

Markus Sauer

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356
papers

19,793
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75
h-index

130
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417
ext. papers

23,256
ext. citations

7.9
avg, IF

6.92
L-index

#	Paper	IF	Citations
356	Subdiffraction-resolution fluorescence imaging with conventional fluorescent probes. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 6172-6	16.4	1341
355	Direct stochastic optical reconstruction microscopy with standard fluorescent probes. <i>Nature Protocols</i> , 2011 , 6, 991-1009	18.8	690
354	FSP1 is a glutathione-independent ferroptosis suppressor. <i>Nature</i> , 2019 , 575, 693-698	50.4	663
353	A reducing and oxidizing system minimizes photobleaching and blinking of fluorescent dyes. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 5465-9	16.4	463
352	Super-resolution microscopy demystified. <i>Nature Cell Biology</i> , 2019 , 21, 72-84	23.4	409
351	Fluorescence quenching by photoinduced electron transfer: a reporter for conformational dynamics of macromolecules. <i>ChemPhysChem</i> , 2009 , 10, 1389-98	3.2	358
350	Carbocyanine dyes as efficient reversible single-molecule optical switch. <i>Journal of the American Chemical Society</i> , 2005 , 127, 3801-6	16.4	341
349	Super-resolution imaging with small organic fluorophores. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 6903-8	16.4	330
348	Light-induced cell damage in live-cell super-resolution microscopy. <i>Scientific Reports</i> , 2015 , 5, 15348	4.9	306
347	Time-gated biological imaging by use of colloidal quantum dots. <i>Optics Letters</i> , 2001 , 26, 825-7	3	286
346	Live-cell super-resolution imaging with trimethoprim conjugates. <i>Nature Methods</i> , 2010 , 7, 717-9	21.6	274
345	rapidSTORM: accurate, fast open-source software for localization microscopy. <i>Nature Methods</i> , 2012 , 9, 1040-1	21.6	265
344	Inter- and intramolecular fluorescence quenching of organic dyes by tryptophan. <i>Bioconjugate Chemistry</i> , 2003 , 14, 1133-9	6.3	262
343	Probes for detection of specific DNA sequences at the single-molecule level. <i>Analytical Chemistry</i> , 2000 , 72, 3717-24	7.8	235
342	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, 570-5	5.3	224
341	Live-cell super-resolution imaging with synthetic fluorophores. <i>Annual Review of Physical Chemistry</i> , 2012 , 63, 519-40	15.7	218
340	Photoswitches: Key molecules for subdiffraction-resolution fluorescence imaging and molecular quantification. <i>Laser and Photonics Reviews</i> , 2009 , 3, 180-202	8.3	218

339	Branching out of single-molecule fluorescence spectroscopy: challenges for chemistry and influence on biology. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 2642-2671	16.4	218
338	Live-cell dSTORM with SNAP-tag fusion proteins. <i>Nature Methods</i> , 2011 , 8, 7-9	21.6	211
337	Single-Molecule Localization Microscopy in Eukaryotes. <i>Chemical Reviews</i> , 2017 , 117, 7478-7509	68.1	209
336	Spectroscopic study and evaluation of red-absorbing fluorescent dyes. <i>Bioconjugate Chemistry</i> , 2003 , 14, 195-204	6.3	206
335	Photoinduced Electron Transfer between Fluorescent Dyes and Guanosine Residues in DNA-Hairpins. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 7957-7964	3.4	201
334	Real-time computation of subdiffraction-resolution fluorescence images. <i>Journal of Microscopy</i> , 2010 , 237, 12-22	1.9	195
333	Multistep energy transfer in single molecular photonic wires. <i>Journal of the American Chemical Society</i> , 2004 , 126, 6514-5	16.4	179
332	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, 16650-5	11.5	167
331	2011 ,		166
330	Photoinduced formation of reversible dye radicals and their impact on super-resolution imaging. <i>Photochemical and Photobiological Sciences</i> , 2011 , 10, 499-506	4.2	159
329	Imaging cellular ultrastructures using expansion microscopy (U-ExM). <i>Nature Methods</i> , 2019 , 16, 71-74	21.6	153
328	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, 13146-51	11.5	152
327	Quantitative super-resolution imaging of Bruchpilot distinguishes active zone states. <i>Nature Communications</i> , 2014 , 5, 4650	17.4	144
326	Multi-target spectrally resolved fluorescence lifetime imaging microscopy. <i>Nature Methods</i> , 2016 , 13, 257-62	21.6	138
325	A close look at fluorescence quenching of organic dyes by tryptophan. <i>ChemPhysChem</i> , 2005 , 6, 2277-85	3.2	138
324	Measurement of submicrosecond intramolecular contact formation in peptides at the single-molecule level. <i>Journal of the American Chemical Society</i> , 2003 , 125, 5324-30	16.4	132
323	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, 12902-5	16.4	129
322	How to switch a fluorophore: from undesired blinking to controlled photoswitching. <i>Chemical Society Reviews</i> , 2014 , 43, 1076-87	58.5	128

321	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, 14564-72	16.4	128
320	Cellular uptake studies with beta-peptides. <i>ChemBioChem</i> , 2002 , 3, 257-9	3.8	126
319	New fluorescent dyes in the red region for biodiagnostics. <i>Journal of Fluorescence</i> , 1995 , 5, 247-61	2.4	118
318	The initial step of DNA hairpin folding: a kinetic analysis using fluorescence correlation spectroscopy. <i>Nucleic Acids Research</i> , 2006 , 34, 2516-27	20.1	117
317	Single-molecule-sensitive fluorescent sensors based on photoinduced intramolecular charge transfer. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 1790-3	16.4	116
316	Measuring the number of independent emitters in single-molecule fluorescence images and trajectories using coincident photons. <i>Analytical Chemistry</i> , 2002 , 74, 5342-9	7.8	116
315	Quantitative single-molecule microscopy reveals that CENP-A(Cnp1) deposition occurs during G2 in fission yeast. <i>Open Biology</i> , 2012 , 2, 120078	7	114
314	Antibunching in the emission of a single tetrachromophoric dendritic system. <i>Journal of the American Chemical Society</i> , 2002 , 124, 14310-1	16.4	114
313	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	2.8	113
312	The effect of photoswitching kinetics and labeling densities on super-resolution fluorescence imaging. <i>Journal of Biotechnology</i> , 2010 , 149, 260-6	3.7	110
311	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, 211-31		110
310	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	2.8	109
309	Multiplex dye DNA sequencing in capillary gel electrophoresis by diode laser-based time-resolved fluorescence detection. <i>Analytical Chemistry</i> , 1998 , 70, 4771-9	7.8	108
308	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, 17400-5	11.5	107
307	Synthesis of a Far-Red Photoactivatable Silicon-Containing Rhodamine for Super-Resolution Microscopy. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 1723-7	16.4	107
306	Multicolor photoswitching microscopy for subdiffraction-resolution fluorescence imaging. <i>Photochemical and Photobiological Sciences</i> , 2009 , 8, 465-9	4.2	104
305	Super-resolution imaging reveals the internal architecture of nano-sized syntaxin clusters. <i>Journal of Biological Chemistry</i> , 2012 , 287, 27158-67	5.4	102
304	Eight years of single-molecule localization microscopy. <i>Histochemistry and Cell Biology</i> , 2014 , 141, 561-75	2.4	99

303	p53 family members in myogenic differentiation and rhabdomyosarcoma development. <i>Cancer Cell</i> , 2006 , 10, 281-93	24.3	97
302	Dynamics of unfolded polypeptide chains in crowded environment studied by fluorescence correlation spectroscopy. <i>Journal of Molecular Biology</i> , 2007 , 365, 856-69	6.5	97
301	Hybrid carbon nanotube networks as efficient hole extraction layers for organic photovoltaics. <i>ACS Nano</i> , 2013 , 7, 556-65	16.7	95
300	Single-molecule STED microscopy with photostable organic fluorophores. <i>Small</i> , 2010 , 6, 1379-84	11	95
299	Fluoreszenzmikroskopie unterhalb der optischen Auflösungsgrenze mit konventionellen Fluoreszenzsonden. <i>Angewandte Chemie</i> , 2008 , 120, 6266-6271	3.6	94
298	High-resolution colocalization of single dye molecules by fluorescence lifetime imaging microscopy. <i>Analytical Chemistry</i> , 2002 , 74, 3511-7	7.8	92
297	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	24.3	91
296	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, 4822-7	11.5	90
295	Photoswitching microscopy with standard fluorophores. <i>Applied Physics B: Lasers and Optics</i> , 2008 , 93, 725-731	1.9	90
294	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	5.3	89
293	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	1.7	89
292	Subdiffraction-resolution fluorescence imaging of proteins in the mitochondrial inner membrane with photoswitchable fluorophores. <i>Journal of Structural Biology</i> , 2008 , 164, 250-4	3.4	86
291	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, 16864-75	16.4	86
290	Excitonic Behavior of Rhodamine Dimers: A Single-Molecule Study. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 43-52	2.8	86
289	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, 9433-4	11.5	86
288	Fluorescence of single molecules in polymer films: sensitivity of blinking to local environment. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 6987-91	3.4	85
287	Single molecule DNA sequencing in submicrometer channels: state of the art and future prospects. <i>Journal of Biotechnology</i> , 2001 , 86, 181-201	3.7	82
286	Superresolution optical fluctuation imaging with organic dyes. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 9441-3	16.4	81

285	Janus nanomembranes: a generic platform for chemistry in two dimensions. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 8493-7	16.4	80
284	A Single-Molecule Sensitive DNA Hairpin System Based on Intramolecular Electron Transfer. <i>Nano Letters</i> , 2003 , 3, 979-982	11.5	78
283	Localization microscopy coming of age: from concepts to biological impact. <i>Journal of Cell Science</i> , 2013 , 126, 3505-13	5.3	77
282	Mechano-dependent signaling by Latrophilin/CIRL quenches cAMP in proprioceptive neurons. <i>ELife</i> , 2017 , 6,	8.9	77
281	Cyanine Conformational Restraint in the Far-Red Range. <i>Journal of the American Chemical Society</i> , 2017 , 139, 12406-12409	16.4	75
280	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	2.5	75
279	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	17.4	74
278	Detection and identification of single molecules in living cells using spectrally resolved fluorescence lifetime imaging microscopy. <i>Analytical Chemistry</i> , 2003 , 75, 2147-53	7.8	74
277	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, 2029-33	11.5	71
276	DNA binding cooperativity of p53 modulates the decision between cell-cycle arrest and apoptosis. <i>Molecular Cell</i> , 2010 , 38, 356-68	17.6	69
275	Multichromophoric Dendrimers as Single-Photon Sources: A Single-Molecule Study. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 16686-16696	3.4	69
274	Design of molecular photonic wires based on multistep electronic excitation transfer. <i>ChemPhysChem</i> , 2005 , 6, 217-22	3.2	69
273	Super-resolution imaging of plasma membrane glycans. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 10921-4	16.4	68
272	Higher-excited-state photophysical pathways in multichromophoric systems revealed by single-molecule fluorescence spectroscopy. <i>ChemPhysChem</i> , 2004 , 5, 1786-90	3.2	68
271	Single-molecule localization microscopy. <i>Nature Reviews Methods Primers</i> , 2021 , 1,		67
270	Artifacts in single-molecule localization microscopy. <i>Histochemistry and Cell Biology</i> , 2015 , 144, 123-31	2.4	66
269	Measuring localization performance of super-resolution algorithms on very active samples. <i>Optics Express</i> , 2011 , 19, 7020-33	3.3	66
268	Single-molecule counting and identification in a microcapillary. <i>Chemical Physics Letters</i> , 1998 , 286, 457-465		65

267	Chemical and biological investigations of beta-oligoarginines. <i>Chemistry and Biodiversity</i> , 2004 , 1, 65-97	2.5	65
266	Spiropyran as molecular optical switches. <i>Photochemical and Photobiological Sciences</i> , 2010 , 9, 213-20	4.2	61
265	Polymer properties of polythymine as revealed by translational diffusion. <i>Biophysical Journal</i> , 2007 , 93, 1224-34	2.9	61
264	Correlative photoactivated localization and scanning electron microscopy. <i>PLoS ONE</i> , 2013 , 8, e77209	3.7	60
263	Direct Observation of Collective Blinking and Energy Transfer in a Bichromophoric System. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 323-327	2.8	59
262	The CsrA-FlhW network controls polar localization of the dual-function flagellin mRNA in <i>Campylobacter jejuni</i> . <i>Nature Communications</i> , 2016 , 7, 11667	17.4	58
261	Tailoring recombinant protein quality by rational media design. <i>Biotechnology Progress</i> , 2015 , 31, 615-292.8		57
260	OmoMYC blunts promoter invasion by oncogenic MYC to inhibit gene expression characteristic of MYC-dependent tumors. <i>Oncogene</i> , 2017 , 36, 1911-1924	9.2	57
259	Application of multiline two-photon microscopy to functional in vivo imaging. <i>Journal of Neuroscience Methods</i> , 2006 , 151, 276-86	3	57
258	Confocal Fluorescence Lifetime Imaging Microscopy (FLIM) at the Single Molecule Level. <i>Single Molecules</i> , 2000 , 1, 215-223		57
257	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		56
256	Time-resolved identification of single molecules in solution with a pulsed semiconductor diode laser. <i>Chemical Physics Letters</i> , 1996 , 262, 716-722	2.5	56
255	Photometry unlocks 3D information from 2D localization microscopy data. <i>Nature Methods</i> , 2017 , 14, 41-44	21.6	54
254	Controlled three-dimensional immobilization of biomolecules on chemically patterned surfaces. <i>Journal of Biotechnology</i> , 2004 , 112, 97-107	3.7	54
253	Ein System aus Reduktions- und Oxidationsmittel verringert Photobleichen und Blinken von Fluoreszenzfarbstoffen. <i>Angewandte Chemie</i> , 2008 , 120, 5545-5550	3.6	53
252	High abundance of BDNF within glutamatergic presynapses of cultured hippocampal neurons. <i>Frontiers in Cellular Neuroscience</i> , 2014 , 8, 107	6.1	52
251	Species-specific identification of mycobacterial 16S rRNA PCR amplicons using smart probes. <i>Analytical Chemistry</i> , 2005 , 77, 7195-203	7.8	52
250	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, 165-75	3.7	52

249	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	2	52
248	Molecular resolution imaging by post-labeling expansion single-molecule localization microscopy (Ex-SMLM). <i>Nature Communications</i> , 2020 , 11, 3388	17.4	51
247	Detection of individual p53-autoantibodies by using quenched peptide-based molecular probes. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 4769-73	16.4	51
246	Time-resolved identification of individual mononucleotide molecules in aqueous solution with pulsed semiconductor lasers. <i>Bioimaging</i> , 1998 , 6, 14-24		49
245	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	6.7	48
244	Changes in conformational dynamics of mRNA upon AtGRP7 binding studied by fluorescence correlation spectroscopy. <i>Journal of the American Chemical Society</i> , 2008 , 130, 9507-13	16.4	48
243	Time-varying photon probability distribution of individual molecules at room temperature. <i>Chemical Physics Letters</i> , 2001 , 345, 252-258	2.5	48
242	Doping of single-walled carbon nanotubes controlled via chemical transformation of encapsulated nickelocene. <i>Nanoscale</i> , 2015 , 7, 1383-91	7.7	47
241	Bioorthogonal labeling with tetrazine-dyes for super-resolution microscopy. <i>Communications Biology</i> , 2019 , 2, 261	6.7	47
240	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, 2178-86	20.1	47
239	Defocused imaging of quantum-dot angular distribution of radiation. <i>Applied Physics Letters</i> , 2005 , 87, 101103	3.4	47
238	Fluorescent proteins for single-molecule fluorescence applications. <i>Journal of Biophotonics</i> , 2008 , 1, 74-82	3.1	46
237	Radiative and nonradiative rate fluctuations of single colloidal semiconductor nanocrystals. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 5174-8	3.4	46
236	Using photoinduced charge transfer reactions to study conformational dynamics of biopolymers at the single-molecule level. <i>Current Pharmaceutical Biotechnology</i> , 2004 , 5, 285-98	2.6	46
235	Super-Resolution Imaging of Molecular Emission Spectra and Single Molecule Spectral Fluctuations. <i>PLoS ONE</i> , 2016 , 11, e0147506	3.7	46
234	CD56 Is a Pathogen Recognition Receptor on Human Natural Killer Cells. <i>Scientific Reports</i> , 2017 , 7, 61384.9	4.9	45
233	C-terminal diversity within the p53 family accounts for differences in DNA binding and transcriptional activity. <i>Nucleic Acids Research</i> , 2008 , 36, 1900-12	20.1	45
232	Human autoantibodies to amphiphysin induce defective presynaptic vesicle dynamics and composition. <i>Brain</i> , 2016 , 139, 365-79	11.2	44

231	Investigating cellular structures at the nanoscale with organic fluorophores. <i>Chemistry and Biology</i> , 2013 , 20, 8-18		44
230	p73 poses a barrier to malignant transformation by limiting anchorage-independent growth. <i>EMBO Journal</i> , 2008 , 27, 792-803	13	44
229	Highly sensitive protease assay using fluorescence quenching of peptide probes based on photoinduced electron transfer. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 3798-801	16.4	44
228	Neue Wege in der Einzelmolekül-Fluoreszenzspektroskopie: Herausforderungen für die Chemie und Einfluss auf die Biologie. <i>Angewandte Chemie</i> , 2005 , 117, 2698-2728	3.6	44
227	Detection and characterization of single molecules in aqueous solution. <i>Applied Physics B: Lasers and Optics</i> , 1996 , 63, 517-523	1.9	44
226	Methylene blue- and thiol-based oxygen depletion for super-resolution imaging. <i>Analytical Chemistry</i> , 2013 , 85, 3393-400	7.8	43
225	Instant live-cell super-resolution imaging of cellular structures by nano-injection of fluorescent probes. <i>Nano Letters</i> , 2015 , 15, 1374-81	11.5	43
224	DNA-based molecular wires: multiple emission pathways of individual constructs. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 26349-53	3.4	43
223	The chlamydial organism <i>Simkania negevensis</i> forms ER vacuole contact sites and inhibits ER-stress. <i>Cellular Microbiology</i> , 2014 , 16, 1224-43	3.9	42
222	Diode laser based detection of single molecules in solutions. <i>Chemical Physics Letters</i> , 1996 , 254, 223-228	2.5	41
221	Hydrogen-bond driven loop-closure kinetics in unfolded polypeptide chains. <i>PLoS Computational Biology</i> , 2010 , 6, e1000645	5	40
220	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	3.6	40
219	Characterization of Plasma Membrane Ceramides by Super-Resolution Microscopy. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 6131-6135	16.4	39
218	Optimal Algorithm for Single-Molecule Identification with Time-Correlated Single-Photon Counting. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 48-53	2.8	39
217	A blueprint for cost-efficient localization microscopy. <i>ChemPhysChem</i> , 2014 , 15, 651-4	3.2	38
216	Hochauflösende Mikroskopie mit kleinen organischen Farbstoffen. <i>Angewandte Chemie</i> , 2009 , 121, 7036-7041	3.6	38
215	Subdiffraction-resolution fluorescence microscopy of myosin-actin motility. <i>ChemPhysChem</i> , 2010 , 11, 836-40	3.2	38
214	Hydrodynamic properties of human adhesion/growth-regulatory galectins studied by fluorescence correlation spectroscopy. <i>Biophysical Journal</i> , 2010 , 98, 3044-53	2.9	37

213	Subcellular distribution of the V-ATPase complex in plant cells, and in vivo localisation of the 100 kDa subunit VHA-a within the complex. <i>BMC Cell Biology</i> , 2004 , 5, 29		37
212	Quantifying protein densities on cell membranes using super-resolution optical fluctuation imaging. <i>Nature Communications</i> , 2017 , 8, 1731	17.4	36
211	Quantitative localization microscopy: effects of photophysics and labeling stoichiometry. <i>PLoS ONE</i> , 2015 , 10, e0127989	3.7	35
210	Reversible photoswitchable DRONPA-s monitors nucleocytoplasmic transport of an RNA-binding protein in transgenic plants. <i>Traffic</i> , 2011 , 12, 693-702	5.7	33
209	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	6.4	33
208	Synthesis of a Far-Red Photoactivatable Silicon-Containing Rhodamine for Super-Resolution Microscopy. <i>Angewandte Chemie</i> , 2016 , 128, 1755-1759	3.6	32
207	PET-FCS: probing rapid structural fluctuations of proteins and nucleic acids by single-molecule fluorescence quenching. <i>Methods in Molecular Biology</i> , 2014 , 1076, 597-615	1.4	31
206	Molecular mechanics force field parameterization of the fluorescent probe rhodamine 6G using automated frequency matching. <i>Journal of Computational Chemistry</i> , 2003 , 24, 632-9	3.5	31
205	Parallel experimental design and multivariate analysis provides efficient screening of cell culture media supplements to improve biosimilar product quality. <i>Biotechnology and Bioengineering</i> , 2017 , 114, 1448-1458	4.9	30
204	New fluorescent labels for time-resolved detection of biomolecules. <i>Journal of Fluorescence</i> , 1993 , 3, 131-9	2.4	30
203	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	16.4	30
202	Spatio-temporal remodeling of functional membrane microdomains organizes the signaling networks of a bacterium. <i>PLoS Genetics</i> , 2015 , 11, e1005140	6	29
201	Superresolution optical fluctuation imaging (SOFI). <i>Advances in Experimental Medicine and Biology</i> , 2012 , 733, 17-21	3.6	29
200	Long-term follow-up of children conditioned with Treosulfan: German and Austrian experience. <i>Bone Marrow Transplantation</i> , 2013 , 48, 491-501	4.4	29
199	Single-molecule fluorescence resonance energy transfer in nanopipets: improving distance resolution and concentration range. <i>Analytical Chemistry</i> , 2007 , 79, 7367-75	7.8	29
198	UV fluorescence lifetime imaging microscopy: a label-free method for detection and quantification of protein interactions. <i>Analytical Chemistry</i> , 2006 , 78, 663-9	7.8	29
197	Identification of single fluorescently labelled mononucleotide molecules in solution by spectrally resolved time-correlated single-photon counting. <i>Applied Physics B: Lasers and Optics</i> , 2000 , 71, 765-771	1.9	29
196	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	3.9	29

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194	Substituent Effects on Redox Properties and Photoinduced Electron Transfer in Isoxazolo-Fullerenes 2000 , 2000, 455-465		28
193	Revealing the adsorption mechanisms of nitroxides on ultrapure, metallicity-sorted carbon nanotubes. <i>ACS Nano</i> , 2014 , 8, 1375-83	16.7	27
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