

Ioannis Sgouralis

List of Publications by Year in descending order

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35
papers

757
citations

516710

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43
all docs

43
docs citations

43
times ranked

510
citing authors

#	ARTICLE	IF	CITATIONS
1	Diffraction-limited molecular cluster quantification with Bayesian nonparametrics. <i>Nature Computational Science</i> , 2022, 2, 102-111.	8.0	22
2	Modeling Non-additive Effects in Neighboring Chemically Identical Fluorophores. <i>Journal of Physical Chemistry B</i> , 2022, 126, 4216-4225.	2.6	3
3	Generalizing HMMs to Continuous Time for Fast Kinetics: Hidden Markov Jump Processes. <i>Biophysical Journal</i> , 2021, 120, 409-423.	0.5	23
4	Extraction of rapid kinetics from smFRET measurements using integrative detectors. <i>Cell Reports Physical Science</i> , 2021, 2, 100409.	5.6	17
5	Residence time analysis of RNA polymerase transcription dynamics: A Bayesian sticky HMM approach. <i>Biophysical Journal</i> , 2021, 120, 1665-1679.	0.5	3
6	RNA Polymerase Dynamics and Other Single-Molecule Continuous Time Problems. <i>Biophysical Journal</i> , 2020, 118, 544a.	0.5	2
7	Pitching Single-Focus Confocal Data Analysis One Photon at a Time with Bayesian Nonparametrics. <i>Physical Review X</i> , 2020, 10, .	8.9	21
8	Direct Photon-by-Photon Analysis of Time-Resolved Pulsed Excitation Data using Bayesian Nonparametrics. <i>Cell Reports Physical Science</i> , 2020, 1, 100234.	5.6	15
9	Inferring effective forces for Langevin dynamics using Gaussian processes. <i>Journal of Chemical Physics</i> , 2020, 152, 124106.	3.0	16
10	An alternative framework for fluorescence correlation spectroscopy. <i>Nature Communications</i> , 2019, 10, 3662.	12.8	53
11	A method for single molecule tracking using a conventional single-focus confocal setup. <i>Journal of Chemical Physics</i> , 2019, 150, 114108.	3.0	29
12	A Bayesian Nonparametric Approach to Single Molecule Förster Resonance Energy Transfer. <i>Journal of Physical Chemistry B</i> , 2019, 123, 675-688.	2.6	35
13	Single molecule force spectroscopy at high data acquisition: A Bayesian nonparametric analysis. <i>Journal of Chemical Physics</i> , 2018, 148, 123320.	3.0	35
14	A Multicellular Vascular Model of the Renal Myogenic Response. <i>Processes</i> , 2018, 6, 89.	2.8	1
15	Renal medullary and urinary oxygen tension during cardiopulmonary bypass in the rat. <i>Mathematical Medicine and Biology</i> , 2017, 34, dqw010.	1.2	30
16	Global sensitivity analysis in a mathematical model of the renal interstitium. <i>Involve</i> , 2017, 10, 625-649.	0.2	0
17	ICON: An Adaptation of Infinite HMMs for Time Traces with Drift. <i>Biophysical Journal</i> , 2017, 112, 2117-2126.	0.5	41
18	An Introduction to Infinite HMMs for Single-Molecule Data Analysis. <i>Biophysical Journal</i> , 2017, 112, 2021-2029.	0.5	79

#	ARTICLE	IF	CITATIONS
19	A Bayesian Topological Framework for the Identification and Reconstruction of Subcellular Motion. <i>SIAM Journal on Imaging Sciences</i> , 2017, 10, 871-899.	2.2	15
20	Modeling Blood Flow and Oxygenation in a Diabetic Rat Kidney. <i>Association for Women in Mathematics Series</i> , 2017, , 101-113.	0.4	0
21	Bladder urine oxygen tension for assessing renal medullary oxygenation in rabbits: experimental and modeling studies. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016, 311, R532-R544.	1.8	33
22	Transfer Function Analysis of Dynamic Blood Flow Control in the Rat Kidney. <i>Bulletin of Mathematical Biology</i> , 2016, 78, 923-960.	1.9	2
23	Conduction of feedback-mediated signal in a computational model of coupled nephrons. <i>Mathematical Medicine and Biology</i> , 2016, 33, 87-106.	1.2	4
24	Mathematical modeling of renal hemodynamics in physiology and pathophysiology. <i>Mathematical Biosciences</i> , 2015, 264, 8-20.	1.9	24
25	Renal hemodynamics, function, and oxygenation during cardiac surgery performed on cardiopulmonary bypass: a modeling study. <i>Physiological Reports</i> , 2015, 3, e12260.	1.7	40
26	Impact of renal medullary three-dimensional architecture on oxygen transport. <i>American Journal of Physiology - Renal Physiology</i> , 2014, 307, F263-F272.	2.7	61
27	Theoretical assessment of renal autoregulatory mechanisms. <i>American Journal of Physiology - Renal Physiology</i> , 2014, 306, F1357-F1371.	2.7	40
28	Computing Viscous Flow in an Elastic Tube. <i>Numerical Mathematics</i> , 2014, 7, 555-574.	1.3	2
29	Control and Modulation of Fluid Flow in the Rat Kidney. <i>Bulletin of Mathematical Biology</i> , 2013, 75, 2551-2574.	1.9	18
30	Nephrovascular interactions in a mathematical model of rat renal autoregulation. <i>FASEB Journal</i> , 2013, 27, 1110.5.	0.5	0
31	Autoregulation and conduction of vasomotor responses in a mathematical model of the rat afferent arteriole. <i>American Journal of Physiology - Renal Physiology</i> , 2012, 303, F229-F239.	2.7	44
32	Interactions between Tubuloglomerular Feedback and the Myogenic Mechanism of the Afferent Arteriole. <i>FASEB Journal</i> , 2012, 26, 690.2.	0.5	0
33	A mathematical model of the myogenic response to systolic pressure in the afferent arteriole. <i>American Journal of Physiology - Renal Physiology</i> , 2011, 300, F669-F681.	2.7	45
34	Propagation of vasoconstrictive responses in a mathematical model of the rat afferent arteriole. <i>FASEB Journal</i> , 2011, 25, 665.20.	0.5	0
35	Computational Proposal for Tracking Multiple Molecules in a Multifocus Confocal Setup. <i>ACS Photonics</i> , 0, , .	6.6	2