

Shaoyong Lu

List of Publications by Year in descending order

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94
papers

4,590
citations

87888

38
h-index

118850

62
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94
all docs

94
docs citations

94
times ranked

3707
citing authors

#	ARTICLE	IF	CITATIONS
1	Targeting a cryptic allosteric site of SIRT6 with small-molecule inhibitors that inhibit the migration of pancreatic cancer cells. <i>Acta Pharmaceutica Sinica B</i> , 2022, 12, 876-889.	12.0	32
2	Along the allostery stream: Recent advances in computational methods for allosteric drug discovery. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2022, 12, e1585.	14.6	23
3	Delineating the activation mechanism and conformational landscape of a class B G protein-coupled receptor glucagon receptor. <i>Computational and Structural Biotechnology Journal</i> , 2022, 20, 628-639.	4.1	40
4	Explaining and Predicting Allostery with Allosteric Database and Modern Analytical Techniques. <i>Journal of Molecular Biology</i> , 2022, 434, 167481.	4.2	10
5	Elucidation of the conformational dynamics and assembly of Argonaute-RNA complexes by distinct yet coordinated actions of the supplementary microRNA. <i>Computational and Structural Biotechnology Journal</i> , 2022, 20, 1352-1365.	4.1	13
6	Mechanistic Insights Into Co-Administration of Allosteric and Orthosteric Drugs to Overcome Drug-Resistance in T315I BCR-ABL1. <i>Frontiers in Pharmacology</i> , 2022, 13, 862504.	3.5	11
7	Computational elucidation of allosteric communication in proteins for allosteric drug design. <i>Drug Discovery Today</i> , 2022, 27, 2226-2234.	6.4	14
8	Beyond a Linker: The Role of Photochemistry of Crosslinkers in the Direct Optical Patterning of Colloidal Nanocrystals. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	1
9	Autopromotion of K-Ras4B Feedback Activation Through an SOS-Mediated Long-Range Allosteric Effect. <i>Frontiers in Molecular Biosciences</i> , 2022, 9, 860962.	3.5	10
10	Hidden allosteric sites and De-Novo drug design. <i>Expert Opinion on Drug Discovery</i> , 2022, 17, 283-295.	5.0	13
11	Delineating the conformational landscape and intrinsic properties of the angiotensin II type 2 receptor using a computational study. <i>Computational and Structural Biotechnology Journal</i> , 2022, 20, 2268-2279.	4.1	4
12	Insights into the Allosteric Effect of SENP1 Q597A Mutation on the Hydrolytic Reaction of SUMO1 via an Integrated Computational Study. <i>Molecules</i> , 2022, 27, 4149.	3.8	4
13	Cover Image, Volume 12, Issue 4. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2022, 12, .	14.6	0
14	Discovery of cryptic allosteric sites using reversed allosteric communication by a combined computational and experimental strategy. <i>Chemical Science</i> , 2021, 12, 464-476.	7.4	84
15	Allosteric binding sites at the receptor-lipid bilayer interface: novel targets for GPCR drug discovery. <i>Drug Discovery Today</i> , 2021, 26, 690-703.	6.4	34
16	Mechanism of allosteric activation of SIRT6 revealed by the action of rationally designed activators. <i>Acta Pharmaceutica Sinica B</i> , 2021, 11, 1355-1361.	12.0	57
17	Dual roles of ATP-binding site in protein kinases: Orthosteric inhibition and allosteric regulation. <i>Advances in Protein Chemistry and Structural Biology</i> , 2021, 124, 87-119.	2.3	10
18	Mechanism of zinc ejection by disulfiram in nonstructural protein 5A. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 12204-12215.	2.8	22

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19	Mechanistic insights into the effect of phosphorylation on Ras conformational dynamics and its interactions with cell signaling proteins. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 1184-1199.	4.1	51
20	Targeting RAS phosphorylation in cancer therapy: Mechanisms and modulators. <i>Acta Pharmaceutica Sinica B</i> , 2021, 11, 3433-3446.	12.0	20
21	Conformational Selection Mechanism Provides Structural Insights into the Optimization of APC-Asef Inhibitors. <i>Molecules</i> , 2021, 26, 962.	3.8	11
22	Advances and Insights of APC-Asef Inhibitors for Metastatic Colorectal Cancer Therapy. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 662579.	3.5	7
23	Untangling Dual-Targeting Therapeutic Mechanism of Epidermal Growth Factor Receptor (EGFR) Based on Reversed Allosteric Communication. <i>Pharmaceutics</i> , 2021, 13, 747.	4.5	42
24	Rational Design of Peptide-Based Inhibitors Disrupting Protein-Protein Interactions. <i>Frontiers in Chemistry</i> , 2021, 9, 682675.	3.6	54
25	Structure of an inactive conformation of GTP-bound RhoA GTPase. <i>Structure</i> , 2021, 29, 553-563.e5.	3.3	14
26	Tribute to Ruth Nussinov. <i>Journal of Physical Chemistry B</i> , 2021, 125, 6733-6734.	2.6	0
27	Activation pathway of a G protein-coupled receptor uncovers conformational intermediates as targets for allosteric drug design. <i>Nature Communications</i> , 2021, 12, 4721.	12.8	124
28	Identification of an allosteric hotspot for additive activation of PPAR β in antidiabetic effects. <i>Science Bulletin</i> , 2021, 66, 1559-1570.	9.0	18
29	Markov State Models and Molecular Dynamics Simulations Provide Understanding of the Nucleotide-Dependent Dimerization-Based Activation of LRRK2 ROC Domain. <i>Molecules</i> , 2021, 26, 5647.	3.8	10
30	Transcriptome aberration in mice uterus associated with steroid hormone response and inflammation induced by dioxybenzone and its metabolites. <i>Environmental Pollution</i> , 2021, 286, 117294.	7.5	3
31	Predicting Multi-Interfacial Binding Mechanisms of NLRP3 and ASC Pyrin Domains in Inflammasome Activation. <i>ACS Chemical Neuroscience</i> , 2021, 12, 603-612.	3.5	10
32	Atomic-scale insights into allosteric inhibition and evolutionary rescue mechanism of <i>Streptococcus thermophilus</i> Cas9 by the anti-CRISPR protein AcrIIA6. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 6108-6124.	4.1	35
33	Harnessing Reversed Allosteric Communication: A Novel Strategy for Allosteric Drug Discovery. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 17728-17743.	6.4	29
34	Deciphering the Mechanism of Gilteritinib Overcoming Lorlatinib Resistance to the Double Mutant I1171N/F1174I in Anaplastic Lymphoma Kinase. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 808864.	3.7	14
35	Unraveling allosteric landscapes of allosterome with ASD. <i>Nucleic Acids Research</i> , 2020, 48, D394-D401.	14.5	29
36	How does the novel T315L mutation of breakpoint cluster region-abelson (BCR-ABL) kinase confer resistance to ponatinib: a comparative molecular dynamics simulation study. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, 38, 89-100.	3.5	9

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37	Emergence of allosteric drug-resistance mutations: new challenges for allosteric drug discovery. <i>Drug Discovery Today</i> , 2020, 25, 177-184.	6.4	67
38	Insight into the mechanism of allosteric activation of PI3K β by oncoprotein K-Ras4B. <i>International Journal of Biological Macromolecules</i> , 2020, 144, 643-655.	7.5	36
39	Computational methods-guided design of modulators targeting protein-protein interactions (PPIs). <i>European Journal of Medicinal Chemistry</i> , 2020, 207, 112764.	5.5	26
40	Zinc-mediated conformational preselection mechanism in the allosteric control of DNA binding to the zinc transcriptional regulator (ZitR). <i>Scientific Reports</i> , 2020, 10, 13276.	3.3	6
41	Pentabromoethylbenzene Exposure Induces Transcriptome Aberration and Thyroid Dysfunction: <i>in Vitro</i> , <i>in Silico</i> , and <i>in Vivo</i> Investigations. <i>Environmental Science & Technology</i> , 2020, 54, 12335-12344.	10.0	45
42	How Parkinson's disease-related mutations disrupt the dimerization of WD40 domain in LRRK2: a comparative molecular dynamics simulation study. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 20421-20433.	2.8	13
43	Combining Allosteric and Orthosteric Drugs to Overcome Drug Resistance. <i>Trends in Pharmacological Sciences</i> , 2020, 41, 336-348.	8.7	60
44	Decoding allosteric communication pathways in protein lysine acetyltransferase. <i>International Journal of Biological Macromolecules</i> , 2020, 149, 70-80.	7.5	26
45	Molecular dynamics simulations provide insights into the origin of gleevec TM s selectivity toward human tyrosine kinases. <i>Journal of Biomolecular Structure and Dynamics</i> , 2019, 37, 2733-2744.	3.5	17
46	Deactivation Pathway of Ras GTPase Underlies Conformational Substates as Targets for Drug Design. <i>ACS Catalysis</i> , 2019, 9, 7188-7196.	11.2	77
47	Allosteric Methods and Their Applications: Facilitating the Discovery of Allosteric Drugs and the Investigation of Allosteric Mechanisms. <i>Accounts of Chemical Research</i> , 2019, 52, 492-500.	15.6	132
48	The chemical diversity and structure-based discovery of allosteric modulators for the PIF-pocket of protein kinase PDK1. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2019, 34, 361-374.	5.2	19
49	Drugging K-RasG12C through covalent inhibitors: Mission possible?. , 2019, 202, 1-17.		63
50	AlloDriver: a method for the identification and analysis of cancer driver targets. <i>Nucleic Acids Research</i> , 2019, 47, W315-W321.	14.5	31
51	Metabolic intermediate acetyl phosphate modulates bacterial virulence <i>via</i> acetylation. <i>Emerging Microbes and Infections</i> , 2019, 8, 55-69.	6.5	37
52	Emerging roles of allosteric modulators in the regulation of protein-protein interactions (PPIs): A new paradigm for PPI drug discovery. <i>Medicinal Research Reviews</i> , 2019, 39, 2314-2342.	10.5	77
53	Allosteric Modulator Discovery: From Serendipity to Structure-Based Design. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 6405-6421.	6.4	124
54	Identification of a natural inhibitor of methionine adenosyltransferase 2A regulating one-carbon metabolism in keratinocytes. <i>EBioMedicine</i> , 2019, 39, 575-590.	6.1	19

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55	Are the Apo Proteins Suitable for the Rational Discovery of Allosteric Drugs?. <i>Journal of Chemical Information and Modeling</i> , 2019, 59, 597-604.	5.4	18
56	Small Molecule Allosteric Modulators of G-Protein-Coupled Receptors: Drug-Target Interactions. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 24-45.	6.4	114
57	Characteristics of Allosteric Proteins, Sites, and Modulators. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1163, 107-139.	1.6	17
58	Progress in Allosteric Database. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1163, 65-87.	1.6	5
59	Discovery of hidden allosteric sites as novel targets for allosteric drug design. <i>Drug Discovery Today</i> , 2018, 23, 359-365.	6.4	92
60	Identification of a cellularly active SIRT6 allosteric activator. <i>Nature Chemical Biology</i> , 2018, 14, 1118-1126.	8.0	193
61	Computational Insights into the Interactions between Calmodulin and the c/nSH2 Domains of p85 Regulatory Subunit of PI3K: Implication for PI3K Activation by Calmodulin. <i>International Journal of Molecular Sciences</i> , 2018, 19, 151.	4.1	23
62	AlloFinder: a strategy for allosteric modulator discovery and allosterome analyses. <i>Nucleic Acids Research</i> , 2018, 46, W451-W458.	14.5	79
63	Calmodulin and PI3K Signaling in KRAS Cancers. <i>Trends in Cancer</i> , 2017, 3, 214-224.	7.4	58
64	Germline Mutations in CDH23, Encoding Cadherin-Related 23, Are Associated with Both Familial and Sporadic Pituitary Adenomas. <i>American Journal of Human Genetics</i> , 2017, 100, 817-823.	6.2	57
65	Microsecond molecular dynamics simulations provide insight into the ATP-competitive inhibitor-induced allosteric protection of Akt kinase phosphorylation. <i>Chemical Biology and Drug Design</i> , 2017, 89, 723-731.	3.2	12
66	Improved Method for the Identification and Validation of Allosteric Sites. <i>Journal of Chemical Information and Modeling</i> , 2017, 57, 2358-2363.	5.4	93
67	Peptidomimetic inhibitors of APC-Asef interaction block colorectal cancer migration. <i>Nature Chemical Biology</i> , 2017, 13, 994-1001.	8.0	79
68	Designed covalent allosteric modulators: an emerging paradigm in drug discovery. <i>Drug Discovery Today</i> , 2017, 22, 447-453.	6.4	44
69	Molecular Dynamics Simulations and Dynamic Network Analysis Reveal the Allosteric Unbinding of Monobody to H-Ras Triggered by R135K Mutation. <i>International Journal of Molecular Sciences</i> , 2017, 18, 2249.	4.1	23
70	Drugging Ras GTPase: a comprehensive mechanistic and signaling structural view. <i>Chemical Society Reviews</i> , 2016, 45, 4929-4952.	38.1	150
71	Inhibitors of Ras-SOS Interactions. <i>ChemMedChem</i> , 2016, 11, 814-821.	3.2	62
72	Allosteric modulators of MEK1: drug design and discovery. <i>Chemical Biology and Drug Design</i> , 2016, 88, 485-497.	3.2	18

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73	The Structural Basis of Oncogenic Mutations G12, G13 and Q61 in Small GTPase K-Ras4B. <i>Scientific Reports</i> , 2016, 6, 21949.	3.3	149
74	The higher level of complexity of K-Ras4B activation at the membrane. <i>FASEB Journal</i> , 2016, 30, 1643-1655.	0.5	73
75	BitterX: a tool for understanding bitter taste in humans. <i>Scientific Reports</i> , 2016, 6, 23450.	3.3	53
76	Ras Conformational Ensembles, Allostery, and Signaling. <i>Chemical Reviews</i> , 2016, 116, 6607-6665.	47.7	290
77	Alloscore: a method for predicting allosteric ligand-protein interactions. <i>Bioinformatics</i> , 2016, 32, 1574-1576.	4.1	31
78	ASD v3.0: unraveling allosteric regulation with structural mechanisms and biological networks. <i>Nucleic Acids Research</i> , 2016, 44, D527-D535.	14.5	116
79	GTP Binding and Oncogenic Mutations May Attenuate Hypervariable Region (HVR)-Catalytic Domain Interactions in Small GTPase K-Ras4B, Exposing the Effector Binding Site. <i>Journal of Biological Chemistry</i> , 2015, 290, 28887-28900.	3.4	73
80	ASBench: benchmarking sets for allosteric discovery. <i>Bioinformatics</i> , 2015, 31, 2598-2600.	4.1	88
81	Prediction of Human Clearance Based on Animal Data and Molecular Properties. <i>Chemical Biology and Drug Design</i> , 2015, 86, 990-997.	3.2	13
82	The Mechanism of ATP-Dependent Allosteric Protection of Akt Kinase Phosphorylation. <i>Structure</i> , 2015, 23, 1725-1734.	3.3	58
83	The Mechanism of Allosteric Inhibition of Protein Tyrosine Phosphatase 1B. <i>PLoS ONE</i> , 2014, 9, e97668.	2.5	49
84	The Structural Basis of ATP as an Allosteric Modulator. <i>PLoS Computational Biology</i> , 2014, 10, e1003831.	3.2	76
85	Harnessing Allostery: A Novel Approach to Drug Discovery. <i>Medicinal Research Reviews</i> , 2014, 34, 1242-1285.	10.5	120
86	ASD v2.0: updated content and novel features focusing on allosteric regulation. <i>Nucleic Acids Research</i> , 2014, 42, D510-D516.	14.5	96
87	Crystal Structures of PI3K β Complexed with PI103 and Its Derivatives: New Directions for Inhibitors Design. <i>ACS Medicinal Chemistry Letters</i> , 2014, 5, 138-142.	2.8	81
88	Recent computational advances in the identification of allosteric sites in proteins. <i>Drug Discovery Today</i> , 2014, 19, 1595-1600.	6.4	93
89	Structural basis of valmerins as dual inhibitors of GSK3 β /CDK5. <i>Journal of Molecular Modeling</i> , 2014, 20, 2407.	1.8	27
90	Allosite: a method for predicting allosteric sites. <i>Bioinformatics</i> , 2013, 29, 2357-2359.	4.1	153

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91	Toward an understanding of the sequence and structural basis of allosteric proteins. Journal of Molecular Graphics and Modelling, 2013, 40, 30-39.	2.4	27
92	Insights into the Role of Magnesium Triad in <i>myo</i> -Inositol Monophosphatase: Metal Mechanism, Substrate Binding, and Lithium Therapy. Journal of Chemical Information and Modeling, 2012, 52, 2398-2409.	5.4	24
93	Mechanism of kinase inactivation and nonbinding of fratide to GSK3 β due to K85M mutation: Molecular dynamics simulation and normal mode analysis. Biopolymers, 2011, 95, 669-681.	2.4	19
94	The Role of Conformational Dynamics and Allostery in the Control of Distinct Efficacies of Agonists to the Glucocorticoid Receptor. Frontiers in Molecular Biosciences, 0, 9, .	3.5	7