Vibin Ramakrishnan

List of Publications by Year
in descending order

48 papers	742 citations	535685 17 h-index	685536 24 g-index
49 all docs	49 docs citations	49 times ranked	647 citing authors

#	Article	IF	Citations
1	Molecular hybridization combining tumor homing and penetrating peptide domains for cellular targeting. Drug Delivery and Translational Research, 2022, 12, 1285-1292.	3.0	16
2	Aromatic interactions directing peptide nano-assembly. Advances in Protein Chemistry and Structural Biology, 2022, 130, 119-160.	1.0	5
3	Anisotropic Ferromagnetic Organic Nanoflowers. Journal of Physical Chemistry C, 2022, 126, 8511-8518.	1.5	4
4	Delivery of Small Molecules by Syndiotactic Peptides for Breast Cancer Therapy. Molecular Pharmaceutics, 2022, 19, 2877-2887.	2.3	11
5	Electric field modulated peptide based hydrogel nanocatalysts. Soft Matter, 2021, 17, 9725-9735.	1.2	15
6	Antimicrobial effects of syndiotactic polypeptides. Scientific Reports, 2021, 11, 1823.	1.6	18
7	Mapping drug-target interactions and synergy in multi-molecular therapeutics for pressure-overload cardiac hypertrophy. Npj Systems Biology and Applications, 2021, 7, 11.	1.4	13
8	Geometry encoded functional programming of tumor homing peptides for targeted drug delivery. Journal of Controlled Release, 2021, 333, 16-27.	4.8	34
9	Peptide-based delivery vectors with pre-defined geometrical locks. RSC Medicinal Chemistry, 2020, 11, 1303-1313.	1.7	18
10	Invasive and non-invasive therapies for Alzheimerâ€™s disease and other amyloidosis. Biophysical Reviews, 2020, 12, 1175-1186.	1.5	11
11	Conformationally constrained peptides for drug delivery. Journal of Peptide Science, 2020, 26, e3244.	0.8	10
12	Modulating AÎ² Fibrillogenesis with â€˜Trojanâ€™ peptides. Neuropeptides, 2020, 81, 102030.	0.9	6
13	Modulation of tau protein aggregation using â€˜Trojanâ€™ sequences. Biochimica Et Biophysica Acta - General Subjects, 2020, 1864, 129569.	1.1	10
14	De Novo Designed Heterochiral Blue Fluorescent Protein. ACS Omega, 2020, 5, 26382-26388.	1.6	9
15	Directive Effect of Chain Length in Modulating Peptide Nano-assemblies. Protein and Peptide Letters, 2020, 27, 923-929.	0.4	3
16	Peptide based antimicrobials: Design strategies and therapeutic potential. Progress in Biophysics and Molecular Biology, 2019, 142, 10-22.	1.4	36
17	Electric Field Disruption of Amyloid Aggregation: Potential Noninvasive Therapy for Alzheimerâ€™s Disease. ACS Chemical Neuroscience, 2019, 10, 2250-2262.	1.7	30
18	Electric Field Mediated Disruption of Beta Amyloid; a Potential Non-Invasive Therapy for Alzheimer's Disease. Biophysical Journal, 2019, 116, 51a.	0.2	0

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19	Modulation of aggregation with an electric field; scientific roadmap for a potential non-invasive therapy against tauopathies. RSC Advances, 2019, 9, 4744-4750.	1.7	14
20	Topological effects on the designability and bactericidal potency of antimicrobial peptides. Biophysical Chemistry, 2019, 248, 1-8.	1.5	27
21	Syndiotactic peptides for targeted delivery. Acta Biomaterialia, 2019, 87, 130-139.	4.1	30
22	Peptide-Based Drug Delivery Systems. , 2019, , 25-45.		7
23	Bactericidal Potency and Extended Serum Life of Stereo-Chemically Engineered Peptides Against Mycobacterium. International Journal of Peptide Research and Therapeutics, 2019, 25, 465-472.	0.9	13
24	Automated design evolution of stereochemically randomized protein foldamers. Physical Biology, 2018, 15, 036001.	0.8	3
25	Peptido-mimetic Approach in the Design of Syndiotactic Antimicrobial Peptides. International Journal of Peptide Research and Therapeutics, 2018, 24, 299-307.	0.9	16
26	Mapping of phosphatidylserine recognition region on CD36 ectodomain. Archives of Biochemistry and Biophysics, 2018, 660, 1-10.	1.4	12
27	IDeAS: automated design tool for hetero-chiral protein folds. Physical Biology, 2018, 15, 066005.	0.8	5
28	Highly potent antimicrobial peptides from N-terminal membrane-binding region of E. coli MreB. Scientific Reports, 2017, 7, 42994.	1.6	31
29	Effect of tacticity-derived topological constraints in bactericidal peptides. Biochimica Et Biophysica Acta - Biomembranes, 2017, 1859, 1388-1395.	1.4	30
30	Symmetry-Directed Self-Organization in Peptide Nanoassemblies through Aromatic Ï€â€“Ï€ Interactions. Journal of Physical Chemistry B, 2017, 121, 404-411.	1.2	14
31	Automated protein design: Landmarks and operational principles. Progress in Biophysics and Molecular Biology, 2017, 125, 24-35.	1.4	9
32	Danazol has potential to cause PKC translocation, cell cycle dysregulation, and apoptosis in breast cancer cells. Chemical Biology and Drug Design, 2017, 89, 953-963.	1.5	15
33	Modulation of Peptide Based Nano-Assemblies with Electric and Magnetic Fields. Scientific Reports, 2017, 7, 2726.	1.6	24
34	Single Crystal Organic Nanoflowers. Scientific Reports, 2017, 7, 17335.	1.6	10
35	Mapping the Geometric Evolution of Protein Folding Motor. PLoS ONE, 2016, 11, e0163993.	1.1	7
36	Characterization of ICAM-1 biophore to design cytoadherence blocking peptides. Journal of Molecular Graphics and Modelling, 2015, 57, 27-35.	1.3	8

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37	Structureâ€based barcoding of proteins. Protein Science, 2014, 23, 117-120.	3.1	1
38	bPE toolkit: toolkit for computational protein engineering. Systems and Synthetic Biology, 2014, 8, 337-341.	1.0	6
39	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.	1.3	5
40	Geofold: Topologyâ€based protein unfolding pathways capture the effects of engineered disulfides on kinetic stability. Proteins: Structure, Function and Bioinformatics, 2012, 80, 920-934.	1.5	18
41	Creating novel protein scripts beyond natural alphabets. Systems and Synthetic Biology, 2010, 4, 247-256.	1.0	17
42	Virtual Activity Profiling of Bioactive Molecules by 1D Fingerprinting. Molecular Informatics, 2010, 29, 773-779.	1.4	3
43	Homochiral Stereochemistry: The Missing Link of Structure to Energetics in Protein Folding. Journal of Physical Chemistry B, 2009, 113, 16435-16442.	1.2	22
44	The Link between Sequence and Conformation in Protein Structures Appears To Be Stereochemically Established. Journal of Physical Chemistry B, 2006, 110, 9314-9323.	1.2	49
45	The interplay of sequence and stereochemistry in defining conformation in proteins and polypeptides. Biopolymers, 2006, 83, 537-545.	1.2	30
46	Simulated folding in polypeptides of diversified molecular tacticity: Implications for protein folding and de novo design. Biopolymers, 2005, 78, 96-105.	1.2	22
47	Existence of Specific â€œFoldsâ€•in Polyproline II Ensembles of an â€œUnfoldedâ€•Alanine Peptide Detected by Molecular Dynamics. Journal of the American Chemical Society, 2004, 126, 16332-16333.	6.6	36
48	Minimalist De Novo Design of an Artificial Enzyme. ACS Omega, 0, , .	1.6	8