Christian Blum

List of Publications by Year in Descending Order

58 papers	1,742 citations	21 h-index	41 g-index
68 ext. papers	2,159 ext. citations	6.1 avg, IF	4.58 L-index

#	Paper	IF	Citations
58	Interactions between SARS-CoV-2 N-Protein and α-Synuclein Accelerate Amyloid Formation. *ACS Chemical Neuroscience*, **2021**,	5.7	17
57	The Localization of Alpha-synuclein in the Endocytic Pathway. *Neuroscience*, **2021**, 457, 186-195	3.9	9
56	Nanoplastic sizes and numbers: quantification by single particle tracking. *Environmental Science: Nano*, **2021**, 8, 723-730	7.1	12
55	Optimizing fluorophore density for single virus counting: a photophysical approach. *Methods and Applications in Fluorescence*, **2021**, 9, 025001	3.1	2
54	Quantitative Determination of Dark Chromophore Population Explains the Apparent Low Quantum Yield of Red Fluorescent Proteins. *Journal of Physical Chemistry B*, **2020**, 124, 1383-1391	3.4	8
53	Cooperation of Helix Insertion and Lateral Pressure to Remodel Membranes. *Biomacromolecules*, **2019**, 20, 1217-1223	6.9	12
52	Shaping membranes with disordered proteins. *Archives of Biochemistry and Biophysics*, **2019**, 677, 108163	4.1	13
51	Photonic emitter manipulation to sample nanoscale topography. *Optics Express*, **2019**, 27, 11698-11708	3.3	1
50	Different Conformational Subensembles of the Intrinsically Disordered Protein α-Synuclein in Cells. *Journal of Physical Chemistry Letters*, **2018**, 9, 1249-1253	6.4	24
49	Polymorph-specific distribution of binding sites determines thioflavin-T fluorescence intensity in α-synuclein fibrils. *Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis*, **2018**, 25, 189-196	2.7	28
48	Controlling Protein Surface Orientation by Strategic Placement of Oligo-Histidine Tags. *ACS Nano*, **2017**, 11, 9068-9083	16.7	31
47	Size-selective analyte detection with a Young interferometer sensor using multiple wavelengths. *Optics Express*, **2016**, 24, 8594-619	3.3	2
46	Monitoring the Switching of Single BSA-ATTO 488 Molecules Covalently End-Attached to a pH-Responsive PAA Brush. *Langmuir*, **2016**, 32, 8803-11	4	4
45	The number of α-synuclein proteins per vesicle gives insights into its physiological function. *Scientific Reports*, **2016**, 6, 30658	4.9	19
44	Direct patterning of nanoparticles and biomolecules by liquid nanodispensing. *Nanoscale*, **2015**, 7, 4497-504	7.7	7
43	Alpha-synuclein amyloid oligomers act as multivalent nanoparticles to cause hemifusion in negatively charged vesicles. *Small*, **2015**, 11, 2257-62	11	9
42	Predicting the loading of virus-like particles with fluorescent proteins. *Biomacromolecules*, **2014**, 15, 558-63	6.9	52

41	Single-Molecule Spectroscopy **2014**, 821-876		1
40	Excitation Spectra and Stokes Shift Measurements of Single Organic Dyes at Room Temperature. *Journal of Physical Chemistry Letters*, **2014**, 5, 3259-64	6.4	21
39	Elucidating the aggregation number of dopamine-induced □synuclein oligomeric assemblies. *Biophysical Journal*, **2014**, 106, 440-6	2.9	17
38	Photosynthesis in a different light: spectro-microscopy for in vivo characterization of chloroplasts. *Frontiers in Plant Science*, **2014**, 5, 292	6.2	3
37	Multimodal fluorescence imaging spectroscopy. *Methods in Molecular Biology*, **2014**, 1076, 521-36	1.4	1
36	Blinking statistics of colloidal quantum dots at different excitation wavelengths. *RSC Advances*, **2013**, 3, 17440	3.7	9
35	Imaging Through Scattering Media **2013**,		2
34	Nanophotonic control of the F□ster resonance energy transfer efficiency. *Physical Review Letters*, **2012**, 109, 203601	7.4	109
33	Non-invasive imaging through opaque scattering layers. *Nature*, **2012**, 491, 232-4	50.4	557
32	Patterning perylenes on surfaces using thiol□ne chemistry. *Journal of Materials Chemistry*, **2012**, 22, 16606		9
31	Molecular Composition of Sub-stoichiometrically Labeled □Synuclein Oligomers Determined by Single-Molecule Photobleaching. *Angewandte Chemie*, **2012**, 124, 8951-8954	3.6	8
30	Molecular composition of sub-stoichiometrically labeled □synuclein oligomers determined by single-molecule photobleaching. *Angewandte Chemie - International Edition*, **2012**, 51, 8821-4	16.4	64
29	Spectral Versatility of Fluorescent Proteins Observed on the Single Molecule Level. *Springer Series on Fluorescence*, **2011**, 217-240	0.5	
28	Room temperature excitation spectroscopy of single quantum dots. *Beilstein Journal of Nanotechnology*, **2011**, 2, 516-24	3	9
27	Dark proteins disturb multichromophore coupling in tetrameric fluorescent proteins. *Journal of Biophotonics*, **2011**, 4, 114-21	3.1	3
26	Interactions of Perylene Bisimide in the One-Dimensional Channels of Zeolite L. *Journal of Physical Chemistry C*, **2011**, 115, 5974-5988	3.8	52
25	Microspectroscopic analysis of green fluorescent proteins infiltrated into mesoporous silica nanochannels. *Journal of Colloid and Interface Science*, **2011**, 356, 123-30	9.3	15
24	Visualizing resonance energy transfer in supramolecular surface patterns of □CD-functionalized quantum dot hosts and organic dye guests by fluorescence lifetime imaging. *Small*, **2010**, 6, 2870-6	11	12

23	Fluorescence Lifetime Spectroscopy and Imaging of Visible Fluorescent Proteins **2009**, 147-176		14
22	Single-molecule spectral dynamics at room temperature. *Molecular Physics*, **2009**, 107, 1923-1942	1.7	22
21	Modulation of protein dimerization by a supramolecular host-guest system. *Chemistry - A European Journal*, **2009**, 15, 8779-90	4.8	34
20	Single-molecule spectroscopy of fluorescent proteins. *Analytical and Bioanalytical Chemistry*, **2009**, 393, 527-41	4.4	24
19	Method to deterministically study photonic nanostructures in different experimental instruments. *Journal of Microscopy*, **2009**, 233, 18-23	1.9	1
18	Temperature-modulated quenching of quantum dots covalently coupled to chain ends of poly(N-isopropyl acrylamide) brushes on gold. *Nanotechnology*, **2009**, 20, 185501	3.4	29
17	Expression of sensitized Eu(3+) luminescence at a multivalent interface. *Journal of the American Chemical Society*, **2009**, 131, 12567-9	16.4	44
16	FRET pair printing of fluorescent proteins. *Langmuir*, **2009**, 25, 7019-24	4	7
15	Spectral emission imaging to map photonic properties below the crystal surface of 3D photonic crystals. *Journal of the Optical Society of America B: Optical Physics*, **2009**, 26, 2101	1.7	2
14	Multimode microscopy: spectral and lifetime imaging. *Journal of the Royal Society Interface*, **2009**, 6,	4.1	22
13	Manipulation of the local density of photonic states to elucidate fluorescent protein emission rates. *Physical Chemistry Chemical Physics*, **2009**, 11, 2525-31	3.6	15
12	Time, space, and spectrally resolved studies on J-aggregate interactions in zeolite L nanochannels. *Journal of the American Chemical Society*, **2008**, 130, 10970-6	16.4	88
11	Color control of natural fluorescent proteins by photonic crystals. *Small*, **2008**, 4, 492-6	11	40
10	Spectral versatility of single reef coral fluorescent proteins detected by spectrally-resolved single molecule spectroscopy. *ChemPhysChem*, **2008**, 9, 310-5	3.2	12
9	New insights into the photophysics of DsRed by multiparameter spectroscopy on single proteins. *Journal of Physical Chemistry B*, **2008**, 112, 7669-74	3.4	25
8	Single oligomer spectra probe chromophore nanoenvironments of tetrameric fluorescent proteins. *Journal of the American Chemical Society*, **2006**, 128, 8664-70	16.4	20
7	Correlation of emission intensity and spectral diffusion in room temperature single-molecule spectroscopy. *ChemPhysChem*, **2005**, 6, 1242-6	3.2	21
6	Two and multilevel spectral switching of single molecules in polystyrene at room temperature. *Chemical Physics*, **2004**, 300, 153-164	2.3	27

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5	Room temperature spectrally resolved single-molecule spectroscopy reveals new spectral forms and photophysical versatility of aequorea green fluorescent protein variants. *Biophysical Journal*, **2004**, 87, 4172-9	2.9	34
4	Single molecule fluorescence spectroscopy of mutants of the Discosoma red fluorescent protein DsRed. *Chemical Physics Letters*, **2002**, 362, 355-361	2.5	13
3	Discrimination and Interpretation of Spectral Phenomena by Room-Temperature Single-Molecule Spectroscopy. *Journal of Physical Chemistry A*, **2001**, 105, 6983-6990	2.8	60
2	Intrinsic conformer jumps observed by single molecule spectroscopy in real time. *Chemical Physics Letters*, **2000**, 325, 196-202	2.5	42
1	Interactions between SARS-CoV-2 N-protein and □synuclein accelerate amyloid formation		2