

Shoichi Toyabe

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

1,197
citations

1040056

9
h-index

839539

18
g-index

24
all docs

24
docs citations

24
times ranked

906
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Cooperative stator assembly of bacterial flagellar motor mediated by rotation. Nature Communications, 2021, 12, 3218. | 12.8 | 11 |
| 2 | Optimal Rectification without Forward-Current Suppression by Biological Molecular Motor. Physical Review Letters, 2021, 126, 208101. | 7.8 | 2 |
| 3 | Tight Chemomechanical Coupling of the F1 Motor Relies on Structural Stability. Biophysical Journal, 2020, 119, 48-54. | 0.5 | 3 |
| 4 | Harnessing random low Reynolds number flow for net migration. Physical Review E, 2020, 101, 063101. | 2.1 | 2 |
| 5 | Efficiencies of molecular motors: a comprehensible overview. Biophysical Reviews, 2020, 12, 419-423. | 3.2 | 10 |
| 6 | Session 2SDAâ€”Nonequilibrium energetics of biological molecular machines. Biophysical Reviews, 2020, 12, 273-274. | 3.2 | 2 |
| 7 | Experimental characterization of autonomous heat engine based on minimal dynamical-system model. Physical Review Research, 2020, 2, . | 3.6 | 3 |
| 8 | Evaluation of the Duty Ratio of the Bacterial Flagellar Motor by Dynamic Load Control. Biophysical Journal, 2019, 116, 1952-1959. | 0.5 | 15 |
| 9 | Assembly of a functional and responsive microstructure by heat bonding of DNA-grafted colloidal brick. Scientific Reports, 2017, 7, 9104. | 3.3 | 4 |
| 10 | Decoding Fluctuation: Diffusional Analysis of Biological Molecular Motors. JPSJ News and Comments, 2016, 13, 07. | 0.1 | 2 |
| 11 | Single molecule thermodynamics of ATP synthesis by F1-ATPase. New Journal of Physics, 2015, 17, 015008. | 2.9 | 31 |
| 12 | Nonequilibrium Fluctuations in Biological Strands, Machines, and Cells. Journal of the Physical Society of Japan, 2015, 84, 102001. | 1.6 | 15 |
| 13 | Experimental thermodynamics of single molecular motor. Biophysics (Nagoya-shi, Japan), 2013, 9, 91-98. | 0.4 | 13 |
| 14 | Recovery of state-specific potential of molecular motor from single-molecule trajectory. Europhysics Letters, 2012, 97, 40004. | 2.0 | 39 |
| 15 | 1L1548 P05 1YE1000 Single-molecule nonequilibrium thermodynamics of molecular motor(Molecular) Tj ETQq1 1 0.784314 rgBT /Over 0.1 0 | 0.1 | 0 |
| 16 | Thermodynamic efficiency and mechanochemical coupling of F ₁ -ATPase. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 17951-17956. | 7.1 | 145 |
| 17 | Experimental demonstration of information-to-energy conversion and validation of the generalized Jarzynski equality. Nature Physics, 2010, 6, 988-992. | 16.7 | 714 |
| 18 | Nonequilibrium Energetics of a Single F_1 -ATPase Molecule. Physical Review Letters, 2010, 104, 198103. | 7.8 | 149 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | 2TA4-03 Stall torque of F1-ATPase(The 47th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2009, 49, S43. | 0.1 | 0 |
| 20 | Effect of external torque on the ATP-driven rotation of F1-ATPase. Biochemical and Biophysical Research Communications, 2008, 366, 951-957. | 2.1 | 37 |
| 21 | 3P-214 Electrogenic activity of bacteriorhodopsin adsorbed on Lumirror membrane(The 46th Annual) Tj ETQq1 1 0.784314 rgBT /Over | 0.1 | 0 |
| 22 | 2P-310 Measurement of Violation of Fluctuation Dissipation Theorem of Single Molecule F ₁ -ATPase(The 46th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2008, 48, S122. | 0.1 | 0 |