

# Chon-Lok Lei

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7614460/publications.pdf>

Version: 2024-02-01

19  
papers

419  
citations

933264

10  
h-index

1058333

14  
g-index

24  
all docs

24  
docs citations

24  
times ranked

400  
citing authors

#	ARTICLE	IF	CITATIONS
1	Learning transmission dynamics modelling of COVID-19 using comodels. <i>Mathematical Biosciences</i> , 2022, 349, 108824.	0.9	4
2	Neural Network Differential Equations For Ion Channel Modelling. <i>Frontiers in Physiology</i> , 2021, 12, 708944.	1.3	3
3	3D printed biomimetic cochleae and machine learning co-modelling provides clinical informatics for cochlear implant patients. <i>Nature Communications</i> , 2021, 12, 6260.	5.8	19
4	Nicotinamide promotes cardiomyocyte derivation and survival through kinase inhibition in human pluripotent stem cells. <i>Cell Death and Disease</i> , 2021, 12, 1119.	2.7	4
5	Automated High-Throughput Patch Clamp and Modelling to Capture hERG Kinetics and Temperature Dependence using Optimised Voltage Protocols. <i>Biophysical Journal</i> , 2020, 118, 570a.	0.2	0
6	An audit of uncertainty in multi-scale cardiac electrophysiology models. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20190335.	1.6	25
7	Accounting for variability in ion current recordings using a mathematical model of artefacts in voltage-clamp experiments. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20190348.	1.6	38
8	Considering discrepancy when calibrating a mechanistic electrophysiology model. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20190349.	1.6	46
9	Calibration of ionic and cellular cardiac electrophysiology models. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2020, 12, e1482.	6.6	62
10	A nonlinear and time-dependent leak current in the presence of calcium fluoride patch-clamp seal enhancer. <i>Wellcome Open Research</i> , 2020, 5, 152.	0.9	6
11	Rapid Characterization of hERG Channel Kinetics I: Using an Automated High-Throughput System. <i>Biophysical Journal</i> , 2019, 117, 2438-2454.	0.2	39
12	Rapid Characterization of hERG Channel Kinetics II: Temperature Dependence. <i>Biophysical Journal</i> , 2019, 117, 2455-2470.	0.2	38
13	High-throughput measurement and modeling of hERG kinetics using an automated platform. <i>Journal of Pharmacological and Toxicological Methods</i> , 2019, 99, 106595.	0.3	0
14	Probabilistic Inference on Noisy Time Series (PINTS). <i>Journal of Open Research Software</i> , 2019, 7, 23.	2.7	41
15	Tailoring in silico model to electrophysiology of individual iPSC-derived cardiomyocyte lines: One-size fits all?. <i>Journal of Pharmacological and Toxicological Methods</i> , 2018, 93, 144.	0.3	0
16	Beta-cell hubs maintain $Ca^{2+}$ oscillations in human and mouse islet simulations. <i>Islets</i> , 2018, 10, 151-167.	0.9	43
17	Tailoring Mathematical Models to Stem-Cell Derived Cardiomyocyte Lines Can Improve Predictions of Drug-Induced Changes to Their Electrophysiology. <i>Frontiers in Physiology</i> , 2017, 8, 986.	1.3	42
18	Development, Implementation and Testing of a Multicellular Dynamic Action Potential Clamp Simulator for Drug Cardiac Safety Assessment. , 0, , .		0

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19	A nonlinear and time-dependent leak current in the presence of calcium fluoride patch-clamp seal enhancer. Wellcome Open Research, 0, 5, 152.	0.9	6