

# Ryan L Melvin

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/847180/publications.pdf>

Version: 2024-02-01

17  
papers

180  
citations

1163117

8  
h-index

1125743

13  
g-index

17  
all docs

17  
docs citations

17  
times ranked

205  
citing authors

#	ARTICLE	IF	CITATIONS
1	Uncovering Large-Scale Conformational Change in Molecular Dynamics without Prior Knowledge. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 6130-6146.	5.3	39
2	Mechanistic insights into thrombin's switch between "slow" and "fast" forms. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 24522-24533.	2.8	24
3	Visualizing ensembles in structural biology. <i>Journal of Molecular Graphics and Modelling</i> , 2016, 67, 44-53.	2.4	20
4	Binding Site Configurations Probe the Structure and Dynamics of the Zinc Finger of NEMO (NF- $\kappa$ B). <i>Journal of Molecular Graphics and Modelling</i> , 2016, 67, 44-53.	2.5	20
5	Visualizing correlated motion with HDBSCAN clustering. <i>Protein Science</i> , 2018, 27, 62-75.	7.6	17
6	Probing light chain mutation effects on thrombin via molecular dynamics simulations and machine learning. <i>Journal of Biomolecular Structure and Dynamics</i> , 2019, 37, 982-999.	3.5	15
7	All-Atom Molecular Dynamics Reveals Mechanism of Zinc Complexation with Therapeutic F10. <i>Journal of Physical Chemistry B</i> , 2016, 120, 10269-10279.	2.6	10
8	MutS's Multi-Domain Allosteric Response to Three DNA Damage Types Revealed by Machine Learning. <i>Frontiers in Physics</i> , 2017, 5, .	2.1	8
9	Development of An Individualized Risk Prediction Model for COVID-19 Using Electronic Health Record Data. <i>Frontiers in Big Data</i> , 2021, 4, 675882.	2.9	7
10	A social perspective on perceived distances reveals deep community structure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	5
11	All-Atom MD Predicts Magnesium-Induced Hairpin in Chemically Perturbed RNA Analog of F10 Therapeutic. <i>Journal of Physical Chemistry B</i> , 2017, 121, 7803-7812.	2.6	3
12	All-atom MD indicates ion-dependent behavior of therapeutic DNA polymer. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 22363-22374.	2.8	3
13	End-of-Procedure Volume Responsiveness Defined by the Passive Leg Raise Test Is Not Associated With Acute Kidney Injury After Cardiopulmonary Bypass. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2021, 35, 1299-1306.	1.3	3
14	Intraoperative utilisation of high-resolution data for cerebral autoregulation: a feasibility study. <i>British Journal of Anaesthesia</i> , 2022, 128, e217-e219.	3.4	3
15	Artificial Intelligence in Perioperative Medicine: A Proposed Common Language With Applications to FDA-Approved Devices. <i>Frontiers in Digital Health</i> , 2022, 4, 872675.	2.8	2
16	Cluster-based network proximities for arbitrary nodal subsets. <i>Scientific Reports</i> , 2018, 8, 14371.	3.3	1
17	Using correlated motions to determine sufficient sampling times for molecular dynamics. <i>Physical Review E</i> , 2018, 98, 023307.	2.1	0