

Saleet Jafri

List of Publications by Year in descending order

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85
papers

3,791
citations

147801

31
h-index

128289

60
g-index

86
all docs

86
docs citations

86
times ranked

3025
citing authors

#	ARTICLE	IF	CITATIONS
1	Machine learning-based prediction of drug and ligand binding in BCL-2 variants through molecular dynamics. <i>Computers in Biology and Medicine</i> , 2022, 140, 105060.	7.0	8
2	Active site prediction of phosphorylated SARS-CoV-2 N-Protein using molecular simulation. <i>Informatics in Medicine Unlocked</i> , 2022, 29, 100889.	3.4	1
3	Optimizing peptide inhibitors of SARS-Cov-2 nsp10/nsp16 methyltransferase predicted through molecular simulation and machine learning. <i>Informatics in Medicine Unlocked</i> , 2022, 29, 100886.	3.4	5
4	Understanding the Dynamics of the Transient and Permanent Opening Events of the Mitochondrial Permeability Transition Pore with a Novel Stochastic Model. <i>Membranes</i> , 2022, 12, 494.	3.0	3
5	Critical Requirements for the Initiation of a Cardiac Arrhythmia in Rat Ventricle: How Many Myocytes?. <i>Cells</i> , 2022, 11, 1878.	4.1	3
6	Computational Modeling of Mitochondria to Understand the Dynamics of Oxidative Stress. <i>Methods in Molecular Biology</i> , 2022, , 363-422.	0.9	1
7	Predicting Genetic Variation Severity Using Machine Learning to Interpret Molecular Simulations. <i>Biophysical Journal</i> , 2021, 120, 189-204.	0.5	15
8	T lymphocytes from malignant hyperthermia-susceptible mice display aberrations in intracellular calcium signaling and mitochondrial function. <i>Cell Calcium</i> , 2021, 93, 102325.	2.4	5
9	Transcriptomic analysis of Multiple Sclerosis patient-derived monocytes by RNA-Sequencing for candidate gene discovery. <i>Informatics in Medicine Unlocked</i> , 2021, 23, 100563.	3.4	1
10	Application of machine learning in understanding atherosclerosis: Emerging insights. <i>APL Bioengineering</i> , 2021, 5, 011505.	6.2	14
11	Identifying Top Predictors of Change in Noncalcified Coronary Burden in Psoriasis by Machine Learning Over 1-Year. <i>Journal of Psoriasis and Psoriatic Arthritis</i> , 2021, 6, 113-117.	0.7	0
12	X-ROS Signaling Depends on Length-Dependent Calcium Buffering by Troponin. <i>Cells</i> , 2021, 10, 1189.	4.1	5
13	Effect of crista morphology on mitochondrial ATP output: A computational study. <i>Current Research in Physiology</i> , 2021, 4, 163-176.	1.7	28
14	Cardiac Alternans Occurs through the Synergy of Voltage- and Calcium-Dependent Mechanisms. <i>Membranes</i> , 2021, 11, 794.	3.0	9
15	Data Mining of Molecular Simulations Suggest Key Amino Acid Residues for Aggregation, Signaling and Drug Action. <i>Biomolecules</i> , 2021, 11, 1541.	4.0	2
16	In Silico Prediction of the Phosphorylation of NS3 as an Essential Mechanism for Dengue Virus Replication and the Antiviral Activity of Quercetin. <i>Biology</i> , 2021, 10, 1067.	2.8	5
17	A Stochastic Spatiotemporal Model of Rat Ventricular Myocyte Calcium Dynamics Demonstrated Necessary Features for Calcium Wave Propagation. <i>Membranes</i> , 2021, 11, 989.	3.0	9
18	Application of machine learning to determine top predictors of noncalcified coronary burden in psoriasis: An observational cohort study. <i>Journal of the American Academy of Dermatology</i> , 2020, 83, 1647-1653.	1.2	20

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19	lncRNAKB, a knowledgebase of tissue-specific functional annotation and trait association of long noncoding RNA. Scientific Data, 2020, 7, 326.	5.3	40
20	Ca ²⁺ signaling in T lymphocytes: the interplay of the endoplasmic reticulum, mitochondria, membrane potential, and CRAC channels on transcription factor activation. Heliyon, 2020, 6, e03526.	3.2	18
21	Slow-Rapid-Slow Pacing in the Heart Having CASQ2G112+5X Gene Mutation Produces Eads as the Mechanism of CPVT During Adrenergic Stimulation. Biophysical Journal, 2020, 118, 566a.	0.5	0
22	Neuropeptide S receptor gene Asn107 polymorphism in obese male individuals in Pakistan. PLoS ONE, 2020, 15, e0243205.	2.5	3
23	Neuropeptide S receptor gene Asn107 polymorphism in obese male individuals in Pakistan. , 2020, 15, e0243205.		0
24	Neuropeptide S receptor gene Asn107 polymorphism in obese male individuals in Pakistan. , 2020, 15, e0243205.		0
25	Neuropeptide S receptor gene Asn107 polymorphism in obese male individuals in Pakistan. , 2020, 15, e0243205.		0
26	Neuropeptide S receptor gene Asn107 polymorphism in obese male individuals in Pakistan. , 2020, 15, e0243205.		0
27	Neuropeptide S receptor gene Asn107 polymorphism in obese male individuals in Pakistan. , 2020, 15, e0243205.		0
28	Neuropeptide S receptor gene Asn107 polymorphism in obese male individuals in Pakistan. , 2020, 15, e0243205.		0
29	Neuropeptide S receptor gene Asn107 polymorphism in obese male individuals in Pakistan. , 2020, 15, e0243205.		0
30	Neuropeptide S receptor gene Asn107 polymorphism in obese male individuals in Pakistan. , 2020, 15, e0243205.		0
31	Translational Applications of Protein Structure Simulation: Predicting Phenotype of Missense Variants. Biophysical Journal, 2019, 116, 13a.	0.5	3
32	SNP2SIM: a modular workflow for standardizing molecular simulation and functional analysis of protein variants. BMC Bioinformatics, 2019, 20, 171.	2.6	7
33	Cardiac Calcium Signaling and Mitochondrial Metabolic Function. Biophysical Journal, 2019, 116, 270a.	0.5	0
34	Ionotropic and Metabotropic Mechanisms of Allosteric Modulation of $\alpha 7$ Nicotinic Receptor Intracellular Calcium. Molecular Pharmacology, 2018, 93, 601-611.	2.3	39
35	Mitochondrial Permeability Transition Pore and Number of Openings. Biophysical Journal, 2017, 112, 440a.	0.5	1
36	Ryanodine receptor sensitivity governs the stability and synchrony of local calcium release during cardiac excitation-contraction coupling. Journal of Molecular and Cellular Cardiology, 2016, 92, 82-92.	1.9	37

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37	Calcium sparks in the heart: dynamics and regulation. <i>Research and Reports in Biology</i> , 2015, 6, 203.	0.2	18
38	Ryanodine receptor cluster fragmentation and redistribution in persistent atrial fibrillation enhance calcium release. <i>Cardiovascular Research</i> , 2015, 108, 387-398.	3.8	93
39	Modeling Local X-ROS and Calcium Signaling in the Heart. <i>Biophysical Journal</i> , 2015, 109, 2037-2050.	0.5	28
40	The Phase Lag between Agonist-Induced Oscillatory Ca and IP Signals Does Not Imply Causality (December 2015). <i>Calcium Signaling</i> , 2015, 2, 1-10.	0.0	1
41	Mechanisms of Myofascial Pain. <i>International Scholarly Research Notices</i> , 2014, 2014, 1-16.	0.9	127
42	Modeling Mitochondrial Function and Its Role in Disease. <i>Progress in Molecular Biology and Translational Science</i> , 2014, 123, 103-125.	1.7	9
43	Superresolution Modeling of Calcium Release in the Heart. <i>Biophysical Journal</i> , 2014, 107, 3018-3029.	0.5	96
44	A Small Number of Cells is Sufficient to Trigger a Cardiac Arrhythmia: Stochastic Computational Studies. <i>Biophysical Journal</i> , 2014, 106, 112a.	0.5	2
45	Dynamics of Calcium Sparks and SR Calcium Leak During Excitation-Contraction Coupling in Mouse Heart Cells. <i>Biophysical Journal</i> , 2014, 106, 320a-321a.	0.5	0
46	Ionic Regulation of Mitochondrial ROS Dynamics: A Computational Modeling Study. <i>Biophysical Journal</i> , 2013, 104, 305a.	0.5	1
47	The connection between inner membrane topology and mitochondrial function. <i>Journal of Molecular and Cellular Cardiology</i> , 2013, 62, 51-57.	1.9	101
48	Models of Excitation-Contracton Coupling in Cardiac Ventricular Myocytes. <i>Methods in Molecular Biology</i> , 2012, 910, 309-335.	0.9	19
49	Stimulated Emission Depletion Live-Cell Super-Resolution Imaging Shows Proliferative Remodeling of T-Tubule Membrane Structures After Myocardial Infarction. <i>Circulation Research</i> , 2012, 111, 402-414.	4.5	179
50	Dynamics of Calcium Sparks and Calcium Leak in the Heart. <i>Biophysical Journal</i> , 2011, 101, 1287-1296.	0.5	112
51	Stochastic simulation of cardiac ventricular myocyte calcium dynamics and waves. , 2011, 2011, 4677-80.		3
52	Predicting Local SR Ca ²⁺ Dynamics during Ca ²⁺ Wave Propagation in Ventricular Myocytes. <i>Biophysical Journal</i> , 2010, 98, 2515-2523.	0.5	34
53	Models of cardiac excitation-contraction coupling in ventricular myocytes. <i>Mathematical Biosciences</i> , 2010, 226, 1-15.	1.9	53
54	A Technique to Accelerate Stochastic Markov Chain Monte Carlo Simulations of Calcium-Induced Calcium Release in Cardiac Myocytes. <i>Biophysical Journal</i> , 2010, 98, 295a.	0.5	0

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55	Using phase relations to identify potential mechanisms for metabolic oscillations in isolated β^2 -cell mitochondria. <i>Islets</i> , 2009, 1, 87-94.	1.8	11
56	Moment Closure for Local Control Models of Calcium-Induced Calcium Release in Cardiac Myocytes. <i>Biophysical Journal</i> , 2008, 95, 1689-1703.	0.5	44
57	NON-SPATIAL WHOLE CELL MODELS OF GLOBAL CALCIUM RESPONSES THAT ACCOUNT FOR HETEROGENEOUS DOMAIN CALCIUM CONCENTRATIONS. , 2008, , .		0
58	Effect of Ca^{2+} on cardiac mitochondrial energy production is modulated by Na^+ and H^+ dynamics. <i>American Journal of Physiology - Cell Physiology</i> , 2007, 292, C2004-C2020.	4.6	57
59	A Probability Density Approach to Modeling Local Control of Calcium-Induced Calcium Release in Cardiac Myocytes. <i>Biophysical Journal</i> , 2007, 92, 2311-2328.	0.5	62
60	Modeling the mechanism of metabolic oscillations in ischemic cardiac myocytes. <i>Journal of Theoretical Biology</i> , 2006, 242, 801-817.	1.7	21
61	NFAT and NF κ B Activation in T Lymphocytes: A Model of Differential Activation of Gene Expression. <i>Annals of Biomedical Engineering</i> , 2006, 34, 1712-1728.	2.5	59
62	The Ca^{2+} leak paradox and ϵ -croguer ryanodine receptors ϵ : SR Ca^{2+} efflux theory and practice. <i>Progress in Biophysics and Molecular Biology</i> , 2006, 90, 172-185.	2.9	110
63	Mitochondrial Calcium Signaling and Energy Metabolism. <i>Annals of the New York Academy of Sciences</i> , 2005, 1047, 127-137.	3.8	48
64	DYNAMICS OF CARDIAC INTRACELLULAR Ca^{2+} HANDLING ϵ " FROM EXPERIMENTS TO VIRTUAL CELLS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2003, 13, 3535-3560.	1.7	1
65	Local Ca^{2+} Signaling and EC Coupling in Heart: Ca^{2+} Sparks and the Regulation of the $[Ca^{2+}]_i$ Transient. <i>Journal of Molecular and Cellular Cardiology</i> , 2002, 34, 941-950.	1.9	99
66	Termination of Cardiac Ca^{2+} Sparks: An Investigative Mathematical Model of Calcium-Induced Calcium Release. <i>Biophysical Journal</i> , 2002, 83, 59-78.	0.5	286
67	Cardiac Energy Metabolism: Models of Cellular Respiration. <i>Annual Review of Biomedical Engineering</i> , 2001, 3, 57-81.	12.3	81
68	Modeling short-term interval-force relations in cardiac muscle. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2000, 278, H913-H931.	3.2	60
69	Electrophysiological Modeling of Cardiac Ventricular Function: From Cell to Organ. <i>Annual Review of Biomedical Engineering</i> , 2000, 2, 119-155.	12.3	110
70	Mechanisms of Altered Excitation-Contraction Coupling in Canine Tachycardia-Induced Heart Failure, II. <i>Circulation Research</i> , 1999, 84, 571-586.	4.5	557
71	Subcellular $[Ca^{2+}]_i$ Gradients During Excitation-Contraction Coupling in Newborn Rabbit Ventricular Myocytes. <i>Circulation Research</i> , 1999, 85, 415-427.	4.5	158
72	Modeling Gain and Gradedness of Ca^{2+} Release in the Functional Unit of the Cardiac Diadic Space. <i>Biophysical Journal</i> , 1999, 77, 1871-1884.	0.5	105

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73	Cardiac Sodium Channel Markov Model with Temperature Dependence and Recovery from Inactivation. <i>Biophysical Journal</i> , 1999, 76, 1868-1885.	0.5	70
74	Modeling Short-Term Interval-Force Relations in Cardiac Muscle. <i>Annals of the New York Academy of Sciences</i> , 1998, 853, 345-349.	3.8	7
75	Modeling the cellular basis of altered excitation-contraction coupling in heart failure. <i>Progress in Biophysics and Molecular Biology</i> , 1998, 69, 497-514.	2.9	35
76	Cardiac Ca ²⁺ Dynamics: The Roles of Ryanodine Receptor Adaptation and Sarcoplasmic Reticulum Load. <i>Biophysical Journal</i> , 1998, 74, 1149-1168.	0.5	300
77	Agonist-induced calcium waves in oscillatory cells: A biological example of Burgers' equation. <i>Bulletin of Mathematical Biology</i> , 1997, 59, 1125-1144.	1.9	18
78	Agonist-induced calcium waves in oscillatory cells: A biological example of Burgers' equation. <i>Bulletin of Mathematical Biology</i> , 1997, 59, 1125-1144.	1.9	6
79	A theoretical study of cytosolic calcium waves in xenopus oocytes. <i>Journal of Theoretical Biology</i> , 1995, 172, 209-216.	1.7	23
80	On the roles of Ca ²⁺ diffusion, Ca ²⁺ buffers, and the endoplasmic reticulum in IP ₃ -induced Ca ²⁺ waves. <i>Biophysical Journal</i> , 1995, 69, 2139-2153.	0.5	129
81	A membrane potential model with counterions for cytosolic calcium oscillations. <i>Cell Calcium</i> , 1994, 16, 9-19.	2.4	22
82	Diffusion of inositol 1,4,5-trisphosphate but not Ca ²⁺ is necessary for a class of inositol 1,4,5-trisphosphate-induced Ca ²⁺ waves.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994, 91, 9485-9489.	7.1	41
83	Disulfide bonding patterns and protein topologies. <i>Protein Science</i> , 1993, 2, 41-54.	7.6	51
84	A membrane model for cytosolic calcium oscillations. A study using <i>Xenopus</i> oocytes. <i>Biophysical Journal</i> , 1992, 63, 235-246.	0.5	59
85	Models of Cardiac Ca ²⁺ -Induced Ca ²⁺ Release and Ca ²⁺ Sparks. <i>Lecture Notes in Physics</i> , 0, , 97-114.	0.7	3