Mingzhen Zhang

List of Publications by Year
in descending order

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54	1,903	236833	276775
papers	citations	25 h-index	41 g-index

56	56	56	2380
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dual Salt- and Thermoresponsive Programmable Bilayer Hydrogel Actuators with Pseudo-Interpenetrating Double-Network Structures. ACS Applied Materials & Interfaces, 2018, 10, 21642-21653.	4.0	142
2	Release of Cytochrome C from Bax Pores at the Mitochondrial Membrane. Scientific Reports, 2017, 7, 2635.	1.6	107
3	PI3K inhibitors: review and new strategies. Chemical Science, 2020, 11, 5855-5865.	3.7	106
4	Molecular understanding of a potential functional link between antimicrobial and amyloid peptides. Soft Matter, 2014, 10, 7425-7451.	1.2	96
5	Molecular Understanding and Structural-Based Design of Polyacrylamides and Polyacrylates as Antifouling Materials. Langmuir, 2016, 32, 3315-3330.	1.6	90
6	Fundamentals of cross-seeding of amyloid proteins: an introduction. Journal of Materials Chemistry B, 2019, 7, 7267-7282.	2.9	87
7	Cross-Seeding Interaction between Î²-Amyloid and Human Islet Amyloid Polypeptide. ACS Chemical Neuroscience, 2015, 6, 1759-1768.	1.7	78
8	The mechanism of PI3KÎ± activation at the atomic level. Chemical Science, 2019, 10, 3671-3680.	3.7	75
9	Salt-responsive polyzwitterionic materials for surface regeneration between switchable fouling and antifouling properties. Acta Biomaterialia, 2016, 40, 62-69.	4.1	74
10	Tanshinones inhibit hIAPP aggregation, disaggregate preformed hIAPP fibrils, and protect cultured cells. Journal of Materials Chemistry B, 2018, 6, 56-67.	2.9	58
11	Phosphorylated Calmodulin Promotes PI3K Activation by Binding to the SH2 Domains. Biophysical Journal, 2017, 113, 1956-1967.	0.2	51
12	The quaternary assembly of KRas4B with Raf-1 at the membrane. Computational and Structural Biotechnology Journal, 2020, 18, 737-748.	1.9	50
13	The structural basis for Ras activation of PI3KÎ± lipid kinase. Physical Chemistry Chemical Physics, 2019, 21, 12021-12028.	1.3	43
14	De Novo Design of Self-Assembled Hexapeptides as Î²-Amyloid (AÎ²) Peptide Inhibitors. ACS Chemical Neuroscience, 2014, 5, 972-981.	1.7	41
15	HP-Î²-cyclodextrin as an inhibitor of amyloid-Î² aggregation and toxicity. Physical Chemistry Chemical Physics, 2016, 18, 20476-20485.	1.3	41
16	Autoinhibition in Ras effectors Raf, PI3KÎ±, and RASSF5: a comprehensive review underscoring the challenges in pharmacological intervention. Biophysical Reviews, 2018, 10, 1263-1282.	1.5	40
17	Molecular Understanding of AÎ²-hIAPP Cross-Seeding Assemblies on Lipid Membranes. ACS Chemical Neuroscience, 2017, 8, 524-537.	1.7	39
18	Design principles and fundamental understanding of biosensors for amyloid-Î² detection. Journal of Materials Chemistry B, 2020, 8, 6179-6196.	2.9	39

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19	Polymorphic cross-seeding amyloid assemblies of amyloid-Î² and human islet amyloid polypeptide. Physical Chemistry Chemical Physics, 2015, 17, 23245-23256.	1.3	38
20	The mechanism of activation of monomeric B-Raf V600E. Computational and Structural Biotechnology Journal, 2021, 19, 3349-3363.	1.9	38
21	Corrosion inhibition of mild steel by an imidazolium ionic liquid compound: the effect of pH and surface pre-corrosion. RSC Advances, 2015, 5, 95160-95170.	1.7	37
22	Structural and Energetic Insight into the Cross-Seeding Amyloid Assemblies of Human IAPP and Rat IAPP. Journal of Physical Chemistry B, 2014, 118, 7026-7036.	1.2	34
23	Polymorphic Associations and Structures of the Cross-Seeding of AÎ²_{1â€“42} and hIAPP_{1â€“37} Polypeptides. Journal of Chemical Information and Modeling, 2015, 55, 1628-1639.	2.5	28
24	Structural Features that Distinguish Inactive and Active PI3K Lipid Kinases. Journal of Molecular Biology, 2020, 432, 5849-5859.	2.0	28
25	Interfacial interaction and lateral association of cross-seeding assemblies between hIAPP and rIAPP oligomers. Physical Chemistry Chemical Physics, 2015, 17, 10373-10382.	1.3	27
26	PI3K Driver Mutations: A Biophysical Membrane-Centric Perspective. Cancer Research, 2021, 81, 237-247.	0.4	26
27	B-Raf autoinhibition in the presence and absence of 14-3-3. Structure, 2021, 29, 768-777.e2.	1.6	26
28	Allostery: Allosteric Cancer Drivers and Innovative Allosteric Drugs. Journal of Molecular Biology, 2022, 434, 167569.	2.0	26
29	Seed-Induced Heterogeneous Cross-Seeding Self-Assembly of Human and Rat Islet Polypeptides. ACS Omega, 2017, 2, 784-792.	1.6	25
30	Molecular Simulations of Amyloid Structures, Toxicity, and Inhibition. Israel Journal of Chemistry, 2017, 57, 586-601.	1.0	25
31	A multiscale polymerization framework towards network structure and fracture of double-network hydrogels. Npj Computational Materials, 2021, 7, .	3.5	24
32	The Mystery of Rap1 Suppression of Oncogenic Ras. Trends in Cancer, 2020, 6, 369-379.	3.8	23
33	Phosphorylation and Driver Mutations in PI3KÎ± and PTEN Autoinhibition. Molecular Cancer Research, 2021, 19, 543-548.	1.5	23
34	A computational study of self-assembled hexapeptide inhibitors against amyloid-Î² (AÎ²) aggregation. Physical Chemistry Chemical Physics, 2016, 19, 155-166.	1.3	18
35	Calmodulin and IQGAP1 activation of PI3KÎ± and Akt in KRAS, HRAS and NRAS-driven cancers. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2018, 1864, 2304-2314.	1.8	16
36	Calmodulin (CaM) Activates PI3KÎ± by Targeting the â€œSoftâ€•CaM-Binding Motifs in Both the nSH2 and cSH2 Domains of p85Î±. Journal of Physical Chemistry B, 2018, 122, 11137-11146.	1.2	15

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37	Dual amyloid cross-seeding reveals steric zipper-facilitated fibrillization and pathological links between protein misfolding diseases. Journal of Materials Chemistry B, 2021, 9, 3300-3316.	2.9	15
38	Mechanism of activation and the rewired network: New drug design concepts. Medicinal Research Reviews, 2022, 42, 770-799.	5.0	15
39	The mechanism of Raf activation through dimerization. Chemical Science, 2021, 12, 15609-15619.	3.7	15
40	Ras isoform-specific expression, chromatin accessibility, and signaling. Biophysical Reviews, 2021, 13, 489-505.	1.5	14
41	Identification of a New Function of Cardiovascular Disease Drug 3-Morpholinosydnonimine Hydrochloride as an Amyloid-Î² Aggregation Inhibitor. ACS Omega, 2017, 2, 243-250.	1.6	12
42	Ca²⁺-Dependent Switch of Calmodulin Interaction Mode with Tandem IQ Motifs in the Scaffolding Protein IQGAP1. Biochemistry, 2019, 58, 4903-4911.	1.2	12
43	Oncogenic Mutations Differentially Affect Bax Monomer, Dimer, and Oligomeric Pore Formation in the Membrane. Scientific Reports, 2016, 6, 33340.	1.6	11
44	A quantitative sequenceâ€“aggregation relationship predictor applied as identification of self-assembled hexapeptides. Chemometrics and Intelligent Laboratory Systems, 2015, 145, 7-16.	1.8	10
45	Interaction of Calmodulin with the cSH2 Domain of the p85 Regulatory Subunit. Biochemistry, 2018, 57, 1917-1928.	1.2	10
46	Molecular Recognition between AÎ²-Specific Single-Domain Antibody and AÎ² Misfolded Aggregates. Antibodies, 2018, 7, 25.	1.2	10
47	Drugging multiple same-allele driver mutations in cancer. Expert Opinion on Drug Discovery, 2021, 16, 1-6.	2.5	10
48	The structural basis of BCR-ABL recruitment of GRB2 in chronic myelogenous leukemia. Biophysical Journal, 2022, 121, 2251-2265.	0.2	9
49	Experimental and Computational Protocols for Studies of Cross-Seeding Amyloid Assemblies. Methods in Molecular Biology, 2018, 1777, 429-447.	0.4	8
50	The mechanism of activation of MEK1 by B-Raf and KSR1. Cellular and Molecular Life Sciences, 2022, 79, 281.	2.4	7
51	Conformational-specific self-assembled peptides as dual-mode, multi-target inhibitors and detectors for different amyloid proteins. Journal of Materials Chemistry B, 2022, 10, 1754-1762.	2.9	6
52	Augment Reality-Based Teaching Practice. Biomedical Engineering Education, 2021, 1, 237-241.	0.6	3
53	Novel MAPK/AKT-impairing germline NRAS variant identified in a melanoma-prone family. Familial Cancer, 2022, 21, 347-355.	0.9	1
54	Excited-State Hydrogen-Bonding Dynamics and Coupled Proton Transfer for Luminous Molecules. , 2019, , 391-408.		0