# Ahmet Yildiz

List of Publications by Year
in descending order



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|---|---|---|---|
| 57 papers | 8,170 citations | 126907 33 h-index | 168389 53 g-index |
| 75 all docs | 75 docs citations | 75 times ranked | 7780 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Myosin V Walks Hand-Over-Hand: Single Fluorophore Imaging with 1.5-nm Localization. Science, 2003, 300, 2061-2065. | 12.6 | 1,752 |
| 2 | Enhanced proofreading governs CRISPRâ€“Cas9 targeting accuracy. Nature, 2017, 550, 407-410. | 27.8 | 901 |
| 3 | Kinesin Walks Hand-Over-Hand. Science, 2004, 303, 676-678. | 12.6 | 865 |
| 4 | Single-Molecule Analysis of Dynein Processivity and Stepping Behavior. Cell, 2006, 126, 335-348. | 28.9 | 571 |
| 5 | Fluorescence Imaging with One Nanometer Accuracy:â€‰ Application to Molecular Motors. Accounts of Chemical Research, 2005, 38, 574-582. | 15.6 | 324 |
| 6 | Intramolecular Strain Coordinates Kinesin Stepping Behavior along Microtubules. Cell, 2008, 134, 1030-1041. | 28.9 | 276 |
| 7 | Cryo-EM shows how dynactin recruits two dyneins for faster movement. Nature, 2018, 554, 202-206. | 27.8 | 238 |
| 8 | Rapid and Fully Microfluidic Ebola Virus Detection with CRISPR-Cas13a. ACS Sensors, 2019, 4, 1048-1054. | 7.8 | 215 |
| 9 | A conformational checkpoint between DNA binding and cleavage by CRISPR-Cas9. Science Advances, 2017, 3, eaao0027. | 10.3 | 211 |
| 10 | Live cell imaging of low- and non-repetitive chromosome loci using CRISPR-Cas9. Nature Communications, 2017, 8, 14725. | 12.8 | 199 |
| 11 | Cytoplasmic Dynein Moves Through Uncoordinated Stepping of the AAA+ Ring Domains. Science, 2012, 335, 221-225. | 12.6 | 187 |
| 12 | The mammalian dyneinâ€“dynactin complex is a strong opponent to kinesin in a tug-of-war competition. Nature Cell Biology, 2016, 18, 1018-1024. | 10.3 | 164 |
| 13 | Myosin VI Steps via a Hand-over-Hand Mechanism with Its Lever Arm Undergoing Fluctuations when Attached to Actin. Journal of Biological Chemistry, 2004, 279, 37223-37226. | 3.4 | 141 |
| 14 | Shelterin Protects Chromosome Ends by Compacting Telomeric Chromatin. Cell, 2016, 164, 735-746. | 28.9 | 138 |
| 15 | G-quadruplex formation in telomeres enhances POT1/TPP1 protection against RPA binding. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2990-2995. | 7.1 | 130 |
| 16 | Dynamics of the IFT machinery at the ciliary tip. ELife, 2017, 6, . | 6.0 | 122 |
| 17 | Step-Size Is Determined by Neck Length in Myosin Vâ€. Biochemistry, 2005, 44, 16203-16210. | 2.5 | 91 |
| 18 | Lis1 activates dynein motility by modulating its pairing with dynactin. Nature Cell Biology, 2020, 22, 570-578. | 10.3 | 86 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Why kinesin is so processive. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 12717-12722. | 7.1 | 85 |
| 20 | Tension on the linker gates the ATP-dependent release of dynein from microtubules. Nature Communications, 2014, 5, 4587. | 12.8 | 85 |
| 21 | Intraflagellar transport drives flagellar surface motility. ELife, 2013, 2, e00744. | 6.0 | 85 |
| 22 | Kinesin: walking, crawling or sliding along?. Trends in Cell Biology, 2005, 15, 112-120. | 7.9 | 83 |
| 23 | The AAA3 domain of cytoplasmic dynein acts as a switch to facilitate microtubule release. Nature Structural and Molecular Biology, 2015, 22, 73-80. | 8.2 | 75 |
| 24 | Flagella stator homologs function as motors for myxobacterial gliding motility by moving in helical trajectories. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E1508-13. | 7.1 | 72 |
| 25 | SARS-CoV-2 nucleocapsid protein forms condensates with viral genomic RNA. PLoS Biology, 2021, 19, e3001425. | 5.6 | 71 |
| 26 | Cargo adaptors regulate stepping and force generation of mammalian dyneinâ€"dynactin. Nature Chemical Biology, 2019, 15, 1093-1101. | 8.0 | 68 |
| 27 | Bidirectional helical motility of cytoplasmic dynein around microtubules. ELife, 2014, 3, e03205. | 6.0 | 66 |
| 28 | Activation and Regulation of Cytoplasmic Dynein. Trends in Biochemical Sciences, 2020, 45, 440-453. | 7.5 | 53 |
| 29 | Structural and functional insight into regulation of kinesin-1 by microtubule-associated protein MAP7. Science, 2022, 375, 326-331. | 12.6 | 53 |
| 30 | Cytoplasmic dynein transports cargos via load-sharing between the heads. Nature Communications, 2014, 5, 5544. | 12.8 | 52 |
| 31 | Structure and Mechanics of Dynein Motors. Annual Review of Biophysics, 2021, 50, 549-574. | 10.0 | 52 |
| 32 | Maximum Likelihood Estimation of Molecular Motor Kinetics from Staircase Dwell-Time Sequences. Biophysical Journal, 2006, 91, 1156-1168. | 0.5 | 51 |
| 33 | Directionality of dynein is controlled by the angle and length of its stalk. Nature, 2019, 566, 407-410. | 27.8 | 50 |
| 34 | Kinesinâ€™s Front Head Is Gated by the Backward Orientation of Its Neck Linker. Cell Reports, 2015, 10, 1967-1973. | 6.4 | 49 |
| 35 | Covalent Protein Labeling and Improved Single-Molecule Optical Properties of Aqueous CdSe/CdS Quantum Dots. ACS Nano, 2017, 11, 6773-6781. | 14.6 | 47 |
| 36 | Kinesin and dynein use distinct mechanisms to bypass obstacles. ELife, 2019, 8, . | 6.0 | 47 |

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|---|---|---|---|
| 37 | Critical Interactions Between the SARS-CoV-2 Spike Glycoprotein and the Human ACE2 Receptor. Journal of Physical Chemistry B, 2021, 125, 5537-5548. | 2.6 | 41 |
| 38 | Compartmentalization of telomeres through DNA-scaffolded phase separation. Developmental Cell, 2022, 57, 277-290.e9. | 7.0 | 38 |
| 39 | MotAB-like machinery drives the movement of MreB filaments during bacterial gliding motility. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2484-2489. | 7.1 | 35 |
| 40 | Single-molecule imaging of telomerase reverse transcriptase in human telomerase holoenzyme and minimal RNP complexes. ELife, 2015, 4, . | 6.0 | 31 |
| 41 | Extracting Dwell Time Sequences from Processive Molecular Motor Data. Biophysical Journal, 2006, 91, 3135-3150. | 0.5 | 30 |
| 42 | Dynein harnesses active fluctuations of microtubules for faster movement. Nature Physics, 2020, 16, 312-316. | 16.7 | 27 |
| 43 | The polarity of myxobacterial gliding is regulated by direct interactions between the gliding motors and the Ras homolog MglA. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E186-93. | 7.1 | 23 |
| 44 | Processive cytoskeletal motors studied with singleâ€molecule fluorescence techniques. FEBS Letters, 2014, 588, 3520-3525. | 2.8 | 19 |
| 45 | The mitotic protein NuMA plays a spindle-independent role in nuclear formation and mechanics. Journal of Cell Biology, 2020, 219, . | 5.2 | 14 |
| 46 | PhotoGate microscopy to track single molecules in crowded environments. Nature Communications, 2017, 8, 13978. | 12.8 | 13 |
| 47 | GE PRIZE WINNER: How Molecular Motors Move. Science, 2006, 311, 792-793. | 12.6 | 11 |
| 48 | Binding Mechanism of Neutralizing Nanobodies Targeting SARS-CoV-2 Spike Glycoprotein. Journal of Chemical Information and Modeling, 2021, 61, 5152-5160. | 5.4 | 11 |
| 49 | Total Internal Reflection Fluorescence Microscopy. Cold Spring Harbor Protocols, 2015, 2015, pdb.top086348. | 0.3 | 10 |
| 50 | Tracking Movements of the Microtubule Motors Kinesin and Dynein Using Total Internal Reflection Fluorescence Microscopy. Cold Spring Harbor Protocols, 2015, 2015, pdb.prot086355. | 0.3 | 9 |
| 51 | SARS-CoV-2 Delta Variant Decreases Nanobody Binding and ACE2 Blocking Effectivity. Journal of Chemical Information and Modeling, 2022, , . | 5.4 | 5 |
| 52 | Sorting out microtubule-based transport. Nature Reviews Molecular Cell Biology, 2021, 22, 73-73. | 37.0 | 4 |
| 53 | Fluorescence Tracking of Motor Proteins In Vitro. Exs, 2014, 105, 211-234. | 1.4 | 2 |
| 54 | Single-Molecule Fluorescent Particle Tracking. , 2009, , 1. | | 1 |

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|---|---|---|---|
| 55 | Single-molecule dynein motor mechanics inÂvitro. , 2018, , 112-135. | | 0 |
| 56 | Multicolor Tracking of Molecular Motors at Nanometer Resolution. Methods in Molecular Biology, 2018, 1805, 139-149. | 0.9 | 0 |
| 57 | Measurement of Force-Dependent Release Rates of Cytoskeletal Motors. Methods in Molecular Biology, 2017, 1486, 469-481. | 0.9 | 0 |