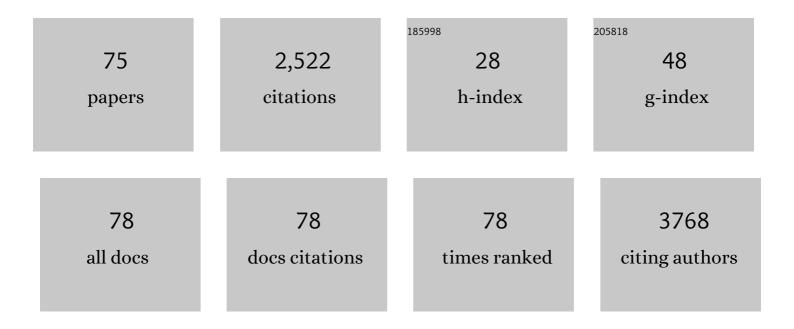
List of Publications by Year in descending order

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ALEY RUNKED

#	Article	IF	CITATIONS
1	Multiscale modeling of emergent materials: biological and soft matter. Physical Chemistry Chemical Physics, 2009, 11, 1869.	1.3	243
2	Cholesterol level affects surface charge of lipid membranes in saline solution. Scientific Reports, 2014, 4, 5005.	1.6	157
3	Rational design of liposomal drug delivery systems, a review: Combined experimental and computational studies of lipid membranes, liposomes and their PEGylation. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 2334-2352.	1.4	146
4	Indocyanine Green-Loaded Liposomes for Light-Triggered Drug Release. Molecular Pharmaceutics, 2016, 13, 2095-2107.	2.3	102
5	Study of PEGylated Lipid Layers as a Model for PEGylated Liposome Surfaces: Molecular Dynamics Simulation and Langmuir Monolayer Studies. Langmuir, 2011, 27, 7788-7798.	1.6	95
6	Fast spin dynamics algorithms for classical spin systems. Computer Physics Communications, 1998, 111, 1-13.	3.0	79
7	Oncolytic adenoviruses coated with MHC-I tumor epitopes increase the antitumor immunity and efficacy against melanoma. Oncolmmunology, 2016, 5, e1105429.	2.1	70
8	Influence of doxorubicin on model cell membrane properties: insights from in vitro and in silico studies. Scientific Reports, 2017, 7, 6343.	1.6	70
9	Molecular Dynamics Simulation of PEGylated Bilayer Interacting with Salt Ions: A Model of the Liposome Surface in the Bloodstream. Journal of Physical Chemistry B, 2012, 116, 4212-4219.	1.2	64
10	Poly(Ethylene Glycol) in Drug Delivery, Why Does it Work, and Can We do Better? All Atom Molecular Dynamics Simulation Provides Some Answers. Physics Procedia, 2012, 34, 24-33.	1.2	63
11	Glycolipid Membranes through Atomistic Simulations:  Effect of Glucose and Galactose Head Groups on Lipid Bilayer Properties. Journal of Physical Chemistry B, 2007, 111, 10146-10154.	1.2	61
12	Effects of the Lipid Bilayer Phase State on the Water Membrane Interface. Journal of Physical Chemistry B, 2010, 114, 11784-11792.	1.2	58
13	Analysis of cause of failure of new targeting peptide in PEGylated liposome: Molecular modeling as rational design tool for nanomedicine. European Journal of Pharmaceutical Sciences, 2012, 46, 121-130.	1.9	58
14	Mechanistic Understanding From Molecular Dynamics Simulation in Pharmaceutical Research 1: Drug Delivery. Frontiers in Molecular Biosciences, 2020, 7, 604770.	1.6	54
15	Study of Interaction Between PEG Carrier and Three Relevant Drug Molecules: Piroxicam, Paclitaxel, and Hematoporphyrin. Journal of Physical Chemistry B, 2012, 116, 7334-7341.	1.2	51
16	Strong preferences of dopamine and <scp>l</scp> â€dopa towards lipid head group: importance of lipid composition and implication for neurotransmitter metabolism. Journal of Neurochemistry, 2012, 122, 681-690.	2.1	51
17	Molecular dynamics, crystallography and mutagenesis studies on the substrate gating mechanism of prolyl oligopeptidase. Biochimie, 2012, 94, 1398-1411.	1.3	47
18	PEGylated Liposomes as Carriers of Hydrophobic Porphyrins. Journal of Physical Chemistry B, 2015, 119, 6646-6657.	1.2	47

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19	Parallel excluded volume tempering for polymer melts. Physical Review E, 2000, 63, 016701.	0.8	45
20	Interactions between Chloramphenicol, Carrier Polymers, and Bacteria–Implications for Designing Electrospun Drug Delivery Systems Countering Wound Infection. Molecular Pharmaceutics, 2017, 14, 4417-4430.	2.3	45
21	The effect of light sensitizer localization on the stability of indocyanine green liposomes. Journal of Controlled Release, 2018, 284, 213-223.	4.8	43
22	Molecular Dynamics Simulations of the Bacterial ABC Transporter SAV1866 in the Closed Form. Journal of Physical Chemistry B, 2012, 116, 2934-2942.	1.2	38
23	Multiple-histogram Monte Carlo study of the Ising antiferromagnet on a stacked triangular lattice. Physical Review B, 1993, 48, 15861-15872.	1.1	35
24	Dissociation and thermodynamics of dense fluid hydrogen. Physical Review B, 1997, 56, 3094-3098.	1.1	33
25	Tat(48-60) peptide amino acid sequence is not unique in its cell penetrating properties and cell-surface glycosaminoglycans inhibit its cellular uptake. Journal of Controlled Release, 2012, 158, 277-285.	4.8	33
26	Biophysical Characterization of Supported Lipid Bilayers Using Parallel Dual-Wavelength Surface Plasmon Resonance and Quartz Crystal Microbalance Measurements. Langmuir, 2018, 34, 8081-8091.	1.6	32
27	Critical dynamics of the body-centered-cubic classical Heisenberg antiferromagnet. Physical Review B, 1996, 54, 9259-9266.	1.1	28
28	Use of Umbrella Sampling to Calculate the Entrance/Exit Pathway for Z-Pro-Prolinal Inhibitor in Prolyl Oligopeptidase. Journal of Chemical Theory and Computation, 2011, 7, 1583-1594.	2.3	28
29	Design of cholesterol arabinogalactan anchored liposomes for asialoglycoprotein receptor mediated targeting to hepatocellular carcinoma: In silic o modeling, in vitro and in vivo evaluation. International Journal of Pharmaceutics, 2016, 509, 149-158.	2.6	28
30	Electron-positron pair creation with capture and ionization in relativistic heavy-ion collisions by the finite-difference method. Physical Review A, 1992, 46, 2607-2612.	1.0	27
31	Hydrophobin Film Structure for HFBI and HFBII and Mechanism for Accelerated Film Formation. PLoS Computational Biology, 2014, 10, e1003745.	1.5	27
32	Classical ferromagnet with double-exchange interaction: High-resolution Monte Carlo simulations. Physical Review B, 2000, 62, 9458-9462.	1.1	26
33	Spin-dynamics simulations of the magnetic dynamics ofRbMnF3and direct comparison with experiment. Physical Review B, 2000, 61, 333-342.	1.1	26
34	Effect of PEGylation on Drug Entry into Lipid Bilayer. Journal of Physical Chemistry B, 2014, 118, 144-151.	1.2	26
35	Molecular Dynamics Simulation of PEGylated Membranes with Cholesterol: Building Toward the DOXIL Formulation. Journal of Physical Chemistry C, 2014, 118, 15541-15549.	1.5	25
36	A novel <i>in silico</i> framework to improve MHC-I epitopes and break the tolerance to melanoma. Oncolmmunology, 2017, 6, e1319028.	2.1	25

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37	Detection of Listeria innocua on roll-to-roll produced SERS substrates with gold nanoparticles. RSC Advances, 2016, 6, 62981-62989.	1.7	23
38	Characterization of membrane–foulant interactions with novel combination of Raman spectroscopy, surface plasmon resonance and molecular dynamics simulation. Separation and Purification Technology, 2018, 205, 263-272.	3.9	23
39	Mechanistic Understanding from Molecular Dynamics in Pharmaceutical Research 2: Lipid Membrane in Drug Design. Pharmaceuticals, 2021, 14, 1062.	1.7	23
40	Force Biased Molecular Dynamics Simulation Study of Effect of Dendrimer Generation on Interaction with DNA. Journal of Chemical Theory and Computation, 2013, 9, 722-729.	2.3	22
41	Membrane bound COMT isoform is an interfacial enzyme: general mechanism and new drug design paradigm. Chemical Communications, 2018, 54, 3440-3443.	2.2	20
42	Longitudinal Magnetic Excitations in Classical Spin Systems. Physical Review Letters, 2000, 85, 2601-2604.	2.9	19
43	Effects of Membrane PEGylation on Entry and Location of Antifungal Drug Itraconazole and Their Pharmacological Implications. Molecular Pharmaceutics, 2017, 14, 1057-1070.	2.3	19
44	Fluid dynamics modeling for synchronizing surface plasmon resonance and quartz crystal microbalance as tools for biomolecular and targeted drug delivery studies. Journal of Colloid and Interface Science, 2012, 378, 251-259.	5.0	18
45	In Vitro and in Vivo Behavior of Liposomes Decorated with PEGs with Different Chemical Features. Molecular Pharmaceutics, 2020, 17, 472-487.	2.3	18
46	Dissociation and Thermodynamics in Dense Hydrogen Fluid. Contributions To Plasma Physics, 1997, 37, 115-128.	0.5	17
47	Stearylated cycloarginine nanosystems for intracellular delivery – simulations, formulation and proof of concept. RSC Advances, 2016, 6, 113538-113550.	1.7	17
48	A computational study suggests that replacing PEG with PMOZ may increase exposure of hydrophobic targeting moiety. European Journal of Pharmaceutical Sciences, 2017, 103, 128-135.	1.9	17
49	Effect of piroxicam on lipid membranes: Drug encapsulation and gastric toxicity aspects. European Journal of Pharmaceutical Sciences, 2017, 100, 116-125.	1.9	16
50	Properties of the Membrane Binding Component of Catechol- <i>O</i> -methyltransferase Revealed by Atomistic Molecular Dynamics Simulations. Journal of Physical Chemistry B, 2011, 115, 13541-13550.	1.2	15
51	Molecular Dynamics Simulation of Inverse-Phosphocholine Lipids. Journal of Physical Chemistry C, 2014, 118, 19444-19449.	1.5	14
52	Cholesterol Reduces Partitioning of Antifungal Drug Itraconazole into Lipid Bilayers. Journal of Physical Chemistry B, 2020, 124, 2139-2148.	1.2	12
53	Molecular dynamics simulations of the enzyme Catechol-O-Methyltransferase: methodological issues. SAR and QSAR in Environmental Research, 2008, 19, 179-189.	1.0	11
54	IMPROVED SPIN DYNAMICS SIMULATIONS OF MAGNETIC EXCITATIONS. International Journal of Modern Physics C, 1999, 10, 1541-1551.	0.8	10

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55	Molecular dynamics study of prolyl oligopeptidase with inhibitor in binding cavity. SAR and QSAR in Environmental Research, 2009, 20, 595-609.	1.0	10
56	Comparison of timeâ€gated surfaceâ€enhanced raman spectroscopy (TG‣ERS) and classical SERS based monitoring of Escherichia coli cultivation samples. Biotechnology Progress, 2018, 34, 1533-1542.	1.3	10
57	Lipid Architectonics for Superior Oral Bioavailability of Nelfinavir Mesylate: Comparative in vitro and in vivo Assessment. AAPS PharmSciTech, 2018, 19, 3584-3598.	1.5	9
58	Control of Peptide Aggregation and Fibrillation by Physical PEGylation. Biomacromolecules, 2018, 19, 3958-3969.	2.6	9
59	Insight into the antimicrobial mechanism of action of β2,2-amino acid derivatives from molecular dynamics simulation: Dancing the can-can at the membrane surface. Biochimica Et Biophysica Acta - Biomembranes, 2019, 1861, 183028.	1.4	9
60	Mechanistic Insight into How PEGylation Reduces the Efficacy of pH-Sensitive Liposomes from Molecular Dynamics Simulations. Molecular Pharmaceutics, 2021, 18, 2612-2621.	2.3	8
61	Spin Dynamics Simulations. Progress of Theoretical Physics Supplement, 2000, 138, 423-432.	0.2	7
62	Determinants of Orexin Receptor Binding and Activation—A Molecular Dynamics Study. Journal of Physical Chemistry B, 2019, 123, 2609-2622.	1.2	6
63	Rigorous Computational Study Reveals What Docking Overlooks: Double Trouble from Membrane Association in Protein Kinase C Modulators. Journal of Chemical Information and Modeling, 2020, 60, 5624-5633.	2.5	6
64	Oligomerization Alters Binding Affinity between Amyloid Beta and a Modulator of Peptide Aggregation. Journal of Physical Chemistry C, 2017, 121, 23974-23987.	1.5	4
65	Glyceryl Monostearate: Probing the Self Assembly of a Lipid Amenable To Surface Modification for Hepatic Targeting. Journal of Physical Chemistry C, 2018, 122, 22160-22169.	1.5	4
66	Insights into the behavior of unsaturated diacylglycerols in mixed lipid bilayers in relation to protein kinase C activation—A molecular dynamics simulation study. Biochimica Et Biophysica Acta - Biomembranes, 2022, 1864, 183961.	1.4	4
67	Critical dynamics of the bcc classical Heisenberg magnets. Journal of Magnetism and Magnetic Materials, 1995, 140-144, 1473-1474.	1.0	3
68	Reply to â€~ã€~Comment on â€~Multiple-histogram Monte Carlo study of the Ising antiferromagnet on a stacked triangular lattice' ''. Physical Review B, 1995, 52, 1415-1416.	1.1	3
69	SPIN DYNAMICS SIMULATIONS OF CLASSICAL, THREE-DIMENSIONAL HEISENBERG MAGNETS. International Journal of Modern Physics C, 1996, 07, 401-408.	0.8	3
70	Critical dynamics of the anisotropic BCC Heisenberg antiferromagnet. Journal of Magnetism and Magnetic Materials, 1998, 177-181, 161-162.	1.0	2
71	Magnetic excitations and critical dynamics in RbMnF3: simulation versus theory and experiment. Journal of Magnetism and Magnetic Materials, 2001, 226-230, 550-552.	1.0	2
72	Dynamic critical behavior of the classical anisotropic BCC Heisenberg antiferromagnet. Computer Physics Communications, 2002, 147, 97-100.	3.0	1

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73	The Interactions of Dopamine and L-Dopa with Lipid Headgroup and its Implication for Neurotransmitters Metabolism. Biophysical Journal, 2013, 104, 498a.	0.2	0
74	642. Oncolytic Vaccines with Modified Tumor Epitopes for Cancer Immunotherapy. Molecular Therapy, 2016, 24, S254.	3.7	0
75	Equation of State and Metal-Nonmetal Transition in Dense Hydrogen Fluid. , 2002, , 365-368.		0