Julie S Biteen

List of Publications by Year in Descending Order

74 papers	3,264 citations	28 h-index	56 g-index
96 ext. papers	3,863 ext. citations	6.6 avg, IF	5.41 L-index

#	Paper	IF	Citations
74	Tribute to W. E. Moerner.. *Journal of Physical Chemistry B*, **2022**, 126, 1157-1158	3.4	
73	SMAUG: Analyzing single-molecule tracks with nonparametric Bayesian statistics. *Methods*, **2021**, 193, 16-26	4.6	19
72	New Orange Ligand-Dependent Fluorescent Reporter for Anaerobic Imaging. *ACS Chemical Biology*, **2021**, 16, 2109-2115	4.9	2
71	The emergence of phase separation as an organizing principle in bacteria. *Biophysical Journal*, **2021**, 120, 1123-1138	2.9	35
70	Super-Resolution Characterization of Heterogeneous Light-Matter Interactions between Single Dye Molecules and Plasmonic Nanoparticles. *Analytical Chemistry*, **2021**, 93, 430-444	7.8	3
69	NOBIAS: Analyzing anomalous diffusion in single-molecule tracks with nonparametric Bayesian inference.. *Frontiers in Bioinformatics*, **2021**, 1,		1
68	Independent Promoter Recognition by TcpP Precedes Cooperative Promoter Activation by TcpP and ToxR. *MBio*, **2021**, 12, e0221321	7.8	0
67	Polyphosphate drives bacterial heterochromatin formation.. *Science Advances*, **2021**, 7, eabk0233	14.3	5
66	Single-molecule Tracking Reveals Multi-state Dynamics of a Bacterial DNA Methyltransferase in Vivo. *Microscopy and Microanalysis*, **2020**, 26, 1590-1591	0.5	
65	Imaging living obligate anaerobic bacteria with bilin-binding fluorescent proteins. *Current Research in Microbial Sciences*, **2020**, 1, 1-6	3.3	8
64	BR-Bodies Provide Selectively Permeable Condensates that Stimulate mRNA Decay and Prevent Release of Decay Intermediates. *Molecular Cell*, **2020**, 78, 670-682.e8	17.6	28
63	Nutrient-dependent morphological variability of. *Microbiology (United Kingdom)*, **2020**, 166, 624-628	2.9	3
62	Spectral Reshaping of Single Dye Molecules Coupled to Single Plasmonic Nanoparticles. *Journal of Physical Chemistry Letters*, **2019**, 10, 5764-5769	6.4	6
61	Guidelines for DNA recombination and repair studies: Mechanistic assays of DNA repair processes. *Microbial Cell*, **2019**, 6, 65-101	3.9	5
60	Dynamic Exchange of Two Essential DNA Polymerases during Replication and after Fork Arrest. *Biophysical Journal*, **2019**, 116, 684-693	2.9	8
59	SMALL-LABS: Measuring Single-Molecule Intensity and Position in Obscuring Backgrounds. *Biophysical Journal*, **2019**, 116, 975-982	2.9	12
58	Rotation of Single-Molecule Emission Polarization by Plasmonic Nanorods. *Journal of Physical Chemistry Letters*, **2019**, 10, 5047-5054	6.4	9

57	Extending fluorescence microscopy into anaerobic environments. *Current Opinion in Chemical Biology*, **2019**, 51, 98-104	9.7	22
56	Interplay of Nanoparticle Resonance Frequency and Array Surface Coverage in Live-Cell Plasmon-Enhanced Single-Molecule Imaging. *Journal of Physical Chemistry C*, **2018**, 122, 5705-5709	3.8	6
55	The Starch Utilization System Assembles around Stationary Starch-Binding Proteins. *Biophysical Journal*, **2018**, 115, 242-250	2.9	28
54	Visualizing bacterial DNA replication and repair with molecular resolution. *Current Opinion in Microbiology*, **2018**, 43, 38-45	7.9	16
53	Mapping Forbidden Emission to Structure in Self-Assembled Organic Nanoparticles. *Journal of the American Chemical Society*, **2018**, 140, 15827-15841	16.4	19
52	Measuring molecular motions inside single cells with improved analysis of single-particle trajectories. *Chemical Physics Letters*, **2017**, 674, 173-178	2.5	6
51	Super-Resolving the Actual Position of Single Fluorescent Molecules Coupled to a Plasmonic Nanoantenna. *ACS Nano*, **2017**, 11, 8978-8987	16.7	24
50	Mismatch repair in Gram-positive bacteria. *Research in Microbiology*, **2016**, 167, 4-12	4	31
49	Plasmon-Enhanced Fluorescence from Single Proteins in Living Bacteria. *Journal of Physical Chemistry C*, **2016**, 120, 20512-20517	3.8	24
48	Wavelength-Dependent Super-resolution Images of Dye Molecules Coupled to Plasmonic Nanotriangles. *ACS Photonics*, **2016**, 3, 1733-1740	6.3	23
47	Tools for the Microbiome: Nano and Beyond. *ACS Nano*, **2016**, 10, 6-37	16.7	99
46	Addressing the Requirements of High-Sensitivity Single-Molecule Imaging of Low-Copy-Number Proteins in Bacteria. *ChemPhysChem*, **2016**, 17, 1435-40	3.2	11
45	Single-Molecule DNA Polymerase Dynamics at a Bacterial Replisome in Live Cells. *Biophysical Journal*, **2016**, 111, 2562-2569	2.9	36
44	Resolving Fast, Confined Diffusion in Bacteria with Image Correlation Spectroscopy. *Biophysical Journal*, **2016**, 110, 2241-51	2.9	10
43	Nanoscopic Cellular Imaging: Confinement Broadens Understanding. *ACS Nano*, **2016**, 10, 8143-53	16.7	12
42	Single-molecule super-resolution microscopy reveals how light couples to a plasmonic nanoantenna on the nanometer scale. *Nano Letters*, **2015**, 15, 2662-70	11.5	80
41	Single-molecule motions and interactions in live cells reveal target search dynamics in mismatch repair. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E6898-906	11.5	47
40	Single-molecule tracking in live Vibrio cholerae reveals that ToxR recruits the membrane-bound virulence regulator TcpP to the toxT promoter. *Molecular Microbiology*, **2015**, 96, 4-13	4.1	42

39	Unveiling the inner workings of live bacteria using super-resolution microscopy. *Analytical Chemistry*, **2015**, 87, 42-63	7.8	45
38	Super-Resolving the Distance-Dependent Plasmon-Enhanced Fluorescence of Single Dye and Fluorescent Protein Molecules. *Journal of Physical Chemistry C*, **2015**, 119, 19350-19358	3.8	34
37	Top-hat and asymmetric Gaussian-based fitting functions for quantifying directional single-molecule motion. *ChemPhysChem*, **2014**, 15, 712-20	3.2	11
36	Self-organization of plasmonic and excitonic nanoparticles into resonant chiral supraparticle assemblies. *Nano Letters*, **2014**, 14, 6799-810	11.5	55
35	Plasmon-Enhanced Brightness and Photostability from Single Fluorescent Proteins Coupled to Gold Nanorods. *Journal of Physical Chemistry C*, **2014**, 118, 15027-15035	3.8	40
34	Imaging live cells at the nanometer-scale with single-molecule microscopy: obstacles and achievements in experiment optimization for microbiology. *Molecules*, **2014**, 19, 12116-49	4.8	38
33	Superresolution imaging captures carbohydrate utilization dynamics in human gut symbionts. *MBio*, **2014**, 5, e02172	7.8	36
32	Intracellular dynamics of bacterial proteins are revealed by super-resolution microscopy. *Biophysical Journal*, **2013**, 105, 1547-8	2.9	1
31	Super-resolution imaging of PDMS nanochannels by single-molecule micelle-assisted blink microscopy. *Journal of Physical Chemistry B*, **2013**, 117, 4406-11	3.4	11
30	Plasmon-enhanced emission from single fluorescent proteins **2013**,		3
29	Single-molecule imaging can be achieved in live obligate anaerobic bacteria **2013**,		5
28	Extending the tools of single-molecule fluorescence imaging to problems in microbiology. *Molecular Microbiology*, **2012**, 85, 1-4	4.1	2
27	Three-dimensional super-resolution imaging of the midplane protein FtsZ in live Caulobacter crescentus cells using astigmatism. *ChemPhysChem*, **2012**, 13, 1007-12	3.2	83
26	Heterogeneous single-molecule diffusion in one-, two-, and three-dimensional microporous coordination polymers: directional, trapped, and immobile guests. *Nano Letters*, **2012**, 12, 3080-5	11.5	48
25	Exploring protein superstructures and dynamics in live bacterial cells using single-molecule and superresolution imaging. *Methods in Molecular Biology*, **2011**, 783, 139-58	1.4	9
24	Single-molecule and superresolution imaging in live bacteria cells. *Cold Spring Harbor Perspectives in Biology*, **2010**, 2, a000448	10.2	41
23	Molecules and methods for super-resolution imaging. *Methods in Enzymology*, **2010**, 475, 27-59	1.7	44
22	Superresolution imaging in live Caulobacter crescentus cells using photoswitchable enhanced yellow fluorescent protein **2009**,		10

21	Three-dimensional, single-molecule fluorescence imaging beyond the diffraction limit by using a double-helix point spread function. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 2995-9	11.5	700
20	Super-resolution imaging in live Caulobacter crescentus cells using photoswitchable EYFP. *Nature Methods*, **2008**, 5, 947-9	21.6	294
19	Cy3-Cy5 covalent heterodimers for single-molecule photoswitching. *Journal of Physical Chemistry B*, **2008**, 112, 11878-80	3.4	63
18	Passivation of GaAs nanocrystals by chemical functionalization. *Journal of the American Chemical Society*, **2008**, 130, 955-64	16.4	12
17	Phosphine Functionalization of GaAs(111)A Surfaces. *Journal of Physical Chemistry C*, **2008**, 112, 18467-18473	3.8	11
16	Superresolution imaging in live bacterial cells by single-molecule active-control microscopy **2008**,		1
15	Plasmon-Enhanced Photoluminescence of Silicon Quantum Dots: Simulation and Experiment. *Journal of Physical Chemistry C*, **2007**, 111, 13372-13377	3.8	89
14	Polarization-selective plasmon-enhanced silicon quantum-dot luminescence. *Nano Letters*, **2006**, 6, 2622-5	11.5	187
13	Spectral tuning of plasmon-enhanced silicon quantum dot luminescence. *Applied Physics Letters*, **2006**, 88, 131109	3.4	170
12	High-resolution X-ray photoelectron spectroscopy of chlorine-terminated GaAs(111)A surfaces. *Journal of Physical Chemistry B*, **2006**, 110, 15641-4	3.4	17
11	High-resolution soft X-ray photoelectron spectroscopic studies and scanning auger microscopy studies of the air oxidation of alkylated silicon(111) surfaces. *Journal of Physical Chemistry B*, **2006**, 110, 23450-9	3.4	56
10	Enhanced radiative emission rate and quantum efficiency in coupled silicon nanocrystal-nanostructured gold emitters. *Nano Letters*, **2005**, 5, 1768-73	11.5	206
9	Enhanced Radiative Emission Rate and Quantum Efficiency in Coupled Silicon Nanocrystal-Nanostructured Gold Emitters. *Nano Letters*, **2005**, 5, 2116-2116	11.5	3
8	High-resolution X-ray photoelectron spectroscopic studies of alkylated silicon(111) surfaces. *Journal of Physical Chemistry B*, **2005**, 109, 3930-7	3.4	95
7	Quenching of Si nanocrystal photoluminescence by doping with gold or phosphorous. *Journal of Luminescence*, **2005**, 114, 137-144	3.8	44
6	Size-dependent oxygen-related electronic states in silicon nanocrystals. *Applied Physics Letters*, **2004**, 84, 5389-5391	3.4	81
5	Closed-loop quantum control utilizing time domain maps. *Chemical Physics*, **2003**, 290, 35-45	2.3	1
4	Quantum optimal quantum control field design using logarithmic maps. *Chemical Physics Letters*, **2001**, 348, 440-446	2.5	1

3	The emergence of phase separation as an organizing principle in bacteria	2
2	SMAUG: Analyzing single-molecule tracks with nonparametric Bayesian statistics	4
1	HP1 oligomerization compensates for low-affinity H3K9me recognition and provides a tunable mechanism for heterochromatin-specific localization	1