

Tae-Young Yoon

List of Publications by Year in descending order

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Version: 2024-02-01

79
papers

2,714
citations

201674

27
h-index

189892

50
g-index

87
all docs

87
docs citations

87
times ranked

3974
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Reconstruction of LPS Transfer Cascade Reveals Structural Determinants within LBP, CD14, and TLR4-MD2 for Efficient LPS Recognition and Transfer. <i>Immunity</i> , 2017, 46, 38-50. | 14.3 | 274 |
| 2 | Multiple intermediates in SNARE-induced membrane fusion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 19731-19736. | 7.1 | 207 |
| 3 | Microfluidic Synthesis of Hybrid Nanoparticles with Controlled Lipid Layers: Understanding Flexibility-Regulated Cell-Nanoparticle Interaction. <i>ACS Nano</i> , 2015, 9, 9912-9921. | 14.6 | 163 |
| 4 | MutS switches between two fundamentally distinct clamps during mismatch repair. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 379-385. | 8.2 | 120 |
| 5 | Dynamic Ca ²⁺ -Dependent Stimulation of Vesicle Fusion by Membrane-Anchored Synaptotagmin 1. <i>Science</i> , 2010, 328, 760-763. | 12.6 | 117 |
| 6 | SNARE complex assembly and disassembly. <i>Current Biology</i> , 2018, 28, R397-R401. | 3.9 | 116 |
| 7 | Complexin and Ca ²⁺ stimulate SNARE-mediated membrane fusion. <i>Nature Structural and Molecular Biology</i> , 2008, 15, 707-713. | 8.2 | 113 |
| 8 | Low-power nano-optical vortex trapping via plasmonic diablo nanoantennas. <i>Nature Communications</i> , 2011, 2, 582. | 12.8 | 108 |
| 9 | A single vesicle-vesicle fusion assay for in vitro studies of SNAREs and accessory proteins. <i>Nature Protocols</i> , 2012, 7, 921-934. | 12.0 | 98 |
| 10 | Mechanical unzipping and re-zipping of a single SNARE complex reveals hysteresis as a force-generating mechanism. <i>Nature Communications</i> , 2013, 4, 1705. | 12.8 | 96 |
| 11 | Topographic control of lipid-raft reconstitution in model membranes. <i>Nature Materials</i> , 2006, 5, 281-285. | 27.5 | 79 |
| 12 | Mapping the energy landscape for second-stage folding of a single membrane protein. <i>Nature Chemical Biology</i> , 2015, 11, 981-987. | 8.0 | 78 |
| 13 | Spring-loaded unraveling of a single SNARE complex by NSF in one round of ATP turnover. <i>Science</i> , 2015, 347, 1485-1489. | 12.6 | 73 |
| 14 | PIF1-Interacting Transcription Factors and Their Binding Sequence Elements Determine the in Vivo Targeting Sites of PIF1. <i>Plant Cell</i> , 2016, 28, 1388-1405. | 6.6 | 68 |
| 15 | Real-time single-molecule co-immunoprecipitation analyses reveal cancer-specific Ras signalling dynamics. <i>Nature Communications</i> , 2013, 4, 1505. | 12.8 | 66 |
| 16 | Phosphorylated EGFR Dimers Are Not Sufficient to Activate Ras. <i>Cell Reports</i> , 2018, 22, 2593-2600. | 6.4 | 62 |
| 17 | Watching helical membrane proteins fold reveals a common N-to-C-terminal folding pathway. <i>Science</i> , 2019, 366, 1150-1156. | 12.6 | 59 |
| 18 | Simple super-resolution live-cell imaging based on diffusion-assisted Förster resonance energy transfer. <i>Scientific Reports</i> , 2013, 3, 1208. | 3.3 | 50 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Submicrometer elasticity of double-stranded DNA revealed by precision force-extension measurements with magnetic tweezers. <i>Science Advances</i> , 2019, 5, eaav1697. | 10.3 | 50 |
| 20 | Review: Progresses in understanding N-ethylmaleimide sensitive factor (NSF) mediated disassembly of SNARE complexes. <i>Biopolymers</i> , 2016, 105, 518-531. | 2.4 | 48 |
| 21 | Dissection of SNARE-driven membrane fusion and neuroexocytosis by wedging small hydrophobic molecules into the SNARE zipper. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 22145-22150. | 7.1 | 47 |
| 22 | Single-Vesicle Fusion Assay Reveals Munc18-1 Binding to the SNARE Core Is Sufficient for Stimulating Membrane Fusion. <i>ACS Chemical Neuroscience</i> , 2010, 1, 168-174. | 3.5 | 43 |
| 23 | Programmed folding of DNA origami structures through single-molecule force control. <i>Nature Communications</i> , 2014, 5, 5654. | 12.8 | 43 |
| 24 | Inositol pyrophosphates inhibit synaptotagmin-dependent exocytosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 8314-8319. | 7.1 | 41 |
| 25 | Real-time single-molecule coimmunoprecipitation of weak protein-protein interactions. <i>Nature Protocols</i> , 2013, 8, 2045-2060. | 12.0 | 31 |
| 26 | Pixel-encapsulated flexible displays with a multifunctional elastomer substrate for self-aligning liquid crystals. <i>Applied Physics Letters</i> , 2006, 88, 263501. | 3.3 | 29 |
| 27 | C2AB: A Molecular Glue for Lipid Vesicles with a Negatively Charged Surface. <i>Langmuir</i> , 2009, 25, 7177-7180. | 3.5 | 29 |
| 28 | Efficient Single-Molecule Fluorescence Resonance Energy Transfer Analysis by Site-Specific Dual-Labeling of Protein Using an Unnatural Amino Acid. <i>Analytical Chemistry</i> , 2011, 83, 8849-8854. | 6.5 | 27 |
| 29 | The synaptotagmin 1 linker may function as an electrostatic zipper that opens for docking but closes for fusion pore opening. <i>Biochemical Journal</i> , 2013, 456, 25-33. | 3.7 | 26 |
| 30 | High-Resolution Single-Molecule Magnetic Tweezers. <i>Annual Review of Biochemistry</i> , 2022, 91, 33-59. | 11.1 | 25 |
| 31 | Synaptic vesicle fusion: today and beyond. <i>Nature Structural and Molecular Biology</i> , 2019, 26, 663-668. | 8.2 | 23 |
| 32 | New Antifouling Platform Characterized by Single-Molecule Imaging. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 3553-3558. | 8.0 | 21 |
| 33 | Observing Extremely Weak Protein-Protein Interactions with Conventional Single-Molecule Fluorescence Microscopy. <i>Journal of the American Chemical Society</i> , 2016, 138, 14238-14241. | 13.7 | 21 |
| 34 | Structural basis of neuropeptide Y signaling through Y1 receptor. <i>Nature Communications</i> , 2022, 13, 853. | 12.8 | 20 |
| 35 | Electrically Programmable Nematofluidics with a High Level of Selectivity in a Hierarchically Branched Architecture. <i>ChemPhysChem</i> , 2010, 11, 101-104. | 2.1 | 19 |
| 36 | Real-Time Observation of Multiple-Protein Complex Formation with Single-Molecule FRET. <i>Journal of the American Chemical Society</i> , 2013, 135, 10254-10257. | 13.7 | 18 |

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|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 37 | Profiling of protein-protein interactions via single-molecule techniques predicts the dependence of cancers on growth-factor receptors. <i>Nature Biomedical Engineering</i> , 2018, 2, 239-253. | 22.5 | 18 |
| 38 | Progress in understanding the neuronal SNARE function and its regulation. <i>Cellular and Molecular Life Sciences</i> , 2009, 66, 460-469. | 5.4 | 17 |
| 39 | Multi-domain Liquid Crystal Display with Self-Aligned 4-Domains on Surface Relief Gratings of Photopolymer. <i>Molecular Crystals and Liquid Crystals</i> , 2002, 375, 433-440. | 0.9 | 15 |
| 40 | Focused clamping of a single neuronal SNARE complex by complexin under high mechanical tension. <i>Nature Communications</i> , 2018, 9, 3639. | 12.8 | 15 |
| 41 | Profiling protein-protein interactions of single cancer cells with in situ lysis and co-immunoprecipitation. <i>Lab on A Chip</i> , 2019, 19, 1922-1928. | 6.0 | 14 |
| 42 | Single-molecule functional anatomy of endogenous HER2-HER3 heterodimers. <i>ELife</i> , 2020, 9, . | 6.0 | 14 |
| 43 | Evolutionary balance between foldability and functionality of a glucose transporter. <i>Nature Chemical Biology</i> , 2022, 18, 713-723. | 8.0 | 13 |
| 44 | Single-Molecule Co-Immuno-precipitation Reveals Functional Inheritance of EGFRs in Extracellular Vesicles. <i>Small</i> , 2018, 14, e1802358. | 10.0 | 12 |
| 45 | Encoding Multiple Virtual Signals in DNA Barcodes with Single-Molecule FRET. <i>Nano Letters</i> , 2021, 21, 1694-1701. | 9.1 | 12 |
| 46 | Untangling the complexity of membrane protein folding. <i>Current Opinion in Structural Biology</i> , 2022, 72, 237-247. | 5.7 | 11 |
| 47 | The HER2 S310F Mutant Can Form an Active Heterodimer with the EGFR, Which Can Be Inhibited by Cetuximab but Not by Trastuzumab as well as Pertuzumab. <i>Biomolecules</i> , 2019, 9, 629. | 4.0 | 10 |
| 48 | Extreme parsimony in ATP consumption by 20S complexes in the global disassembly of single SNARE complexes. <i>Nature Communications</i> , 2021, 12, 3206. | 12.8 | 8 |
| 49 | Shedding light on complexity of protein-protein interactions in cancer. <i>Current Opinion in Chemical Biology</i> , 2019, 53, 75-81. | 6.1 | 7 |
| 50 | Self-formation of microdomains by the topographical and fringe field effects in a liquid crystal display with dielectric surface gratings. <i>Applied Physics Letters</i> , 2002, 81, 2361-2363. | 3.3 | 6 |
| 51 | A self-aligned multi-domain liquid-crystal display on polymer gratings in a vertically aligned configuration. <i>Journal of the Society for Information Display</i> , 2003, 11, 283. | 2.1 | 5 |
| 52 | Water Meniscus-Directed Organization of Liquid-Ordered Domains in Lipid Monolayer. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 4527-4531. | 0.9 | 5 |
| 53 | Simultaneous Real-Time Three-Dimensional Localization and FRET Measurement of Two Distinct Particles. <i>Nano Letters</i> , 2021, 21, 7479-7485. | 9.1 | 4 |
| 54 | Spontaneous aggregation of lipids in supported membranes with geometrical barriers. <i>Applied Surface Science</i> , 2004, 238, 299-303. | 6.1 | 3 |

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|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 55 | Chasing the Trails of SNAREs and Lipids Along the Membrane Fusion Pathway. <i>Current Topics in Membranes</i> , 2011, 68, 161-184. | 0.9 | 3 |
| 56 | Simultaneous detection of biomolecular interactions and surface topography using photonic forcemicroscopy. <i>Biosensors and Bioelectronics</i> , 2013, 42, 106-111. | 10.1 | 3 |
| 57 | Patterning Process of Membrane-Associated Proteins on a Solid Support with Geometrical Grooves. <i>Molecular Crystals and Liquid Crystals</i> , 2005, 434, 297/[625]-303/[631]. | 0.9 | 2 |
| 58 | Multi-domain Liquid Crystal Display with Self-Aligned 4-Domains on Surface Relief Gratings of Photopolymer. <i>Molecular Crystals and Liquid Crystals</i> , 2002, 375, 433-440. | 0.3 | 2 |
| 59 | Wavelength Selection in a Fabry-Perot Filter with an Axially Aligned Nematic Liquid Crystal. <i>Molecular Crystals and Liquid Crystals</i> , 1999, 337, 19-24. | 0.3 | 1 |
| 60 | Properties of Self-Quenching Fluorescence Dye for Vesicle-Vesicle Content Mixing System. <i>Biophysical Journal</i> , 2013, 104, 88a. | 0.5 | 1 |
| 61 | Optical Properties of a Chiral Liquid Crystal in a Generalized Coupled Mode Formalism. <i>Molecular Crystals and Liquid Crystals</i> , 2001, 371, 203-206. | 0.3 | 0 |
| 62 | ANALYSIS OF THE OPTICAL PROPERTIES OF A HELICOIDAL LIQUID CRYSTAL IN A GENERAL COUPLED MODE FORMALISM. <i>Molecular Crystals and Liquid Crystals</i> , 2001, 366, 387-394. | 0.3 | 0 |
| 63 | P-91: Gray Scale Stabilization in a Twisted Nematic Liquid Crystal Display Mode on Self-Induced Micro-Domain Array. <i>Digest of Technical Papers SID International Symposium</i> , 2002, 33, 562. | 0.3 | 0 |
| 64 | Control of electric equi-potential in a liquid crystal film on a grating surface. <i>Optical Materials</i> , 2003, 21, 647-650. | 3.6 | 0 |
| 65 | UNDULATION PATTERNS IN PATTERN FORMATION OF CHOLESTERIC LIQUID CRYSTALS AS WAVELENGTH-CHANGING INSTABILITIES. <i>Molecular Crystals and Liquid Crystals</i> , 2004, 413, 489-497. | 0.9 | 0 |
| 66 | In Situ Quantitative Imaging of Single-Molecule Co-Immunoprecipitation. <i>Biophysical Journal</i> , 2012, 102, 600a. | 0.5 | 0 |
| 67 | Direct Observation of Dual Pathways of Yeast Minimal-Machinery-SNARE Driven Vesicle Fusion. <i>Biophysical Journal</i> , 2012, 102, 499a. | 0.5 | 0 |
| 68 | Dynamic Ca ²⁺ -Dependent Activity of Membrane-Anchored Synaptotagmin 1 Observed at the Content Mixing Level. <i>Biophysical Journal</i> , 2012, 102, 502a. | 0.5 | 0 |
| 69 | Single Vesicle Fusion System for Content Mixing and SNARE Complex Formstion. <i>Biophysical Journal</i> , 2012, 102, 499a. | 0.5 | 0 |
| 70 | Quantification of Protein Concentration using Single Molecule Western Blot. <i>Biophysical Journal</i> , 2012, 102, 181a. | 0.5 | 0 |
| 71 | Observation of Two-Step Unzipping of a Single SNARE Complex by using Nano-Mechanical Measurement. <i>Biophysical Journal</i> , 2012, 102, 670a. | 0.5 | 0 |
| 72 | Dynamic Ca ²⁺ -Dependent Activity of Membrane-Anchored Synaptotagmin1 Observed at the Content Mixing Level. <i>Biophysical Journal</i> , 2013, 104, 89a. | 0.5 | 0 |

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|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 73 | Mechanical Unzipping and Reziping of a Single SNARE Complex Reveals Large Hysteresis as the Force Generating Mechanism. Biophysical Journal, 2013, 104, 89a. | 0.5 | 0 |
| 74 | Single Molecule Force Control Drives the Rapid Assembly of DNA Nanostructure. Biophysical Journal, 2014, 106, 279a. | 0.5 | 0 |
| 75 | Single-Cell Single-Molecule Co-IP Analysis. Biophysical Journal, 2014, 106, 196a-197a. | 0.5 | 0 |
| 76 | Single Molecule Diagnostic Method to Reveal Cancer-Related EGFR Signaling. Biophysical Journal, 2014, 106, 224a. | 0.5 | 0 |
| 77 | Seeing an explosive way of NSF/SNAP-mediated SNARE-complex disassembly using single-molecule measurements. , 2015, , . | | 0 |
| 78 | Studying the Effects of Inositol Pyrophosphates in an In Vitro Vesicle Vesicle Fusion Assay. Methods in Molecular Biology, 2020, 2091, 145-152. | 0.9 | 0 |
| 79 | Emerging Biophysics Tools for Biologists. Molecules and Cells, 2022, 45, 4-5. | 2.6 | 0 |