

Vibin Ramakrishnan

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6246864/publications.pdf>

Version: 2024-02-01

48
papers

742
citations

471509

17
h-index

610901

24
g-index

49
all docs

49
docs citations

49
times ranked

572
citing authors

#	ARTICLE	IF	CITATIONS
1	The Link between Sequence and Conformation in Protein Structures Appears To Be Stereochemically Established. <i>Journal of Physical Chemistry B</i> , 2006, 110, 9314-9323.	2.6	49
2	Existence of Specific "Folds" in Polyproline II Ensembles of an "Unfolded" Alanine Peptide Detected by Molecular Dynamics. <i>Journal of the American Chemical Society</i> , 2004, 126, 16332-16333.	13.7	36
3	Peptide based antimicrobials: Design strategies and therapeutic potential. <i>Progress in Biophysics and Molecular Biology</i> , 2019, 142, 10-22.	2.9	36
4	Geometry encoded functional programming of tumor homing peptides for targeted drug delivery. <i>Journal of Controlled Release</i> , 2021, 333, 16-27.	9.9	34
5	Highly potent antimicrobial peptides from N-terminal membrane-binding region of <i>E. coli</i> MreB. <i>Scientific Reports</i> , 2017, 7, 42994.	3.3	31
6	The interplay of sequence and stereochemistry in defining conformation in proteins and polypeptides. <i>Biopolymers</i> , 2006, 83, 537-545.	2.4	30
7	Effect of tacticity-derived topological constraints in bactericidal peptides. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017, 1859, 1388-1395.	2.6	30
8	Electric Field Disruption of Amyloid Aggregation: Potential Noninvasive Therapy for Alzheimer's Disease. <i>ACS Chemical Neuroscience</i> , 2019, 10, 2250-2262.	3.5	30
9	Syndiotactic peptides for targeted delivery. <i>Acta Biomaterialia</i> , 2019, 87, 130-139.	8.3	30
10	Topological effects on the designability and bactericidal potency of antimicrobial peptides. <i>Biophysical Chemistry</i> , 2019, 248, 1-8.	2.8	27
11	Modulation of Peptide Based Nano-Assemblies with Electric and Magnetic Fields. <i>Scientific Reports</i> , 2017, 7, 2726.	3.3	24
12	Simulated folding in polypeptides of diversified molecular tacticity: Implications for protein folding and de novo design. <i>Biopolymers</i> , 2005, 78, 96-105.	2.4	22
13	Homochiral Stereochemistry: The Missing Link of Structure to Energetics in Protein Folding. <i>Journal of Physical Chemistry B</i> , 2009, 113, 16435-16442.	2.6	22
14	Geofold: Topology-based protein unfolding pathways capture the effects of engineered disulfides on kinetic stability. <i>Proteins: Structure, Function and Bioinformatics</i> , 2012, 80, 920-934.	2.6	18
15	Peptide-based delivery vectors with pre-defined geometrical locks. <i>RSC Medicinal Chemistry</i> , 2020, 11, 1303-1313.	3.9	18
16	Antimicrobial effects of syndiotactic polypeptides. <i>Scientific Reports</i> , 2021, 11, 1823.	3.3	18
17	Creating novel protein scripts beyond natural alphabets. <i>Systems and Synthetic Biology</i> , 2010, 4, 247-256.	1.0	17
18	Peptido-mimetic Approach in the Design of Syndiotactic Antimicrobial Peptides. <i>International Journal of Peptide Research and Therapeutics</i> , 2018, 24, 299-307.	1.9	16

#	ARTICLE	IF	CITATIONS
19	Molecular hybridization combining tumor homing and penetrating peptide domains for cellular targeting. <i>Drug Delivery and Translational Research</i> , 2022, 12, 1285-1292.	5.8	16
20	Danazol has potential to cause PKC translocation, cell cycle dysregulation, and apoptosis in breast cancer cells. <i>Chemical Biology and Drug Design</i> , 2017, 89, 953-963.	3.2	15
21	Electric field modulated peptide based hydrogel nanocatalysts. <i>Soft Matter</i> , 2021, 17, 9725-9735.	2.7	15
22	Symmetry-Directed Self-Organization in Peptide Nanoassemblies through Aromatic π - π Interactions. <i>Journal of Physical Chemistry B</i> , 2017, 121, 404-411.	2.6	14
23	Modulation of aggregation with an electric field; scientific roadmap for a potential non-invasive therapy against tauopathies. <i>RSC Advances</i> , 2019, 9, 4744-4750.	3.6	14
24	Bactericidal Potency and Extended Serum Life of Stereo-Chemically Engineered Peptides Against Mycobacterium. <i>International Journal of Peptide Research and Therapeutics</i> , 2019, 25, 465-472.	1.9	13
25	Mapping drug-target interactions and synergy in multi-molecular therapeutics for pressure-overload cardiac hypertrophy. <i>Npj Systems Biology and Applications</i> , 2021, 7, 11.	3.0	13
26	Mapping of phosphatidylserine recognition region on CD36 ectodomain. <i>Archives of Biochemistry and Biophysics</i> , 2018, 660, 1-10.	3.0	12
27	Invasive and non-invasive therapies for Alzheimer's disease and other amyloidosis. <i>Biophysical Reviews</i> , 2020, 12, 1175-1186.	3.2	11
28	Delivery of Small Molecules by Syndiotactic Peptides for Breast Cancer Therapy. <i>Molecular Pharmaceutics</i> , 2022, 19, 2877-2887.	4.6	11
29	Single Crystal Organic Nanoflowers. <i>Scientific Reports</i> , 2017, 7, 17335.	3.3	10
30	Conformationally constrained peptides for drug delivery. <i>Journal of Peptide Science</i> , 2020, 26, e3244.	1.4	10
31	Modulation of tau protein aggregation using α -Trojan sequences. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020, 1864, 129569.	2.4	10
32	Automated protein design: Landmarks and operational principles. <i>Progress in Biophysics and Molecular Biology</i> , 2017, 125, 24-35.	2.9	9
33	<i>De Novo</i> Designed Heterochiral Blue Fluorescent Protein. <i>ACS Omega</i> , 2020, 5, 26382-26388.	3.5	9
34	Characterization of ICAM-1 biophore to design cytoadherence blocking peptides. <i>Journal of Molecular Graphics and Modelling</i> , 2015, 57, 27-35.	2.4	8
35	Minimalist De Novo Design of an Artificial Enzyme. <i>ACS Omega</i> , 0, , .	3.5	8
36	Peptide-Based Drug Delivery Systems. , 2019, , 25-45.		7

#	ARTICLE	IF	CITATIONS
37	Mapping the Geometric Evolution of Protein Folding Motor. PLoS ONE, 2016, 11, e0163993.	2.5	7
38	bPE toolkit: toolkit for computational protein engineering. Systems and Synthetic Biology, 2014, 8, 337-341.	1.0	6
39	Modulating A β 2 Fibrillogenesis with "Trojan"™ peptides. Neuropeptides, 2020, 81, 102030.	2.2	6
40	Insight into structural and biochemical determinants of substrate specificity of PFI1625c: Correlation analysis of protein-peptide molecular models. Journal of Molecular Graphics and Modelling, 2013, 43, 21-30.	2.4	5
41	IDeAS: automated design tool for hetero-chiral protein folds. Physical Biology, 2018, 15, 066005.	1.8	5
42	Aromatic interactions directing peptide nano-assembly. Advances in Protein Chemistry and Structural Biology, 2022, 130, 119-160.	2.3	5
43	Anisotropic Ferromagnetic Organic Nanoflowers. Journal of Physical Chemistry C, 2022, 126, 8511-8518.	3.1	4
44	Virtual Activity Profiling of Bioactive Molecules by 1D Fingerprinting. Molecular Informatics, 2010, 29, 773-779.	2.5	3
45	Automated design evolution of stereochemically randomized protein foldamers. Physical Biology, 2018, 15, 036001.	1.8	3
46	Directive Effect of Chain Length in Modulating Peptide Nano-assemblies. Protein and Peptide Letters, 2020, 27, 923-929.	0.9	3
47	Structure-based barcoding of proteins. Protein Science, 2014, 23, 117-120.	7.6	1
48	Electric Field Mediated Disruption of Beta Amyloid; a Potential Non-Invasive Therapy for Alzheimer's Disease. Biophysical Journal, 2019, 116, 51a.	0.5	0