

Diannan Lu

List of Publications by Citations

Source: <https://exaly.com/author-pdf/475460/diannan-lu-publications-by-citations.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

96
papers

1,897
citations

26
h-index

40
g-index

105
ext. papers

2,198
ext. citations

5.4
avg, IF

4.92
L-index

#	Paper	IF	Citations
96	Recent advances in nanostructured biocatalysts. <i>Biochemical Engineering Journal</i> , 2009 , 44, 53-59	4.2	137
95	How PEGylation enhances the stability and potency of insulin: a molecular dynamics simulation. <i>Biochemistry</i> , 2011 , 50, 2585-93	3.2	98
94	Lipase nanogel catalyzed transesterification in anhydrous dimethyl sulfoxide. <i>Biomacromolecules</i> , 2009 , 10, 1612-8	6.9	95
93	Fabrication of single carbonic anhydrase nanogel against denaturation and aggregation at high temperature. <i>Biomacromolecules</i> , 2007 , 8, 560-5	6.9	84
92	Photo-induced ultrafast active ion transport through graphene oxide membranes. <i>Nature Communications</i> , 2019 , 10, 1171	17.4	82
91	Molecular fundamentals of enzyme nanogels. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 14319-24	3.4	73
90	Valorization of food waste into biofertiliser and its field application. <i>Journal of Cleaner Production</i> , 2018 , 187, 273-284	10.3	66
89	Temperature-responsive enzyme-polymer nanoconjugates with enhanced catalytic activities in organic media. <i>Chemical Communications</i> , 2013 , 49, 6090-2	5.8	56
88	Protein refolding assisted by periodic mesoporous organosilicas. <i>Langmuir</i> , 2007 , 23, 5735-9	4	53
87	Light-Driven Active Proton Transport through Photoacid- and Photobase-Doped Janus Graphene Oxide Membranes. <i>Advanced Materials</i> , 2019 , 31, e1903029	24	42
86	Hyperbranched polymer conjugated lipase with enhanced activity and stability. <i>Biochemical Engineering Journal</i> , 2007 , 36, 93-99	4.2	42
85	Magnetic enzyme nanogel (MENG): a universal synthetic route for biocatalysts. <i>Chemical Communications</i> , 2012 , 48, 3315-7	5.8	41
84	How hydrophobicity and the glycosylation site of glycans affect protein folding and stability: a molecular dynamics simulation. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 390-400	3.4	39
83	Substrate imprinted lipase nanogel for one-step synthesis of chloramphenicol palmitate. <i>Green Chemistry</i> , 2013 , 15, 1155	10	38
82	Bioadsorption and biostabilization of cadmium by <i>Enterobacter cloacae</i> TU. <i>Chemosphere</i> , 2017 , 173, 622-629	8.4	37
81	Dextran-grafted-PNIPAAm as an artificial chaperone for protein refolding. <i>Biochemical Engineering Journal</i> , 2006 , 27, 336-343	4.2	37
80	How CTAB assists the refolding of native and recombinant lysozyme. <i>Biochemical Engineering Journal</i> , 2005 , 24, 269-277	4.2	36

79	Structural transitions of confined model proteins: molecular dynamics simulation and experimental validation. <i>Biophysical Journal</i> , 2006 , 90, 3224-38	2.9	35
78	Electric-Field-Induced Ionic Sieving at Planar Graphene Oxide Heterojunctions for Miniaturized Water Desalination. <i>Advanced Materials</i> , 2020 , 32, e1903954	24	34
77	Ecological and enzymatic responses to petroleum contamination. <i>Environmental Sciences: Processes and Impacts</i> , 2014 , 16, 1501-9	4.3	34
76	Nanobiocatalysis in Organic Media: Opportunities for Enzymes in Nanostructures. <i>Topics in Catalysis</i> , 2012 , 55, 1070-1080	2.3	33
75	The mechanism of PNIPAAm-assisted refolding of lysozyme denatured by urea. <i>Biochemical Engineering Journal</i> , 2005 , 24, 55-64	4.2	33
74	A lipase-responsive vehicle using amphipathic polymer synthesized with the lipase as catalyst. <i>Macromolecular Rapid Communications</i> , 2011 , 32, 546-50	4.8	32
73	Uniform polymer-protein conjugate by aqueous AGET ATRP using protein as a macroinitiator. <i>Acta Biomaterialia</i> , 2011 , 7, 2131-8	10.8	31
72	Enzymatic Synthesis of High-Molecular-Weight Poly(butylene succinate) and its Copolymers. <i>Macromolecular Chemistry and Physics</i> , 2015 , 216, 636-640	2.6	26
71	How native proteins aggregate in solution: a dynamic Monte Carlo simulation. <i>Biophysical Chemistry</i> , 2008 , 133, 71-80	3.5	26
70	Protein refolding assisted by an artificial chaperone using temperature stimuli responsive polymer as the stripper. <i>Biochemical Engineering Journal</i> , 2005 , 25, 141-149	4.2	24
69	Highly Efficient Ionic Photocurrent Generation through WS ₂ -Based 2D Nanofluidic Channels. <i>Small</i> , 2019 , 15, e1905355	11	23
68	Molecular Theory for Electrokinetic Transport in pH-Regulated Nanochannels. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 3015-20	6.4	23
67	Accelerating water transport through a charged SWCNT: a molecular dynamics simulation. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 14447-57	3.6	23
66	Dynamic redox environment-intensified disulfide bond shuffling for protein refolding in vitro: molecular simulation and experimental validation. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 15127-33	3.4	23
65	Preparation of uniform magnetic iron oxide nanoparticles by co-precipitation in a helical module microchannel reactor. <i>Journal of Environmental Chemical Engineering</i> , 2017 , 5, 303-309	6.8	22
64	Graphene oxide enabled long-term enzymatic transesterification in an anhydrous gas flux. <i>Nature Communications</i> , 2019 , 10, 2684	17.4	22
63	Molecular dynamics for the charging behavior of nanostructured electric double layer capacitors containing room temperature ionic liquids. <i>Nano Research</i> , 2015 , 8, 931-940	10	15
62	Kinetic and multidimensional profiling of accelerated degradation of oil sludge by biostimulation. <i>Environmental Sciences: Processes and Impacts</i> , 2015 , 17, 763-74	4.3	15

61	A molecular theory for optimal blue energy extraction by electrical double layer expansion. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 23970-6	3.6	14
60	Isolation and characterization of a quinclorac-degrading Actinobacteria <i>Streptomyces</i> sp. strain AH-B and its implication on microecology in contaminated soil. <i>Chemosphere</i> , 2018 , 199, 210-217	8.4	14
59	Reversible encapsulation of lysozyme within mPEG-b-PMAA: experimental observation and molecular dynamics simulation. <i>Soft Matter</i> , 2013 , 9, 8723	3.6	14
58	Enriched microbial community in bioaugmentation of petroleum-contaminated soil in the presence of wheat straw. <i>Applied Biochemistry and Biotechnology</i> , 2011 , 164, 1071-82	3.2	14
57	Dynamic control of protein conformation transition in chromatographic separation based on hydrophobic interactions: molecular dynamics simulation. <i>Journal of Chromatography A</i> , 2009 , 1216, 2483-90	4.5	14
56	Photoinduced Directional Proton Transport through Printed Asymmetric Graphene Oxide Superstructures: A New Driving Mechanism under Full-Area Light Illumination. <i>Advanced Functional Materials</i> , 2020 , 30, 1907549	15.6	13
55	Italicized carbon nanotube facilitating water transport: a molecular dynamics simulation. <i>Science Bulletin</i> , 2015 , 60, 1580-1586	10.6	12
54	Oscillatory molecular driving force for protein folding at high concentration: a molecular simulation. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 2686-93	3.4	12
53	Molecular simulation of surfactant-assisted protein refolding. <i>Journal of Chemical Physics</i> , 2005 , 122, 134902	3.9	12
52	A multi-scale molecular dynamics simulation of PMAL facilitated delivery of siRNA. <i>RSC Advances</i> , 2015 , 5, 68227-68233	3.7	11
51	Dynamic control of protein folding pathway with a polymer of tunable hydrophobicity. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 12303-9	3.4	11
50	Spreading of a Unilamellar Liposome on Charged Substrates: A Coarse-Grained Molecular Simulation. <i>Langmuir</i> , 2016 , 32, 3785-93	4	11
49	Refolding of inclusion body proteins from <i>E. coli</i> . <i>Methods of Biochemical Analysis</i> , 2011 , 54, 319-38		10
48	Strengthening intersubunit hydrogen bonds for enhanced stability of recombinant urate oxidase from <i>Aspergillus flavus</i> : molecular simulations and experimental validation. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 333-40	3.6	10
47	Molecular dynamics for surfactant-assisted protein refolding. <i>Journal of Chemical Physics</i> , 2007 , 126, 064906	3.9	10
46	Design and synthesis of lipase nanogel with interpenetrating polymer networks for enhanced catalysis: Molecular simulation and experimental validation. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2013 , 88, 60-68		9
45	Activation and stabilization of a lipase nanogel using GMA for acryloylation. <i>Soft Matter</i> , 2012 , 8, 2036	3.6	9
44	Biodegradation of chlorothalonil by <i>Enterobacter cloacae</i> TUAH-1. <i>International Biodeterioration and Biodegradation</i> , 2017 , 121, 122-130	4.8	8

43	Recent progresses in the accumulation of metal ions into the apo-ferritin cage: Experimental and theoretical perspectives. <i>Polyhedron</i> , 2019 , 172, 104-111	2.7	8
42	Surface tension effects on the phase transition of a DPPC bilayer with and without protein: a molecular dynamics simulation. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 8434-40	3.6	8
41	Pathways for degrading TNT by Thu-Z: a <i>Pantoea</i> sp. strain. <i>Applied Biochemistry and Biotechnology</i> , 2012 , 168, 1976-88	3.2	8
40	Increased stability and intracellular antioxidant activity of chlorogenic acid depend on its molecular interaction with wheat gluten hydrolysate. <i>Food Chemistry</i> , 2020 , 325, 126873	8.5	8
39	Light-Powered Directional Nanofluidic Ion Transport in Kirigami-Made Asymmetric Photonic-Ionic Devices. <i>Small</i> , 2020 , 16, e1905557	11	8
38	Kinetics of CO diffusion in human carbonic anhydrase: a study using molecular dynamics simulations and the Markov-state model. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 11690-11697	3.6	7
37	A molecular theory for predicting the thermodynamic efficiency of electrokinetic energy conversion in slit nanochannels. <i>Journal of Chemical Physics</i> , 2018 , 148, 084701	3.9	7
36	How <i>Serratia marcescens</i> HB-4 absorbs cadmium and its implication on phytoremediation. <i>Ecotoxicology and Environmental Safety</i> , 2019 , 185, 109723	7	7
35	Strengthening the stability of a tunnel-shaped homotetramer protein with nanogels. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 8875-82	3.4	7
34	Laterally Heterogeneous 2D Layered Materials as an Artificial Light-Harvesting Proton Pump. <i>Advanced Functional Materials</i> , 2020 , 30, 2001549	15.6	6
33	Electrokinetic desalination using honeycomb carbon nanotubes (HC-CNTs): a conceptual study by molecular simulation. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 18941-8	3.6	6
32	Single-molecule level dynamic observation of disassembly of the apo-ferritin cage in solution. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 18562-18572	3.6	6
31	How ABA block polymers activate cytochrome c in toluene: molecular dynamics simulation and experimental observation. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 10708-14	3.6	5
30	The mechanism for the complexation and dissociation between siRNA and PMAL: a molecular dynamics simulation study based on a coarse-grained model. <i>Molecular Simulation</i> , 2017 , 43, 1385-1393 ²		5
29	Intensification of chemical separation engineering by nanostructured channels and nanofluidics: From theories to applications. <i>Chinese Journal of Chemical Engineering</i> , 2019 , 27, 1439-1448	3.2	5
28	Molecular dynamics simulations reveal how graphene oxide stabilizes and activates lipase in an anhydrous gas. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 25425-25430	3.6	5
27	Coordination design of cadmium ions at the 4-fold axis channel of the apo-ferritin cage. <i>Dalton Transactions</i> , 2019 , 48, 9759-9764	4.3	4
26	Global and Kinetic Profiles of Substrate Diffusion in Lipase B: Molecular Dynamics with the Markov-State Model. <i>ACS Omega</i> , 2020 , 5, 9806-9812	3.9	4

25	Multiscale simulation of surfactant-aquaporin complex formation and water permeability. <i>RSC Advances</i> , 2014 , 4, 37592-37599	3.7	4
24	Uniform mPEG-b-PMETAC enables pH-responsive delivery of insulin. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	4
23	Restoration of taxonomic and functional genes after bioaugmentation of petroleum contaminated soil. <i>Journal of Environmental Monitoring</i> , 2011 , 13, 2904-13		4
22	Preparation and Antibacterial Function of Quaternary Ammonium Salts Grafted Cellulose Fiber Initiated by Fe ²⁺ -H ₂ O ₂ Redox. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2009 , 46, 560-565	2.2	4
21	Molecular simulation of polymer assisted protein refolding. <i>Journal of Chemical Physics</i> , 2005 , 123, 13496-13503	3.9	4
20	Predicting hydration free energies of amphetamine-type stimulants with a customized molecular model. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 344001	1.8	4
19	A Multiscale Procedure for Predicting the Hydration Free Energies of Polycyclic Aromatic Hydrocarbons. <i>Journal of Chemical & Engineering Data</i> , 2020 , 65, 2206-2211	2.8	3
18	Markov-state model for CO binding with carbonic anhydrase under confinement. <i>Journal of Chemical Physics</i> , 2018 , 148, 035101	3.9	3
17	Detachment of HCO ₃ ⁻ from the Active Site of Carbonic Anhydrase: Molecular Dynamics Simulation and Machine Learning. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 20539-20549	3.8	3
16	How pressure affects confine water inside different nanoslits.. <i>RSC Advances</i> , 2019 , 9, 19086-19094	3.7	2
15	Computational screening and design of nanoporous membranes for efficient carbon isotope separation. <i>Green Energy and Environment</i> , 2020 , 5, 364-373	5.7	2
14	A theoretical study on the morphological phase diagram of supported lipid bilayers. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 16897-16903	3.6	1
13	Design of Multinuclear Gold Binding Site at the Two-fold Symmetric Interface of the Ferritin Cage. <i>Chemistry Letters</i> , 2020 , 49, 840-844	1.7	1
12	The Mechanism for siRNA Transmembrane Assisted by PMAL. <i>Molecules</i> , 2018 , 23,	4.8	1
11	Studies of protein folding pathways. <i>Annual Reports on the Progress of Chemistry Section C</i> , 2010 , 106, 259		1
10	Ion effects on the extraction of cesium (I) by 1,3-Diisopropoxycalix [4] arenecrown-6(BPC6) and the highly efficient extraction under neutral conditions. <i>Solvent Extraction and Ion Exchange</i> , 1-16	2.5	1
9	An improved batch fluidized drying experimental design based on digital sensors and a minicomputer. <i>Engineering Reports</i> , 2021 , 3, e12366	1.2	1
8	A hybrid theoretical method for predicting electrokinetic energy conversion in nanochannels. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 9110-9116	3.6	0

7	Recent progress in enzymatic functionalization of carbon-hydrogen bonds for the green synthesis of chemicals. <i>Chinese Journal of Chemical Engineering</i> , 2020 , 28, 2499-2506	3.2	o
6	Theoretical insights on the hydration of quinones as catholytes in aqueous redox flow batteries. <i>Chinese Journal of Chemical Engineering</i> , 2021 , 37, 72-72	3.2	o
5	The synergistic mechanisms of apo-ferritin structural transitions and Au(iii) ion transportation: molecular dynamics simulations with the Markov state model. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 17158-17165	3.6	o
4	Magnetic Multienzyme Nanoparticles Catalyzed Degradation of Aqueous Tributyltin. <i>Catalysis Letters</i> , 2018 , 148, 3732-3740	2.8	o
3	A distal regulatory strategy of enzymes: from local to global conformational dynamics. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 22451-22465	3.6	o
2	Ecological Response in the Integrated Process of Biostimulation and Bioaugmentation of Diesel-Contaminated Soil. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 6305	2.6	
1	Diffusion and Entropy of Supercooled Water in Nanoslit. <i>Chemical Engineering Journal</i> , 2022 , 446, 136672-136674	2.7	