# Feng Liu

List of Publications by Year
in descending order



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|---|---|---|---|
| 36 papers | 1,376 citations | 430874 18 h-index | 345221 36 g-index |
| 36 all docs | 36 docs citations | 36 times ranked | 1452 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Two-phase dynamics of p53 in the DNA damage response. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 8990-8995. | 7.1 | 275 |
| 2 | Cell fate decision mediated by p53 pulses. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 12245-12250. | 7.1 | 211 |
| 3 | Resonance-enhanced signal detection and transduction in the Hodgkin-Huxley neuronal systems. Physical Review E, 2001, 63, 021907. | 2.1 | 97 |
| 4 | Interlinking positive and negative feedback loops creates a tunable motif in gene regulatory networks. Physical Review E, 2009, 80, 011926. | 2.1 | 95 |
| 5 | Propagation of Firing Rate in a Feed-Forward Neuronal Network. Physical Review Letters, 2006, 96, 018103. | 7.8 | 75 |
| 6 | Modeling the interplay between the HIF-1 and p53 pathways in hypoxia. Scientific Reports, 2015, 5, 13834. | 3.3 | 60 |
| 7 | Coordination between Cell Cycle Progression and Cell Fate Decision by the p53 and E2F1 Pathways in Response to DNA Damage. Journal of Biological Chemistry, 2010, 285, 31571-31580. | 3.4 | 56 |
| 8 | Robustness analysis of cellular memory in an autoactivating positive feedback system. FEBS Letters, 2008, 582, 3776-3782. | 2.8 | 42 |
| 9 | Linking fast and slow positive feedback loops creates an optimal bistable switch in cell signaling. Physical Review E, 2007, 76, 031924. | 2.1 | 41 |
| 10 | Modeling the regulation of p53 activation by HIFâ€1 upon hypoxia. FEBS Letters, 2019, 593, 2596-2611. | 2.8 | 39 |
| 11 | Gene transcription in bursting: a unified mode for realizing accuracy and stochasticity. Biological Reviews, 2019, 94, 248-258. | 10.4 | 37 |
| 12 | A Two-Step Mechanism for Cell Fate Decision by Coordination of Nuclear and Mitochondrial p53 Activities. PLoS ONE, 2012, 7, e38164. | 2.5 | 31 |
| 13 | Regulation of the DNA Damage Response by p53 Cofactors. Biophysical Journal, 2012, 102, 2251-2260. | 0.5 | 28 |
| 14 | Cell typeâ€“dependent bimodal p53 activation engenders a dynamic mechanism of chemoresistance. Science Advances, 2018, 4, eaat5077. | 10.3 | 28 |
| 15 | A Common Cortical Circuit Mechanism for Perceptual Categorical Discrimination and Veridical Judgment. PLoS Computational Biology, 2008, 4, e1000253. | 3.2 | 24 |
| 16 | Modeling the response of a tumor-suppressive network to mitogenic and oncogenic signals. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5337-5342. | 7.1 | 24 |
| 17 | Coordination of the Nuclear and Cytoplasmic Activities of p53 in Response to DNA Damage. Biophysical Journal, 2010, 99, 1696-1705. | 0.5 | 22 |
| 18 | Involvement of miR-605 and miR-34a in the DNA Damage Response Promotes Apoptosis Induction. Biophysical Journal, 2014, 106, 1792-1800. | 0.5 | 20 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Realization of tristability in a multiplicatively coupled dual-loop genetic network. Scientific Reports, 2016, 6, 28096. | 3.3 | 15 |
| 20 | Modulation of dynamic modes by interplay between positive and negative feedback loops in gene regulatory networks. Physical Review E, 2018, 97, 042412. | 2.1 | 15 |
| 21 | Roles of cellular heterogeneity, intrinsic and extrinsic noise in variability of p53 oscillation. Scientific Reports, 2019, 9, 5883. | 3.3 | 15 |
| 22 | Synaptic mechanisms for motor variability in a feedforward network. Science Advances, 2020, 6, . | 10.3 | 15 |
| 23 | Dynamic Mechanism for the Transcription Apparatus Orchestrating Reliable Responses to Activators. Scientific Reports, 2012, 2, 422. | 3.3 | 14 |
| 24 | Coordination between p21 and DDB2 in the Cellular Response to UV Radiation. PLoS ONE, 2013, 8, e80111. | 2.5 | 14 |
| 25 | Interplay between Mdm2 and HIPK2 in the DNA damage response. Journal of the Royal Society Interface, 2014, 11, 20140319. | 3.4 | 13 |
| 26 | Signal propagation through feedforward neuronal networks with different operational modes. Europhysics Letters, 2009, 85, 38006. | 2.0 | 11 |
| 27 | Impact of time delays on oscillatory dynamics of interlinked positive and negative feedback loops. Physical Review E, 2016, 94, 052413. | 2.1 | 10 |
| 28 | Reversible Phosphorylation Subserves Robust Circadian Rhythms by Creating a Switch in Inactivating the Positive Element. Biophysical Journal, 2009, 97, 2867-2875. | 0.5 | 9 |
| 29 | Regulation of Tip60â€dependent p53 acetylation in cell fate decision. FEBS Letters, 2019, 593, 13-22. | 2.8 | 8 |
| 30 | Reconciling the concurrent fast and slow cycling of proteins on gene promoters. Journal of the Royal Society Interface, 2014, 11, 20140253. | 3.4 | 7 |
| 31 | Kinetics of transcription initiation directed by multiplecis-regulatory elements on theglnAp2promoter. Nucleic Acids Research, 2016, 44, 10530-10538. | 14.5 | 7 |
| 32 | Structured Synaptic Inhibition Has a Critical Role in Multiple-Choice Motion-Discrimination Tasks. Journal of Neuroscience, 2014, 34, 13444-13457. | 3.6 | 5 |
| 33 | Modeling the crosstalk between the circadian clock and ROS in Neurospora crassa. Journal of Theoretical Biology, 2018, 458, 125-132. | 1.7 | 5 |
| 34 | Background synaptic input modulates the visuospatial working memory. Physical Review E, 2021, 104, 024416. | 2.1 | 4 |
| 35 | A switchâ€like dynamic mechanism for the initiation of replicative senescence. FEBS Letters, 2014, 588, 4369-4374. | 2.8 | 2 |
| 36 | Modularization of grid cells constrained by the pyramidal patch lattice. IScience, 2021, 24, 102301. | 4.1 | 2 |