

Julie S Biteen

List of Publications by Citations

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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 | Three-dimensional, single-molecule fluorescence imaging beyond the diffraction limit by using a double-helix point spread function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 2995-9 | 11.5 | 700 |
| 73 | Super-resolution imaging in live <i>Caulobacter crescentus</i> cells using photoswitchable EYFP. <i>Nature Methods</i> , 2008 , 5, 947-9 | 21.6 | 294 |
| 72 | Enhanced radiative emission rate and quantum efficiency in coupled silicon nanocrystal-nanostructured gold emitters. <i>Nano Letters</i> , 2005 , 5, 1768-73 | 11.5 | 206 |
| 71 | Polarization-selective plasmon-enhanced silicon quantum-dot luminescence. <i>Nano Letters</i> , 2006 , 6, 2622-5 | 11.5 | 187 |
| 70 | Spectral tuning of plasmon-enhanced silicon quantum dot luminescence. <i>Applied Physics Letters</i> , 2006 , 88, 131109 | 3.4 | 170 |
| 69 | Tools for the Microbiome: Nano and Beyond. <i>ACS Nano</i> , 2016 , 10, 6-37 | 16.7 | 99 |
| 68 | High-resolution X-ray photoelectron spectroscopic studies of alkylated silicon(111) surfaces. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 3930-7 | 3.4 | 95 |
| 67 | Plasmon-Enhanced Photoluminescence of Silicon Quantum Dots: Simulation and Experiment. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 13372-13377 | 3.8 | 89 |
| 66 | Three-dimensional super-resolution imaging of the midplane protein FtsZ in live <i>Caulobacter crescentus</i> cells using astigmatism. <i>ChemPhysChem</i> , 2012 , 13, 1007-12 | 3.2 | 83 |
| 65 | Size-dependent oxygen-related electronic states in silicon nanocrystals. <i>Applied Physics Letters</i> , 2004 , 84, 5389-5391 | 3.4 | 81 |
| 64 | Single-molecule super-resolution microscopy reveals how light couples to a plasmonic nanoantenna on the nanometer scale. <i>Nano Letters</i> , 2015 , 15, 2662-70 | 11.5 | 80 |
| 63 | Cy3-Cy5 covalent heterodimers for single-molecule photoswitching. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 11878-80 | 3.4 | 63 |
| 62 | High-resolution soft X-ray photoelectron spectroscopic studies and scanning auger microscopy studies of the air oxidation of alkylated silicon(111) surfaces. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 23450-9 | 3.4 | 56 |
| 61 | Self-organization of plasmonic and excitonic nanoparticles into resonant chiral supraparticle assemblies. <i>Nano Letters</i> , 2014 , 14, 6799-810 | 11.5 | 55 |
| 60 | Heterogeneous single-molecule diffusion in one-, two-, and three-dimensional microporous coordination polymers: directional, trapped, and immobile guests. <i>Nano Letters</i> , 2012 , 12, 3080-5 | 11.5 | 48 |
| 59 | Single-molecule motions and interactions in live cells reveal target search dynamics in mismatch repair. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E6898-906 | 11.5 | 47 |
| 58 | Unveiling the inner workings of live bacteria using super-resolution microscopy. <i>Analytical Chemistry</i> , 2015 , 87, 42-63 | 7.8 | 45 |

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| 57 | Molecules and methods for super-resolution imaging. <i>Methods in Enzymology</i> , 2010 , 475, 27-59 | 1.7 | 44 |
| 56 | Quenching of Si nanocrystal photoluminescence by doping with gold or phosphorous. <i>Journal of Luminescence</i> , 2005 , 114, 137-144 | 3.8 | 44 |
| 55 | Single-molecule tracking in live <i>Vibrio cholerae</i> reveals that ToxR recruits the membrane-bound virulence regulator TcpP to the toxT promoter. <i>Molecular Microbiology</i> , 2015 , 96, 4-13 | 4.1 | 42 |
| 54 | Single-molecule and superresolution imaging in live bacteria cells. <i>Cold Spring Harbor Perspectives in Biology</i> , 2010 , 2, a000448 | 10.2 | 41 |
| 53 | Plasmon-Enhanced Brightness and Photostability from Single Fluorescent Proteins Coupled to Gold Nanorods. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 15027-15035 | 3.8 | 40 |
| 52 | Imaging live cells at the nanometer-scale with single-molecule microscopy: obstacles and achievements in experiment optimization for microbiology. <i>Molecules</i> , 2014 , 19, 12116-49 | 4.8 | 38 |
| 51 | Superresolution imaging captures carbohydrate utilization dynamics in human gut symbionts. <i>MBio</i> , 2014 , 5, e02172 | 7.8 | 36 |
| 50 | Single-Molecule DNA Polymerase Dynamics at a Bacterial Replisome in Live Cells. <i>Biophysical Journal</i> , 2016 , 111, 2562-2569 | 2.9 | 36 |
| 49 | The emergence of phase separation as an organizing principle in bacteria. <i>Biophysical Journal</i> , 2021 , 120, 1123-1138 | 2.9 | 35 |
| 48 | Super-Resolving the Distance-Dependent Plasmon-Enhanced Fluorescence of Single Dye and Fluorescent Protein Molecules. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 19350-19358 | 3.8 | 34 |
| 47 | Mismatch repair in Gram-positive bacteria. <i>Research in Microbiology</i> , 2016 , 167, 4-12 | 4 | 31 |
| 46 | BR-Bodies Provide Selectively Permeable Condensates that Stimulate mRNA Decay and Prevent Release of Decay Intermediates. <i>Molecular Cell</i> , 2020 , 78, 670-682.e8 | 17.6 | 28 |
| 45 | The Starch Utilization System Assembles around Stationary Starch-Binding Proteins. <i>Biophysical Journal</i> , 2018 , 115, 242-250 | 2.9 | 28 |
| 44 | Plasmon-Enhanced Fluorescence from Single Proteins in Living Bacteria. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 20512-20517 | 3.8 | 24 |
| 43 | Super-Resolving the Actual Position of Single Fluorescent Molecules Coupled to a Plasmonic Nanoantenna. <i>ACS Nano</i> , 2017 , 11, 8978-8987 | 16.7 | 24 |
| 42 | Wavelength-Dependent Super-resolution Images of Dye Molecules Coupled to Plasmonic Nanotriangles. <i>ACS Photonics</i> , 2016 , 3, 1733-1740 | 6.3 | 23 |
| 41 | Extending fluorescence microscopy into anaerobic environments. <i>Current Opinion in Chemical Biology</i> , 2019 , 51, 98-104 | 9.7 | 22 |
| 40 | SMAUG: Analyzing single-molecule tracks with nonparametric Bayesian statistics. <i>Methods</i> , 2021 , 193, 16-26 | 4.6 | 19 |

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| 39 | Mapping Forbidden Emission to Structure in Self-Assembled Organic Nanoparticles. <i>Journal of the American Chemical Society</i> , 2018 , 140, 15827-15841 | 16.4 | 19 |
| 38 | High-resolution X-ray photoelectron spectroscopy of chlorine-terminated GaAs(111)A surfaces. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 15641-4 | 3.4 | 17 |
| 37 | Visualizing bacterial DNA replication and repair with molecular resolution. <i>Current Opinion in Microbiology</i> , 2018 , 43, 38-45 | 7.9 | 16 |
| 36 | SMALL-LABS: Measuring Single-Molecule Intensity and Position in Obscuring Backgrounds. <i>Biophysical Journal</i> , 2019 , 116, 975-982 | 2.9 | 12 |
| 35 | Passivation of GaAs nanocrystals by chemical functionalization. <i>Journal of the American Chemical Society</i> , 2008 , 130, 955-64 | 16.4 | 12 |
| 34 | Nanosopic Cellular Imaging: Confinement Broadens Understanding. <i>ACS Nano</i> , 2016 , 10, 8143-53 | 16.7 | 12 |
| 33 | Top-hat and asymmetric Gaussian-based fitting functions for quantifying directional single-molecule motion. <i>ChemPhysChem</i> , 2014 , 15, 712-20 | 3.2 | 11 |
| 32 | Super-resolution imaging of PDMS nanochannels by single-molecule micelle-assisted blink microscopy. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 4406-11 | 3.4 | 11 |
| 31 | Phosphine Functionalization of GaAs(111)A Surfaces. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 18467-18473 | 3.8 | 11 |
| 30 | Addressing the Requirements of High-Sensitivity Single-Molecule Imaging of Low-Copy-Number Proteins in Bacteria. <i>ChemPhysChem</i> , 2016 , 17, 1435-40 | 3.2 | 11 |
| 29 | Superresolution imaging in live <i>Caulobacter crescentus</i> cells using photoswitchable enhanced yellow fluorescent protein 2009 , | | 10 |
| 28 | Resolving Fast, Confined Diffusion in Bacteria with Image Correlation Spectroscopy. <i>Biophysical Journal</i> , 2016 , 110, 2241-51 | 2.9 | 10 |
| 27 | Rotation of Single-Molecule Emission Polarization by Plasmonic Nanorods. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 5047-5054 | 6.4 | 9 |
| 26 | Exploring protein superstructures and dynamics in live bacterial cells using single-molecule and superresolution imaging. <i>Methods in Molecular Biology</i> , 2011 , 783, 139-58 | 1.4 | 9 |
| 25 | Dynamic Exchange of Two Essential DNA Polymerases during Replication and after Fork Arrest. <i>Biophysical Journal</i> , 2019 , 116, 684-693 | 2.9 | 8 |
| 24 | Imaging living obligate anaerobic bacteria with bilin-binding fluorescent proteins. <i>Current Research in Microbial Sciences</i> , 2020 , 1, 1-6 | 3.3 | 8 |
| 23 | Measuring molecular motions inside single cells with improved analysis of single-particle trajectories. <i>Chemical Physics Letters</i> , 2017 , 674, 173-178 | 2.5 | 6 |
| 22 | Spectral Reshaping of Single Dye Molecules Coupled to Single Plasmonic Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 5764-5769 | 6.4 | 6 |

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| 21 | Interplay of Nanoparticle Resonance Frequency and Array Surface Coverage in Live-Cell Plasmon-Enhanced Single-Molecule Imaging. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 5705-5709 | 3.8 | 6 |
| 20 | Guidelines for DNA recombination and repair studies: Mechanistic assays of DNA repair processes. <i>Microbial Cell</i> , 2019 , 6, 65-101 | 3.9 | 5 |
| 19 | Single-molecule imaging can be achieved in live obligate anaerobic bacteria 2013 , | | 5 |
| 18 | Polyphosphate drives bacterial heterochromatin formation.. <i>Science Advances</i> , 2021 , 7, eabk0233 | 14.3 | 5 |
| 17 | SMAUG: Analyzing single-molecule tracks with nonparametric Bayesian statistics | | 4 |
| 16 | Plasmon-enhanced emission from single fluorescent proteins 2013 , | | 3 |
| 15 | Enhanced Radiative Emission Rate and Quantum Efficiency in Coupled Silicon Nanocrystal-Nanostructured Gold Emitters. <i>Nano Letters</i> , 2005 , 5, 2116-2116 | 11.5 | 3 |
| 14 | Nutrient-dependent morphological variability of. <i>Microbiology (United Kingdom)</i> , 2020 , 166, 624-628 | 2.9 | 3 |
| 13 | Super-Resolution Characterization of Heterogeneous Light-Matter Interactions between Single Dye Molecules and Plasmonic Nanoparticles. <i>Analytical Chemistry</i> , 2021 , 93, 430-444 | 7.8 | 3 |
| 12 | Extending the tools of single-molecule fluorescence imaging to problems in microbiology. <i>Molecular Microbiology</i> , 2012 , 85, 1-4 | 4.1 | 2 |
| 11 | New Orange Ligand-Dependent Fluorescent Reporter for Anaerobic Imaging. <i>ACS Chemical Biology</i> , 2021 , 16, 2109-2115 | 4.9 | 2 |
| 10 | The emergence of phase separation as an organizing principle in bacteria | | 2 |
| 9 | Intracellular dynamics of bacterial proteins are revealed by super-resolution microscopy. <i>Biophysical Journal</i> , 2013 , 105, 1547-8 | 2.9 | 1 |
| 8 | Superresolution imaging in live bacterial cells by single-molecule active-control microscopy 2008 , | | 1 |
| 7 | Closed-loop quantum control utilizing time domain maps. <i>Chemical Physics</i> , 2003 , 290, 35-45 | 2.3 | 1 |
| 6 | Quantum optimal quantum control field design using logarithmic maps. <i>Chemical Physics Letters</i> , 2001 , 348, 440-446 | 2.5 | 1 |
| 5 | HP1 oligomerization compensates for low-affinity H3K9me recognition and provides a tunable mechanism for heterochromatin-specific localization | | 1 |
| 4 | NOBIAS: Analyzing anomalous diffusion in single-molecule tracks with nonparametric Bayesian inference.. <i>Frontiers in Bioinformatics</i> , 2021 , 1, | | 1 |

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| 3 | Independent Promoter Recognition by TcpP Precedes Cooperative Promoter Activation by TcpP and ToxR. <i>MBio</i> , 2021 , 12, e0221321 | 7.8 | o |
| 2 | Single-molecule Tracking Reveals Multi-state Dynamics of a Bacterial DNA Methyltransferase in Vivo. <i>Microscopy and Microanalysis</i> , 2020 , 26, 1590-1591 | 0.5 | |
| 1 | Tribute to W. E. Moerner.. <i>Journal of Physical Chemistry B</i> , 2022 , 126, 1157-1158 | 3.4 | |