

# Fei Liu

## List of Publications by Year in descending order

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47  
papers

527  
citations

687220

13  
h-index

713332

21  
g-index

48  
all docs

48  
docs citations

48  
times ranked

383  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Auxiliary open quantum system for the Floquet quantum master equation. <i>Physical Review E</i> , 2021, 103, 022116.   | 0.8 | 1         |
| 2  | On a tilted Liouville-master equation of open quantum systems. <i>Communications in Theoretical Physics</i> , 2021, 73, 095601.  | 1.1 | 1         |
| 3  | Stochastic Floquet quantum heat engines and stochastic efficiencies. <i>Physical Review E</i> , 2020, 101, 062144.   | 0.8 | 8         |
| 4  | Infima statistics of entropy production in an underdamped Brownian motor. <i>Physical Review E</i> , 2020, 102, 062127.  | 0.8 | 5         |
| 5  | A fluctuation theorem for Floquet quantum master equations. <i>Communications in Theoretical Physics</i> , 2020, 72, 095601.   | 1.1 | 0         |
| 6  | Computing characteristic functions of quantum work in phase space. <i>Physical Review E</i> , 2019, 100, 062119.   | 0.8 | 8         |
| 7  | Quantum corrections of work statistics in closed quantum systems. <i>Physical Review E</i> , 2018, 98, 012132.   | 0.8 | 13        |
| 8  | Calculating work in weakly driven quantum master equations: Backward and forward equations. <i>Physical Review E</i> , 2016, 93, 012127.   | 0.8 | 14        |
| 9  | Characteristic functions based on a quantum jump trajectory. <i>Physical Review E</i> , 2016, 94, 062133.  | 0.8 | 19        |
| 10 | Nonequilibrium work equalities in isolated quantum systems. <i>Chinese Physics B</i> , 2014, 23, 070512.   | 0.7 | 6         |
| 11 | Equivalence of two Bochkov-Kuzovlev equalities in quantum two-level systems. <i>Physical Review E</i> , 2014, 89, 042122.  | 0.8 | 23        |
| 12 | Generalized Integral Fluctuation Relation with Feedback Control for Diffusion Processes. <i>Communications in Theoretical Physics</i> , 2014, 62, 571-578.   | 1.1 | 2         |
| 13 | Calculating work in adiabatic two-level quantum Markovian master equations: A characteristic function method. <i>Physical Review E</i> , 2014, 90, 032121.   | 0.8 | 25        |
| 14 | Master equation model for Gaussian disordered organic field-effect transistors. <i>Journal of Applied Physics</i> , 2013, 114, 074502.   | 1.1 | 2         |
| 15 | Splitting of the rate matrix as a definition of time reversal in master equation systems. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012, 45, 125004.  | 0.7 | 2         |
| 16 | Derivation of quantum work equalities using a quantum Feynman-Kac formula. <i>Physical Review E</i> , 2012, 86, 010103.  | 0.8 | 18        |
| 17 | Modeling carrier transport and electric field evolution in Gaussian disordered organic field-effect transistors. <i>Journal of Applied Physics</i> , 2011, 109, 104512.  | 1.1 | 5         |
| 18 | Polarization-dependence of optical second harmonic generation for chiral cylindrical structure and explanation for nonlinear optical imaging of cholesteric liquid crystals. <i>Chemical Physics Letters</i> , 2011, 511, 455-460. | 1.2 | 4         |

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|----|--|-----|-----------|
| 19 | Influence of traps on transient electric field and mobility evaluation in organic field-effect transistors. <i>Journal of Applied Physics</i> , 2010, 107, 043712.                             | 1.1 | 31        |
| 20 | Linear response theory and transient fluctuation relations for diffusion processes: a backward point of view. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 495003.    | 0.7 | 8         |
| 21 | Electron Injection into Pentacene Field-Effect Transistor Observed by Time-Resolved Optical Second Harmonic Generation Imaging. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 04DK05. | 0.8 | 6         |
| 22 | Generalized integral fluctuation theorem for diffusion processes. <i>Physical Review E</i> , 2009, 79, 060107.   | 0.8 | 12        |
| 23 | Transient charge accumulation in pentacene field effect transistor with silver electrode. <i>Thin Solid Films</i> , 2009, 518, 485-488.  | 0.8 | 2         |
| 24 | The study of the elasticity of spider dragline silk with liquid crystal model. <i>Thin Solid Films</i> , 2009, 518, 735-738.   | 0.8 | 2         |
| 25 | Studying Transient Carrier Behaviors in Pentacene Field Effect Transistors Using Visualized Electric Field Migration. <i>Journal of Physical Chemistry C</i> , 2009, 113, 10279-10284.         | 1.5 | 36        |
| 26 | A generalized integral fluctuation theorem for general jump processes. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2009, 42, 332003.   | 0.7 | 6         |
| 27 | A Kinetic Model of Transcription Initiation by RNA Polymerase. <i>Journal of Molecular Biology</i> , 2008, 378, 520-529.   | 2.0 | 14        |
| 28 | Bayesian Analysis of Folding and Unfolding Time Series of Single-Forced RNAs. <i>Journal of Physical Chemistry B</i> , 2008, 112, 13680-13683.   | 1.2 | 3         |
| 29 | KIDNEY-BOOJUM-LIKE SOLUTIONS AND EXACT SHAPE EQUATION OF LIPID MONOLAYER DOMAINS. <i>International Journal of Modern Physics B</i> , 2008, 22, 2047-2053.                                      | 1.0 | 3         |
| 30 | KIDNEY-BOOJUM-LIKE SOLUTIONS AND EXACT SHAPE EQUATION OF SOLID-LIKE DOMAINS IN LIPID MONOLAYER. <i>International Journal of Modern Physics B</i> , 2008, 22, 4607-4616.                        | 1.0 | 1         |
| 31 | Diffusionlike electric-field migration in the channel of organic field-effect transistors. <i>Physical Review B</i> , 2008, 78, .  | 1.1 | 63        |
| 32 | Two-pathway four-state kinetic model of thioredoxin-catalyzed reduction of single forced disulfide bonds. <i>Physical Review E</i> , 2008, 77, 050903.   | 0.8 | 4         |
| 33 | Shear-induced domain deformation in a tilted lipid monolayer: From circle to ellipse and kinked stripe. <i>Physical Review E</i> , 2008, 78, 051704.   | 0.8 | 3         |
| 34 | Force Unfolding Single RNAs. <i>Biophysical Journal</i> , 2006, 90, 1895-1902.   | 0.2 | 8         |
| 35 | Single molecule Michaelis-Menten equation beyond quasistatic disorder. <i>Physical Review E</i> , 2006, 74, 030902.  | 0.8 | 28        |
| 36 | Shape and stability of two-dimensional lipid domains with dipole-dipole interactions. <i>Journal of Chemical Physics</i> , 2006, 125, 224701.  | 1.2 | 27        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Driven translocation of a polynucleotide chain through a nanopore: A continuous time Monte Carlo study. <i>Physical Review E</i> , 2006, 74, 011911.                                | 0.8 | 1         |
| 38 | Force modulating dynamic disorder: A physical model of catch-slip bond transitions in receptor-ligand forced dissociation experiments. <i>Physical Review E</i> , 2006, 74, 051904. | 0.8 | 15        |
| 39 | Dynamic disorder in receptor-ligand forced dissociation experiments. <i>Physical Review E</i> , 2006, 73, 010901.   | 0.8 | 12        |
| 40 | Monte Carlo Simulation for Single RNA Unfolding by Force. <i>Biophysical Journal</i> , 2005, 88, 76-84.   | 0.2 | 18        |
| 41 | Unfolding single RNA molecules by mechanical force: A stochastic kinetic method. <i>Physical Review E</i> , 2004, 70, 040901.   | 0.8 | 3         |
| 42 | END-TO-END DISTANCE DISTRIBUTION OF FORCE STRETCHED CHAINS RECONSTRUCTION BY MAXIMUM-ENTROPY METHOD. <i>International Journal of Modern Physics B</i> , 2004, 18, 2365-2375.        | 1.0 | 1         |
| 43 | Flexoelectric origin of nanomechanic deflection in DNA-microcantilever system. <i>Biosensors and Bioelectronics</i> , 2003, 18, 655-660.  | 5.3 | 44        |
| 44 | Theory for the force-stretched double-stranded chain molecule. <i>Journal of Chemical Physics</i> , 2003, 119, 8112-8123.   | 1.2 | 4         |
| 45 | Maximum-entropy calculation of the end-to-end distance distribution of force-stretched chains. <i>Journal of Chemical Physics</i> , 2003, 119, 8124-8132.                           | 1.2 | 6         |
| 46 | Mobility Measurement Based on Visualized Electric Field Migration in Organic Field-Effect Transistors. <i>Applied Physics Express</i> , 0, 2, 061501.                               | 1.1 | 9         |
| 47 | Deriving a kinetic uncertainty relation for piecewise deterministic processes: from classical to quantum. <i>Communications in Theoretical Physics</i> , 0, , .                     | 1.1 | 1         |