

Yang Shen

List of Publications by Year in descending order

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48
papers

4,556
citations

218677

26
h-index

265206

42
g-index

58
all docs

58
docs citations

58
times ranked

8279
citing authors

#	ARTICLE	IF	CITATIONS
1	ESR1 ligand-binding domain mutations in hormone-resistant breast cancer. <i>Nature Genetics</i> , 2013, 45, 1439-1445.	21.4	960
2	Genomic and Molecular Landscape of DNA Damage Repair Deficiency across The Cancer Genome Atlas. <i>Cell Reports</i> , 2018, 23, 239-254.e6.	6.4	801
3	Overcoming mutation-based resistance to antiandrogens with rational drug design. <i>ELife</i> , 2013, 2, e00499.	6.0	334
4	DeepAffinity: interpretable deep learning of compoundâ€“protein affinity through unified recurrent and convolutional neural networks. <i>Bioinformatics</i> , 2019, 35, 3329-3338.	4.1	279
5	Homophilic CD44 Interactions Mediate Tumor Cell Aggregation and Polyclonal Metastasis in Patient-Derived Breast Cancer Models. <i>Cancer Discovery</i> , 2019, 9, 96-113.	9.4	256
6	Estrogen receptor alpha somatic mutations Y537S and D538G confer breast cancer endocrine resistance by stabilizing the activating function-2 binding conformation. <i>ELife</i> , 2016, 5, .	6.0	212
7	Achieving reliability and high accuracy in automated protein docking: Cluspro, PIPER, SDU, and stability analysis in CAPRI rounds 13â€“19. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010, 78, 3124-3130.	2.6	211
8	Prediction of homoprotein and heteroprotein complexes by protein docking and templateâ€“based modeling: A CASPâ€“CAPRI experiment. <i>Proteins: Structure, Function and Bioinformatics</i> , 2016, 84, 323-348.	2.6	148
9	Blind prediction of homoâ€“and heteroâ€“protein complexes: The CASP13â€“CAPRI experiment. <i>Proteins: Structure, Function and Bioinformatics</i> , 2019, 87, 1200-1221.	2.6	99
10	ICAM1 initiates CTC cluster formation and trans-endothelial migration in lung metastasis of breast cancer. <i>Nature Communications</i> , 2021, 12, 4867.	12.8	97
11	Circulating ACE2-expressing extracellular vesicles block broad strains of SARS-CoV-2. <i>Nature Communications</i> , 2022, 13, 405.	12.8	92
12	ClusPro: Performance in CAPRI rounds 6â€“11 and the new server. <i>Proteins: Structure, Function and Bioinformatics</i> , 2007, 69, 781-785.	2.6	77
13	Prediction of protein assemblies, the next frontier: The <scp>CASP14â€“CAPRI</scp> experiment. <i>Proteins: Structure, Function and Bioinformatics</i> , 2021, 89, 1800-1823.	2.6	73
14	The SERM/SERD basedoxifene disrupts ESR1 helix 12 to overcome acquired hormone resistance in breast cancer cells. <i>ELife</i> , 2018, 7, .	6.0	72
15	A Genetically Encoded, Phageâ€“Displayed Cyclicâ€“Peptide Library. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15904-15909.	13.8	64
16	Engineering a HER2-specific antibodyâ€“drug conjugate to increase lysosomal delivery and therapeutic efficacy. <i>Nature Biotechnology</i> , 2019, 37, 523-526.	17.5	58
17	TALE: Transformer-based protein function Annotation with joint sequenceâ€“Label Embedding. <i>Bioinformatics</i> , 2021, 37, 2825-2833.	4.1	52
18	Identification of YbeY-Protein Interactions Involved in 16S rRNA Maturation and Stress Regulation in <i>Escherichia coli</i> . <i>MBio</i> , 2016, 7, .	4.1	51

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19	Blind prediction of interfacial water positions in CAPRI. <i>Proteins: Structure, Function and Bioinformatics</i> , 2014, 82, 620-632.	2.6	50
20	De Novo Protein Design for Novel Folds Using Guided Conditional Wasserstein Generative Adversarial Networks. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 5667-5681.	5.4	44
21	Protein Docking by the Underestimation of Free Energy Funnels in the Space of Encounter Complexes. <i>PLoS Computational Biology</i> , 2008, 4, e1000191.	3.2	41
22	Crowdsourced mapping of unexplored target space of kinase inhibitors. <i>Nature Communications</i> , 2021, 12, 3307.	12.8	41
23	Energy-based graph convolutional networks for scoring protein docking models. <i>Proteins: Structure, Function and Bioinformatics</i> , 2020, 88, 1091-1099.	2.6	40
24	Testing the Substrate-Envelope Hypothesis with Designed Pairs of Compounds. <i>ACS Chemical Biology</i> , 2013, 8, 2433-2441.	3.4	33
25	cNMA: a framework of encounter complex-based normal mode analysis to model conformational changes in protein interactions. <i>Bioinformatics</i> , 2015, 31, i151-i160.	4.1	33
26	Explainable Deep Relational Networks for Predicting Compound-Protein Affinities and Contacts. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 46-66.	5.4	30
27	L2-GCN: Layer-Wise and Learned Efficient Training of Graph Convolutional Networks. , 2020, , .		29
28	G protein-coupled receptors in arthropod vectors: omics and pharmacological approaches to elucidate ligand-receptor interactions and novel organismal functions. <i>Current Opinion in Insect Science</i> , 2018, 29, 12-20.	4.4	28
29	Network-principled deep generative models for designing drug combinations as graph sets. <i>Bioinformatics</i> , 2020, 36, i445-i454.	4.1	24
30	Extracellular Domains I and II of cell-surface glycoprotein CD44 mediate its trans-homophilic dimerization and tumor cluster aggregation. <i>Journal of Biological Chemistry</i> , 2020, 295, 2640-2649.	3.4	24
31	SDU: A Semidefinite Programming-Based Underestimation Method for Stochastic Global Optimization in Protein Docking. <i>IEEE Transactions on Automatic Control</i> , 2007, 52, 664-676.	5.7	20
32	Assessment of blind predictions of the clinical significance of <i>BRCA1</i> and <i>BRCA2</i> variants. <i>Human Mutation</i> , 2019, 40, 1546-1556.	2.5	19
33	iCFN: an efficient exact algorithm for multistate protein design. <i>Bioinformatics</i> , 2018, 34, i811-i820.	4.1	18
34	Improved flexible refinement of protein docking in CAPRI rounds 22-27. <i>Proteins: Structure, Function and Bioinformatics</i> , 2013, 81, 2129-2136.	2.6	17
35	Evaluating the predictions of the protein stability change upon single amino acid substitutions for the FXN CAG15 challenge. <i>Human Mutation</i> , 2019, 40, 1392-1399.	2.5	16
36	Bringing Your Own View. , 2022, , .		13

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37	Docking with PIPER and refinement with SDU in rounds 6-11 of CAPRI. <i>Proteins: Structure, Function and Bioinformatics</i> , 2007, 69, 734-742.	2.6	12
38	Predicting protein conformational changes for unbound and homology docking: learning from intrinsic and induced flexibility. <i>Proteins: Structure, Function and Bioinformatics</i> , 2017, 85, 544-556.	2.6	12
39	Bayesian Active Learning for Optimization and Uncertainty Quantification in Protein Docking. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 5334-5347.	5.3	12
40	Molecular mechanisms and design principles for promiscuous inhibitors to avoid drug resistance: Lessons learned from HIV-1 protease inhibition. <i>Proteins: Structure, Function and Bioinformatics</i> , 2015, 83, 351-372.	2.6	9
41	Charge Optimization Theory for Induced-Fit Ligands. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 4580-4592.	5.3	8
42	Assessing the performance of in silico methods for predicting the pathogenicity of variants in the gene CHEK2, among Hispanic females with breast cancer. <i>Human Mutation</i> , 2019, 40, 1612-1622.	2.5	8
43	Predicting pathogenicity of missense variants with weakly supervised regression. <i>Human Mutation</i> , 2019, 40, 1579-1592.	2.5	5
44	A Semi-Definite programming-based Underestimation method for global optimization in molecular docking. , 0, , .		4
45	Protein-protein docking with reduced potentials by exploiting multi-dimensional energy funnels. , 2006, 2006, 5330-3.		4
46	Biomedical informatics with optimization and machine learning. <i>Eurasip Journal on Bioinformatics and Systems Biology</i> , 2016, 2017, 4.	1.4	3
47	Optimizing noisy funnel-like functions on the euclidean group with applications to protein docking. , 2007, , .		2
48	Fold2Seq: A Joint Sequence(1D)-Fold(3D) Embedding-based Generative Model for Protein Design. <i>Proceedings of Machine Learning Research</i> , 2021, 139, 1261-1271.	0.3	1