

# Li-Jun Liang

## List of Publications by Year in descending order

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71  
papers

1,516  
citations

279701

23  
h-index

360920

35  
g-index

71  
all docs

71  
docs citations

71  
times ranked

1942  
citing authors

#	ARTICLE	IF	CITATIONS
1	Theoretical Investigation of Chitosan-Assisted Controlled Release of Digestive System Antitumor Drug Fluorouracil. <i>Journal of Pharmaceutical Sciences</i> , 2022, 111, 2049-2055.	1.6	1
2	Dynamics of electric field-controlled methotrexate delivery through membrane nanochannels. <i>Journal of Molecular Liquids</i> , 2022, 350, 118525.	2.3	0
3	Graphene-based woven filter membrane with excellent strength and efficiency for water desalination. <i>Desalination</i> , 2022, 533, 115775.	4.0	13
4	Pore Formation Mechanism of A-Beta Peptide on the Fluid Membrane: A Combined Coarse-Grained and All-Atomic Model. <i>Molecules</i> , 2022, 27, 3924.	1.7	1
5	A review on the cytotoxicity of graphene quantum dots: from experiment to simulation. <i>Nanoscale Advances</i> , 2021, 3, 904-917.	2.2	34
6	Simultaneous binding mechanism of multiple substrates for multidrug resistance transporter P-glycoprotein. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 4530-4543.	1.3	10
7	Effect of Shape on the Entering of Graphene Quantum Dots into a Membrane: A Molecular Dynamics Simulation. <i>ACS Omega</i> , 2021, 6, 10936-10943.	1.6	17
8	Molecular insights into desalination performance of lamellar graphene membranes: Significant of hydrophobicity and interlayer spacing. <i>Journal of Molecular Liquids</i> , 2021, 333, 116024.	2.3	21
9	A machine learning vibrational spectroscopy protocol for spectrum prediction and spectrum-based structure recognition. <i>Fundamental Research</i> , 2021, 1, 488-494.	1.6	19
10	Direct proof of soft knock-on mechanism of ion permeation in a voltage gated sodium channel. <i>International Journal of Biological Macromolecules</i> , 2021, 188, 369-374.	3.6	1
11	Theoretical investigation on the adsorption orientation of DNA on two-dimensional MoSe <sub>2</sub> . <i>Chemical Physics</i> , 2021, 551, 111329.	0.9	2
12	A review on desalination by graphene-based biomimetic nanopore: From the computational modelling perspective. <i>Journal of Molecular Liquids</i> , 2021, 342, 117582.	2.3	12
13	Release of an Encapsulated Peptide from Carbon Nanotubes Driven by Electric Fields: A Molecular Dynamics Study. <i>ACS Omega</i> , 2021, 6, 27485-27490.	1.6	4
14	Data-Driven Design of Nanopore Graphene for Water Desalination. <i>Journal of Physical Chemistry C</i> , 2021, 125, 27685-27692.	1.5	12
15	Study on the adsorption orientation of DNA on two-dimensional MoS <sub>2</sub> surface via molecular dynamics simulation: A vertical orientation phenomenon. <i>Chemical Physics</i> , 2020, 529, 110546.	0.9	14
16	A molecular dynamics study on water desalination using single-layer MoSe <sub>2</sub> nanopore. <i>Journal of Membrane Science</i> , 2020, 595, 117611.	4.1	40
17	DNA fragment translocation through the lipid membrane assisted by carbon nanotube. <i>International Journal of Pharmaceutics</i> , 2020, 574, 118921.	2.6	8
18	Molecular dynamics study on loading mechanism of chitosan into boron nitride nanotubes. <i>Journal of Molecular Liquids</i> , 2020, 297, 111753.	2.3	7

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19	Characterization of water structure in carbon nanotubes by various order parameters. <i>Chemical Physics</i> , 2020, 538, 110887.	0.9	1
20	Molecular dynamics study on the adsorption and release of doxorubicin by chitosan-decorated graphene. <i>Carbohydrate Polymers</i> , 2020, 248, 116809.	5.1	20
21	Theoretical Evaluation of DNA Genotoxicity of Graphene Quantum Dots: A Combination of Density Functional Theory and Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2020, 124, 9335-9342.	1.2	26
22	On the mechanism of graphene quantum dot encapsulation by chitosan: A molecular dynamics study. <i>Journal of Molecular Liquids</i> , 2020, 320, 113453.	2.3	7
23	Understanding the effect of hydroxyl/epoxy group on water desalination through lamellar graphene oxide membranes via molecular dynamics simulation. <i>Desalination</i> , 2020, 491, 114560.	4.0	47
24	Molecular dynamics study on the encapsulation and release of anti-cancer drug doxorubicin by chitosan. <i>International Journal of Pharmaceutics</i> , 2020, 580, 119241.	2.6	41
25	Atomistic insights into the separation mechanism of multilayer graphene membranes for water desalination. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 7224-7233.	1.3	27
26	On interactions of P-glycoprotein with various anti-tumor drugs by binding free energy calculations. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, 39, 1-13.	2.0	2
27	Versatile functionalization of surface-tailorable polymer nanohydrogels for drug delivery systems. <i>Biomaterials Science</i> , 2019, 7, 247-261.	2.6	10
28	Understanding the effect of chemical modification on water desalination in boron nitride nanotubes via molecular dynamics simulation. <i>Desalination</i> , 2019, 464, 84-93.	4.0	45
29	Graphene quantum dot assisted translocation of drugs into a cell membrane. <i>Nanoscale</i> , 2019, 11, 4503-4514.	2.8	56
30	Understanding the size effect of graphene quantum dots on protein adsorption. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 174, 575-581.	2.5	24
31	Theoretical insights into aggregation-induced helicity modulation of a perylene bisimide derivative. <i>Journal of Molecular Modeling</i> , 2018, 24, 51.	0.8	4
32	Charge-tunable water transport through boron nitride nanotubes. <i>Journal of Molecular Liquids</i> , 2018, 258, 98-105.	2.3	16
33	Molecular dynamics study on the configuration and arrangement of doxorubicin in carbon nanotubes. <i>Journal of Molecular Liquids</i> , 2018, 262, 295-301.	2.3	35
34	Theoretical studies on key factors in DNA sequencing using atomically thin molybdenum disulfide nanopores. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 28886-28893.	1.3	7
35	Nanogel-Incorporated Injectable Hydrogel for Synergistic Therapy Based on Sequential Local Delivery of Combretastatin-A4 Phosphate (CA4P) and Doxorubicin (DOX). <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 18560-18573.	4.0	82
36	DNA sequencing by two-dimensional materials: As theoretical modeling meets experiments. <i>Biosensors and Bioelectronics</i> , 2017, 89, 280-292.	5.3	35

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37	Molecular dynamics study on DNA nanotubes as drug delivery vehicle for anticancer drugs. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 153, 168-173.	2.5	44
38	Theoretical study on the interaction of nucleotides on two-dimensional atomically thin graphene and molybdenum disulfide. <i>FlatChem</i> , 2017, 2, 8-14.	2.8	23
39	Click-functionalization of dual stimuli-responsive polymer nanocapsules for drug delivery systems. <i>Polymer Chemistry</i> , 2017, 8, 3056-3065.	1.9	28
40	Investigation of the morphological transition of a phospholipid bilayer membrane in an external electric field via molecular dynamics simulation. <i>Journal of Molecular Modeling</i> , 2017, 23, 113.	0.8	6
41	Computer simulation of water desalination through boron nitride nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 30031-30038.	1.3	28
42	Pressing Carbon Nanotubes Triggers Better Ion Selectivity. <i>Journal of Physical Chemistry C</i> , 2017, 121, 19512-19518.	1.5	3
43	Molecular dynamics study on the mechanism of polynucleotide encapsulation by chitosan. <i>Scientific Reports</i> , 2017, 7, 5050.	1.6	32
44	Adsorption Behavior and Mechanism of SCA-1 on a Calcite Surface: A Molecular Dynamics Study. <i>Langmuir</i> , 2017, 33, 11321-11331.	1.6	11
45	Interaction between IGFBP7 and insulin: a theoretical and experimental study. <i>Scientific Reports</i> , 2016, 6, 19586.	1.6	10
46	Theoretic Study on Dispersion Mechanism of Boron Nitride Nanotubes by Polynucleotides. <i>Scientific Reports</i> , 2016, 6, 39747.	1.6	10
47	Controlled interval of aligned carbon nanotubes arrays for water desalination: A molecular dynamics simulation study. <i>Desalination</i> , 2016, 395, 28-32.	4.0	22
48	Molecular modelling of translocation of biomolecules in carbon nanotubes: method, mechanism and application. <i>Molecular Simulation</i> , 2016, 42, 827-835.	0.9	17
49	The self-assembly mechanism of tetra-peptides from the motif of $\beta^2$ -amyloid peptides: a combined coarse-grained and all-atom molecular dynamics simulation. <i>RSC Advances</i> , 2016, 6, 100072-100078.	1.7	10
50	Theoretical Evaluation on Potential Cytotoxicity of Graphene Quantum Dots. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 1983-1991.	2.6	65
51	Translocation mechanism of C60 and C60 derivations across a cell membrane. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	0.8	8
52	Insight into the adsorption profiles of the <i>Saprolegnia monoica</i> chitin synthase MIT domain on POPA and POPC membranes by molecular dynamics simulation studies. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 5281-5290.	1.3	11
53	Steered molecular dynamics study of inhibitor binding in the internal binding site in dehaloperoxidase-hemoglobin. <i>Biophysical Chemistry</i> , 2016, 211, 28-38.	1.5	20
54	Charge-tunable insertion process of carbon nanotubes into DNA nanotubes. <i>Journal of Molecular Graphics and Modelling</i> , 2016, 66, 20-25.	1.3	12

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55	Charge-tunable absorption behavior of DNA on graphene. <i>Journal of Materials Chemistry B</i> , 2015, 3, 4814-4820.	2.9	23
56	Interaction of P-glycoprotein with anti-tumor drugs: the site, gate and pathway. <i>Soft Matter</i> , 2015, 11, 6633-6641.	1.2	18
57	On the loading mechanism of ssDNA into carbon nanotubes. <i>RSC Advances</i> , 2015, 5, 56896-56903.	1.7	15
58	Molecular dynamics simulations indicate that DNA bases using graphene nanopores can be identified by their translocation times. <i>RSC Advances</i> , 2015, 5, 9389-9395.	1.7	12
59	Separation of Hydrogen Gas from Coal Gas by Graphene Nanopores. <i>Journal of Physical Chemistry C</i> , 2015, 119, 25559-25565.	1.5	42
60	Computational studies of DNA sequencing with solid-state nanopores: key issues and future prospects. <i>Frontiers in Chemistry</i> , 2014, 2, 5.	1.8	13
61	Peptide encapsulation regulated by the geometry of carbon nanotubes. <i>Biomaterials</i> , 2014, 35, 1771-1778.	5.7	19
62	Drug promiscuity of P-glycoprotein and its mechanism of interaction with paclitaxel and doxorubicin. <i>Soft Matter</i> , 2014, 10, 438-445.	1.2	36
63	Theoretical studies on the dynamics of DNA fragment translocation through multilayer graphene nanopores. <i>RSC Advances</i> , 2014, 4, 50494-50502.	1.7	17
64	A molecular dynamics study on pH response of protein adsorbed on peptide-modified polyvinyl alcohol hydrogel. <i>Biomaterials Science</i> , 2014, 2, 419-426.	2.6	23
65	Effects of Graphene Nanopore Geometry on DNA Sequencing. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1602-1607.	2.1	54
66	Na <sup>+</sup> and K <sup>+</sup> ion selectivity by size-controlled biomimetic graphene nanopores. <i>Nanoscale</i> , 2014, 6, 10666-10672.	2.8	89
67	Contribution of Water Molecules in the Spontaneous Release of Protein by Graphene Sheets. <i>ChemPhysChem</i> , 2013, 14, 2902-2909.	1.0	6
68	Theoretical study on key factors in DNA sequencing with graphene nanopores. <i>RSC Advances</i> , 2013, 3, 2445.	1.7	41
69	Dispersion of Graphene Sheets in Aqueous Solution by Oligodeoxynucleotides. <i>ChemPhysChem</i> , 2013, 14, 1626-1632.	1.0	18
70	Molecular Dynamics Simulation on Stability of Insulin on Graphene. <i>Chinese Journal of Chemical Physics</i> , 2009, 22, 627-634.	0.6	25
71	Theoretical investigation on the mechanism of phospholipid extraction from the cell membrane using functionalized graphene quantum dots. <i>Materials Advances</i> , 0, , .	2.6	4