106	Application of multiline two-photon microscopy to functional in vivo imaging. <i>Journal of Neuroscience Methods</i> , 2006, 151, 276-286.	1.3	63
107	Human autoantibodies to amphiphysin induce defective presynaptic vesicle dynamics and composition. <i>Brain</i> , 2016, 139, 365-379.	3.7	62
108	Doping of single-walled carbon nanotubes controlled via chemical transformation of encapsulated nickelocene. <i>Nanoscale</i> , 2015, 7, 1383-1391.	2.8	60

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109	Electron induced chemical nanolithography with self-assembled monolayers. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2001, 19, 2732.	1.6	59
110	Detection of Individual p53-Autoantibodies by Using Quenched Peptide-Based Molecular Probes. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 4769-4773.	7.2	59
111	Species-Specific Identification of Mycobacterial 16S rRNA PCR Amplicons Using Smart Probes. <i>Analytical Chemistry</i> , 2005, 77, 7195-7203.	3.2	59
112	Characterization of Plasma Membrane Ceramides by Super-Resolution Microscopy. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6131-6135.	7.2	59
113	Tethered agonist exposure in intact adhesion/class B2 GPCRs through intrinsic structural flexibility of the GAIN domain. <i>Molecular Cell</i> , 2021, 81, 905-921.e5.	4.5	59
114	Time-resolved identification of individual mononucleotide molecules in aqueous solution with pulsed semiconductor lasers. <i>Bioimaging</i> , 1998, 6, 14-24.	1.8	58
115	Controlled three-dimensional immobilization of biomolecules on chemically patterned surfaces. <i>Journal of Biotechnology</i> , 2004, 112, 97-107.	1.9	58
116	Fluorescent proteins for single-molecule fluorescence applications. <i>Journal of Biophotonics</i> , 2008, 1, 74-82.	1.1	58
117	Defocused imaging of quantum-dot angular distribution of radiation. <i>Applied Physics Letters</i> , 2005, 87, 101103.	1.5	57
118	Colocalization and FRET-analysis of subunits c and a of the vacuolar H ⁺ -ATPase in living plant cells. <i>Journal of Biotechnology</i> , 2004, 112, 165-175.	1.9	56
119	Instant Live-Cell Super-Resolution Imaging of Cellular Structures by Nano-injection of Fluorescent Probes. <i>Nano Letters</i> , 2015, 15, 1374-1381.	4.5	55
120	Investigating Cellular Structures at the Nanoscale with Organic Fluorophores. <i>Chemistry and Biology</i> , 2013, 20, 8-18.	6.2	54
121	7-Substituted 7-Deaza-2'-deoxyadenosines and 8-Aza-7-deaza-2'-deoxyadenosines: Fluorescence of DNA-Base Analogues Induced by the 7-Alkynyl Side Chain. <i>Helvetica Chimica Acta</i> , 2000, 83, 910-927.	1.0	53
122	Time-varying photon probability distribution of individual molecules at room temperature. <i>Chemical Physics Letters</i> , 2001, 345, 252-258.	1.2	53
123	Changes in Conformational Dynamics of mRNA upon <i>At</i> GRP7 Binding Studied by Fluorescence Correlation Spectroscopy. <i>Journal of the American Chemical Society</i> , 2008, 130, 9507-9513.	6.6	53
124	Detection and characterization of single molecules in aqueous solution. <i>Applied Physics B: Lasers and Optics</i> , 1996, 63, 517-523.	1.1	53
125	A Blueprint for Cost-Efficient Localization Microscopy. <i>ChemPhysChem</i> , 2014, 15, 651-654.	1.0	52
126	Super-resolution imaging reveals the nanoscale organization of metabotropic glutamate receptors at presynaptic active zones. <i>Science Advances</i> , 2020, 6, eaay7193.	4.7	52

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127	Ensemble and single-molecule fluorescence spectroscopic study of the binding modes of the bis-benzimidazole derivative Hoechst 33258 with DNA. <i>Nucleic Acids Research</i> , 2003, 31, 2178-2186.	6.5	51
128	C-terminal diversity within the p53 family accounts for differences in DNA binding and transcriptional activity. <i>Nucleic Acids Research</i> , 2008, 36, 1900-1912.	6.5	50
129	Methylene Blue- and Thiol-Based Oxygen Depletion for Super-Resolution Imaging. <i>Analytical Chemistry</i> , 2013, 85, 3393-3400.	3.2	50
130	The chlamydial organism <i>Simkania negevensis</i> forms ER vacuole contact sites and inhibits ER-stress. <i>Cellular Microbiology</i> , 2014, 16, 1224-1243.	1.1	50
131	Quantitative Localization Microscopy: Effects of Photophysics and Labeling Stoichiometry. <i>PLoS ONE</i> , 2015, 10, e0127989.	1.1	50
132	Using Photoinduced Charge Transfer Reactions to Study Conformational Dynamics of Biopolymers at the Single-Molecule Level. <i>Current Pharmaceutical Biotechnology</i> , 2004, 5, 285-298.	0.9	49
133	One-step synthesis and XPS investigations of chiral NHC-Au(0)/Au nanoparticles. <i>Nanoscale</i> , 2019, 11, 8327-8333.	2.8	49
134	Whole-cell imaging of plasma membrane receptors by 3D lattice light-sheet dSTORM. <i>Nature Communications</i> , 2020, 11, 887.	5.8	49
135	DNA-Based Molecular Wires: Multiple Emission Pathways of Individual Constructs. <i>Journal of Physical Chemistry B</i> , 2006, 110, 26349-26353.	1.2	48
136	p73 poses a barrier to malignant transformation by limiting anchorage-independent growth. <i>EMBO Journal</i> , 2008, 27, 792-803.	3.5	48
137	Upregulation of CD38 expression on multiple myeloma cells by novel HDAC6 inhibitors is a class effect and augments the efficacy of daratumumab. <i>Leukemia</i> , 2021, 35, 201-214.	3.3	48
138	Radiative and Nonradiative Rate Fluctuations of Single Colloidal Semiconductor Nanocrystals. <i>Journal of Physical Chemistry B</i> , 2006, 110, 5174-5178.	1.2	47
139	Defining the Basis of Cyanine Phototruncation Enables a New Approach to Single-Molecule Localization Microscopy. <i>ACS Central Science</i> , 2021, 7, 1144-1155.	5.3	47
140	Diode laser based detection of single molecules in solutions. <i>Chemical Physics Letters</i> , 1996, 254, 223-228.	1.2	45
141	Detection and identification of single dye labeled mononucleotide molecules released from an optical fiber in a microcapillary: First steps towards a new single molecule DNA sequencing technique. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 2471-2477.	1.3	45
142	Highly Sensitive Protease Assay Using Fluorescence Quenching of Peptide Probes Based on Photoinduced Electron Transfer. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 3798-3801.	7.2	45
143	Hydrogen-Bond Driven Loop-Closure Kinetics in Unfolded Polypeptide Chains. <i>PLoS Computational Biology</i> , 2010, 6, e1000645.	1.5	44
144	Bioorthogonal Click Chemistry Enables Site-specific Fluorescence Labeling of Functional NMDA Receptors for Super-Resolution Imaging. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16364-16369.	7.2	44

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145	Optimal Algorithm for Single-Molecule Identification with Time-Correlated Single-Photon Counting. <i>Journal of Physical Chemistry A</i> , 2001, 105, 48-53.	1.1	43
146	Quantifying protein densities on cell membranes using super-resolution optical fluctuation imaging. <i>Nature Communications</i> , 2017, 8, 1731.	5.8	43
147	Nanoscale imaging of bacterial infections by sphingolipid expansion microscopy. <i>Nature Communications</i> , 2020, 11, 6173.	5.8	43
148	Photobleuing of organic dyes can cause artifacts in super-resolution microscopy. <i>Nature Methods</i> , 2021, 18, 253-257.	9.0	42
149	Filling the gap: adding super-resolution to array tomography for correlated ultrastructural and molecular identification of electrical synapses at the <i>C. elegans</i> connectome. <i>Neurophotonics</i> , 2016, 3, 041802.	1.7	41
150	Synthesis of a Far-Red Photoactivatable Silicon-Containing Rhodamine for Super-Resolution Microscopy. <i>Angewandte Chemie</i> , 2016, 128, 1755-1759.	1.6	40
151	Super-resolving Microscopy in Neuroscience. <i>Chemical Reviews</i> , 2021, 121, 11971-12015.	23.0	40
152	Hydrodynamic Properties of Human Adhesion/Growth-Regulatory Galectins Studied by Fluorescence Correlation Spectroscopy. <i>Biophysical Journal</i> , 2010, 98, 3044-3053.	0.2	39
153	Spatio-temporal Remodeling of Functional Membrane Microdomains Organizes the Signaling Networks of a Bacterium. <i>PLoS Genetics</i> , 2015, 11, e1005140.	1.5	39
154	Subdiffraction-Resolution Fluorescence Microscopy of Myosin-Actin Motility. <i>ChemPhysChem</i> , 2010, 11, 836-840.	1.0	38
155	Identification of the Product of Photoswitching of an Oxazine Fluorophore Using Fourier Transform Infrared Difference Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 3156-3159.	2.1	38
156	Superresolution Optical Fluctuation Imaging (SOFI). <i>Advances in Experimental Medicine and Biology</i> , 2012, 733, 17-21.	0.8	38
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