

# Anirban Bhunia

## List of Publications by Year in descending order

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Version: 2024-02-01

134  
papers

4,337  
citations

101384

36  
h-index

138251

58  
g-index

140  
all docs

140  
docs citations

140  
times ranked

5617  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | A rationally designed synthetic antimicrobial peptide against Pseudomonas-associated corneal keratitis: Structure-function correlation. <i>Biophysical Chemistry</i> , 2022, 286, 106802.                  | 1.5 | 5         |
| 2  | Atomic-Resolution Structures and Mode of Action of Clinically Relevant Antimicrobial Peptides. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4558.  | 1.8 | 11        |
| 3  | Structural insights into the interaction of antifungal peptides and ergosterol containing fungal membrane. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2022, 1864, 183996.                       | 1.4 | 10        |
| 4  | Effect of Secondary Structure and Side Chain Length of Hydrophobic Amino Acid Residues on the Antimicrobial Activity and Toxicity of 14 Residue Long de novo AMPs. <i>ChemMedChem</i> , 2021, 16, 355-367. | 1.6 | 23        |
| 5  | Gut-Brain axis in Parkinson's disease etiology: The role of lipopolysaccharide. <i>Chemistry and Physics of Lipids</i> , 2021, 235, 105029.  | 1.5 | 20        |
| 6  | An explicitly designed paratope of amyloid- $\beta^2$ prevents neuronal apoptosis <i>in vitro</i> and hippocampal damage in rat brain. <i>Chemical Science</i> , 2021, 12, 2853-2862.                      | 3.7 | 7         |
| 7  | Hanudatta S. Atreya (1974–2020). <i>Magnetic Resonance in Chemistry</i> , 2021, 59, 201-212.   | 1.1 | 0         |
| 8  | Targeting C-terminal Helical bundle of NCOVID19 Envelope (E) protein. <i>International Journal of Biological Macromolecules</i> , 2021, 175, 131-139.  | 3.6 | 7         |
| 9  | Attenuation of Human Lysozyme Amyloid Fibrillation by ACE Inhibitor Captopril: A Combined Spectroscopy, Microscopy, Cytotoxicity, and Docking Study. <i>Biomacromolecules</i> , 2021, 22, 1910-1920.       | 2.6 | 21        |
| 10 | Inhibition behavior of Senoside A and Senoside C on amyloid fibrillation of human lysozyme and its possible mechanism. <i>International Journal of Biological Macromolecules</i> , 2021, 178, 424-433.     | 3.6 | 26        |
| 11 | Conformational distortion in a fibril-forming oligomer arrests alpha-Synuclein fibrillation and minimizes its toxic effects. <i>Communications Biology</i> , 2021, 4, 518.                                 | 2.0 | 8         |
| 12 | Effect of PEGylation on Host Defense Peptide Complexation with Bacterial Lipopolysaccharide. <i>Bioconjugate Chemistry</i> , 2021, 32, 1729-1741.  | 1.8 | 8         |
| 13 | Synthesis and antibacterial study of cell-penetrating peptide conjugated trifluoroacetyl and thioacetyl lysine modified peptides. <i>European Journal of Medicinal Chemistry</i> , 2021, 219, 113447.      | 2.6 | 7         |
| 14 | Solvent Relaxation NMR: A Tool for Real-Time Monitoring Water Dynamics in Protein Aggregation Landscape. <i>ACS Chemical Neuroscience</i> , 2021, 12, 2903-2916.   | 1.7 | 8         |
| 15 | Deciphering the Role of Ion Channels in Early Defense Signaling against Herbivorous Insects. <i>Cells</i> , 2021, 10, 2219.  | 1.8 | 9         |
| 16 | Editorial: Secondary Metabolites and Peptides as Unique Natural Reservoirs of New Therapeutic Leads for Treatment of Cancer and Microbial Infections. <i>Frontiers in Chemistry</i> , 2021, 9, 748180.     | 1.8 | 1         |
| 17 | Zinc oxide nanoparticle interface moderation with tyrosine and tryptophan reverses the pro-amyloidogenic property of the particle. <i>Biochimie</i> , 2021, , .  | 1.3 | 1         |
| 18 | Self-Assembly and Neurotoxicity of $\beta^2$ Amyloid (21–40) Peptide Fragment: The Regulatory Role of CxxxG Motifs. <i>ChemMedChem</i> , 2020, 15, 293-301.  | 1.6 | 16        |

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|----|--|-----|-----------|
| 19 | Salt Dependence Conformational Stability of the Dimeric SAM Domain of MAPKKK Ste11 from Budding Yeast: A Native-State H/D Exchange NMR Study. <i>Biochemistry</i> , 2020, 59, 2849-2858.   | 1.2 | 3         |
| 20 | Nonthermal Atmospheric Plasma-Induced Cellular Envelope Damage of <i>Staphylococcus aureus</i> and <i>Candida albicans</i> Biofilms: Spectroscopic and Biochemical Investigations. <i>IEEE Transactions on Plasma Science</i> , 2020, 48, 2768-2776.         | 0.6 | 2         |
| 21 | High-resolution structure of a partially folded insulin aggregation intermediate. <i>Proteins: Structure, Function and Bioinformatics</i> , 2020, 88, 1648-1659.   | 1.5 | 13        |
| 22 | Investigating the inhibitory effects of entacapone on amyloid fibril formation of human lysozyme. <i>International Journal of Biological Macromolecules</i> , 2020, 161, 1393-1404.  | 3.6 | 25        |
| 23 | Host-membrane interacting interface of the SARS coronavirus envelope protein: Immense functional potential of C-terminal domain. <i>Biophysical Chemistry</i> , 2020, 266, 106452.   | 1.5 | 41        |
| 24 | Comparison of Synthetic Neuronal Model Membrane Mimics in Amyloid Aggregation at Atomic Resolution. <i>ACS Chemical Neuroscience</i> , 2020, 11, 1965-1977.  | 1.7 | 18        |
| 25 | 7-Methoxytacrine and 2-Aminobenzothiazole Heterodimers: Structure-Mechanism Relationship of Amyloid Inhibitors Based on Rational Design. <i>ACS Chemical Neuroscience</i> , 2020, 11, 715-729.   | 1.7 | 10        |
| 26 | Targeted inhibition of amyloidogenesis using a non-toxic, serum stable strategically designed cyclic peptide with therapeutic implications. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2020, 1868, 140378.                             | 1.1 | 12        |
| 27 | Rationally designed antimicrobial peptides: Insight into the mechanism of eleven residue peptides against microbial infections. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183177.  | 1.4 | 21        |
| 28 | Interaction with zinc oxide nanoparticle kinetically traps $\alpha$ -synuclein fibrillation into off-pathway non-toxic intermediates. <i>International Journal of Biological Macromolecules</i> , 2020, 150, 68-79.  | 3.6 | 11        |
| 29 | Molecular Details of a Salt Bridge and Its Role in Insulin Fibrillation by NMR and Raman Spectroscopic Analysis. <i>Journal of Physical Chemistry B</i> , 2020, 124, 1125-1136.  | 1.2 | 10        |
| 30 | Characterization of Antimicrobial Peptide-Membrane Interaction Using All-Atom Molecular Dynamic Simulation. <i>Springer Protocols</i> , 2020, , 163-176.   | 0.1 | 2         |
| 31 | NMR Assisted Antimicrobial Peptide Designing: Structure Based Modifications and Functional Correlation of a Designed Peptide VG16KRKP. <i>Current Medicinal Chemistry</i> , 2020, 27, 1387-1404.   | 1.2 | 6         |
| 32 | Combining Antimicrobial Peptides with Nanotechnology: An Emerging Field in Theranostics. <i>Current Protein and Peptide Science</i> , 2020, 21, 413-428.   | 0.7 | 17        |
| 33 | Structural insights into the combinatorial effects of antimicrobial peptides reveal a role of aromatic-aromatic interactions in antibacterial synergism. <i>Journal of Biological Chemistry</i> , 2019, 294, 14615-14633.                                    | 1.6 | 20        |
| 34 | Do Catechins (ECG and EGCG) Bind to the Same Site as Thioflavin T (ThT) in Amyloid Fibril? Answer From Saturation Transfer Difference NMR. <i>Natural Product Communications</i> , 2019, 14, 1934578X1984979.  | 0.2 | 5         |
| 35 | Role of non-electrostatic forces in antimicrobial potency of a dengue-virus derived fusion peptide VG16KRKP: Mechanistic insight into the interfacial peptide-lipid interactions. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2019, 1861, 798-809. | 1.4 | 13        |
| 36 | Mitochondrial-membrane association of $\alpha$ -synuclein: Pros and cons in consequence of Parkinson's disease pathophysiology. <i>Gene Reports</i> , 2019, 16, 100423.  | 0.4 | 4         |

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|----|--|-----|-----------|
| 37 | Design, Synthesis, Antibacterial Potential, and Structural Characterization of N-Acylated Derivatives of the Human Autophagy 16 Polypeptide. <i>Bioconjugate Chemistry</i> , 2019, 30, 1998-2010.  | 1.8 | 13        |
| 38 | Enhanced Silkworm Cecropin B Antimicrobial Activity against <i>Pseudomonas aeruginosa</i> from Single Amino Acid Variation. <i>ACS Infectious Diseases</i> , 2019, 5, 1200-1213.   | 1.8 | 31        |
| 39 | Probing transient non-native states in amyloid beta fiber elongation by NMR. <i>Chemical Communications</i> , 2019, 55, 4483-4486.   | 2.2 | 46        |
| 40 | Lipopolysaccharide from Gut Microbiota Modulates $\beta$ -Synuclein Aggregation and Alters Its Biological Function. <i>ACS Chemical Neuroscience</i> , 2019, 10, 2229-2236.  | 1.7 | 73        |
| 41 | A Peptide-Nanoparticle System with Improved Efficacy against Multidrug Resistant Bacteria. <i>Scientific Reports</i> , 2019, 9, 4485.  | 1.6 | 80        |
| 42 | Nanomaterial Relevance of the Intermolecular Interaction Dynamics—Examples from Lysozymes and Insulins. <i>ACS Omega</i> , 2019, 4, 4206-4220.   | 1.6 | 11        |
| 43 | Structural characterization of VapB46 antitoxin from <i>Mycobacterium tuberculosis</i> : insights into VapB46 DNA binding. <i>FEBS Journal</i> , 2019, 286, 1174-1190.   | 2.2 | 4         |
| 44 | Microgels as carriers of antimicrobial peptides—Effects of peptide PEGylation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 565, 8-15.  | 2.3 | 26        |
| 45 | Cell-Penetrating Peptides as Theranostics Against Impaired Blood-Brain Barrier Permeability: Implications for Pathogenesis and Therapeutic Treatment of Neurodegenerative Disease. <i>Neuromethods</i> , 2019, , 115-136.  | 0.2 | 0         |
| 46 | Sequence specificity of amylin-insulin interaction: a fragment-based insulin fibrillation inhibition study. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2019, 1867, 405-415.  | 1.1 | 13        |
| 47 | Application of tungsten disulfide quantum dot-conjugated antimicrobial peptides in bio-imaging and antimicrobial therapy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 176, 360-370.  | 2.5 | 40        |
| 48 | Multitude NMR studies of $\beta$ -synuclein familial mutants: probing their differential aggregation propensities. <i>Chemical Communications</i> , 2018, 54, 3605-3608.   | 2.2 | 33        |
| 49 | Insulin—eukaryotic model membrane interaction: Mechanistic insight of insulin fibrillation and membrane disruption. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 1917-1926.   | 1.4 | 17        |
| 50 | Structural insights of a self-assembling 9-residue peptide from the C-terminal tail of the SARS corona virus E-protein in DPC and SDS micelles: A combined high and low resolution spectroscopic study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 335-346. | 1.4 | 17        |
| 51 | Insights into the Mechanism of Antimicrobial Activity of Seven-Residue Peptides. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 7614-7629.  | 2.9 | 19        |
| 52 | Binding Moiety Mapping by Saturation Transfer Difference NMR. <i>Methods in Molecular Biology</i> , 2018, 1824, 49-65.   | 0.4 | 5         |
| 53 | Nonproductive Binding Modes as a Prominent Feature of $\beta$ 40 Fiber Elongation: Insights from Molecular Dynamics Simulation. <i>Journal of Chemical Information and Modeling</i> , 2018, 58, 1576-1586.   | 2.5 | 11        |
| 54 | Evidences for zinc (II) and copper (II) ion interactions with <i>Mycobacterium leprae</i> HSP18: Effect on its structure and chaperone function. <i>Journal of Inorganic Biochemistry</i> , 2018, 188, 62-75.  | 1.5 | 6         |

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|----|---|-----|-----------|
| 55 | Inhibition and Degradation of Amyloid Beta (A $\beta$ 240) Fibrillation by Designed Small Peptide: A Combined Spectroscopy, Microscopy, and Cell Toxicity Study. <i>ACS Chemical Neuroscience</i> , 2017, 8, 718-722.   | 1.7 | 44        |
| 56 | Reduced Lipid Bilayer Thickness Regulates the Aggregation and Cytotoxicity of Amyloid- $\beta$ . <i>Journal of Biological Chemistry</i> , 2017, 292, 4638-4650.   | 1.6 | 145       |
| 57 | Structural and Dynamic Insights into a Glycine-Mediated Short Analogue of a Designed Peptide in Lipopolysaccharide Micelles: Correlation Between Compact Structure and Anti-Endotoxin Activity. <i>Biochemistry</i> , 2017, 56, 1348-1362.  | 1.2 | 15        |
| 58 | Tryptophan end-tagging for promoted lipopolysaccharide interactions and anti-inflammatory effects. <i>Scientific Reports</i> , 2017, 7, 212.  | 1.6 | 13        |
| 59 | Synthesis of novel muramic acid derivatives and their interaction with lysozyme: Action of lysozyme revisited. <i>Journal of Colloid and Interface Science</i> , 2017, 498, 395-404.  | 5.0 | 12        |
| 60 | Conformational Aspects of High Content Packing of Antimicrobial Peptides in Polymer Microgels. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 40094-40106.  | 4.0 | 17        |
| 61 | Lysozyme's lectin-like characteristics facilitates its immune defense function. <i>Quarterly Reviews of Biophysics</i> , 2017, 50, e9.  | 2.4 | 29        |
| 62 | Multivalent gold nanoparticle-peptide conjugates for targeting intracellular bacterial infections. <i>Nanoscale</i> , 2017, 9, 14074-14093.   | 2.8 | 60        |
| 63 | Membrane perturbing activities and structural properties of the frog-skin derived peptide Esculentin-1a(1-21)NH <sub>2</sub> and its Diastereomer Esc(1-21)-1c: Correlation with their antipseudomonal and cytotoxic activity. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017, 1859, 2327-2339. | 1.4 | 27        |
| 64 | Accelerated molecular dynamics simulation analysis of MSI-594 in a lipid bilayer. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 19289-19299.   | 1.3 | 46        |
| 65 | An Approach Towards Structure Based Antimicrobial Peptide Design for Use in Development of Transgenic Plants: A Strategy for Plant Disease Management. <i>Current Medicinal Chemistry</i> , 2017, 24, 1350-1364.  | 1.2 | 13        |
| 66 | Ribavirin suppresses bacterial virulence by targeting LysR-type transcriptional regulators. <i>Scientific Reports</i> , 2016, 6, 39454.   | 1.6 | 23        |
| 67 | Identification of modes of interactions between 9-aminoacridine hydrochloride hydrate and serum proteins by low and high resolution spectroscopy and molecular modeling. <i>RSC Advances</i> , 2016, 6, 53454-53468.  | 1.7 | 21        |
| 68 | Evidence for Inhibition of Lysozyme Amyloid Fibrillization by Peptide Fragments from Human Lysozyme: A Combined Spectroscopy, Microscopy, and Docking Study. <i>Biomacromolecules</i> , 2016, 17, 1998-2009.  | 2.6 | 35        |
| 69 | Inhibition of Insulin Amyloid Fibrillation by a Novel Amphipathic Heptapeptide. <i>Journal of Biological Chemistry</i> , 2016, 291, 23545-23556.  | 1.6 | 62        |
| 70 | Deciphering the role of the AT-rich interaction domain and the HMG-box domain of ARID-HMG proteins of <i>Arabidopsis thaliana</i> . <i>Plant Molecular Biology</i> , 2016, 92, 371-388.   | 2.0 | 16        |
| 71 | Enhanced stability and activity of an antimicrobial peptide in conjugation with silver nanoparticle. <i>Journal of Colloid and Interface Science</i> , 2016, 483, 385-393.  | 5.0 | 97        |
| 72 | Structural Elucidation of the Cell-Penetrating Penetratin Peptide in Model Membranes at the Atomic Level: Probing Hydrophobic Interactions in the Blood-Brain Barrier. <i>Biochemistry</i> , 2016, 55, 4982-4996.   | 1.2 | 24        |

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|----|--|-----|-----------|
| 73 | Mode of Action of a Designed Antimicrobial Peptide: High Potency against <i>Cryptococcus neoformans</i> . <i>Biophysical Journal</i> , 2016, 111, 1724-1737.   | 0.2 | 37        |
| 74 | Expedient synthesis of the pentasaccharide repeating unit of the O-antigen of <i>Escherichia coli</i> O86 and its conformational analysis. <i>Glycoconjugate Journal</i> , 2016, 33, 887-896.  | 1.4 | 5         |
| 75 | Biophysical insights into the membrane interaction of the core amyloid-forming A $\beta$ <sub>40</sub> fragment K16-K28 and its role in the pathogenesis of Alzheimer's disease. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 16890-16901.   | 1.3 | 16        |
| 76 | Role of Aromatic Amino Acids in Lipopolysaccharide and Membrane Interactions of Antimicrobial Peptides for Use in Plant Disease Control. <i>Journal of Biological Chemistry</i> , 2016, 291, 13301-13317.  | 1.6 | 46        |
| 77 | Structure and Dynamics of Antifreeze Protein-Model Membrane Interactions: A Combined Spectroscopic and Molecular Dynamics Study. <i>Journal of Physical Chemistry B</i> , 2016, 120, 902-914.  | 1.2 | 20        |
| 78 | C -cinnamoyl glycosides as a new class of anti-filarial agents. <i>European Journal of Medicinal Chemistry</i> , 2016, 114, 308-317.   | 2.6 | 14        |
| 79 | NMR structure and binding of esculentin-1a (1 $\alpha$ -NH <sub>2</sub> ) and its diastereomer to lipopolysaccharide: Correlation with biological functions. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 800-812.  | 1.4 | 16        |
| 80 | Amyloid- $\beta$ adopts a conserved, partially folded structure upon binding to zwitterionic lipid bilayers prior to amyloid formation. <i>Chemical Communications</i> , 2016, 52, 882-885.  | 2.2 | 66        |
| 81 | Designing potent antimicrobial peptides by disulphide linked dimerization and N-terminal lipidation to increase antimicrobial activity and membrane perturbation: Structural insights into lipopolysaccharide binding. <i>Journal of Colloid and Interface Science</i> , 2016, 461, 335-345. | 5.0 | 41        |
| 82 | Influence of a curcumin derivative on hIAPP aggregation in the absence and presence of lipid membranes. <i>Chemical Communications</i> , 2016, 52, 942-945.  | 2.2 | 63        |
| 83 | Reactivity of Metal-Free and Metal-Associated Amyloid- $\beta$ with Glycosylated Polyphenols and Their Esterified Derivatives. <i>Scientific Reports</i> , 2015, 5, 17842.   | 1.6 | 44        |
| 84 | An Alternative Phosphorylation Switch in Integrin $\alpha$ <sub>2</sub> (CD18) Tail for Dok1 Binding. <i>Scientific Reports</i> , 2015, 5, 11630.  | 1.6 | 15        |
| 85 | Antimicrobial Peptides and their Pore/Ion Channel Properties in Neutralization of Pathogenic Microbes. <i>Current Topics in Medicinal Chemistry</i> , 2015, 16, 46-53.   | 1.0 | 39        |
| 86 | Biophysical Characterization of Essential Phosphorylation at the Flexible C-Terminal Region of C-Raf with 14-3-3 $\sigma$ Protein. <i>PLoS ONE</i> , 2015, 10, e0135976.   | 1.1 | 9         |
| 87 | Editorial (Thematic Issue: Antimicrobial Peptides in Medicinal Chemistry: Advances and Applications). <i>Current Topics in Medicinal Chemistry</i> , 2015, 16, 2-3.  | 1.0 | 4         |
| 88 | Interaction of ATP with a Small Heat Shock Protein from <i>Mycobacterium leprae</i> : Effect on Its Structure and Function. <i>PLoS Neglected Tropical Diseases</i> , 2015, 9, e0003661.   | 1.3 | 13        |
| 89 | Antimicrobial Peptides: Insights into Membrane Permeabilization, Lipopolysaccharide Fragmentation and Application in Plant Disease Control. <i>Scientific Reports</i> , 2015, 5, 11951.  | 1.6 | 70        |
| 90 | Probing the role of Proline in the antimicrobial activity and lipopolysaccharide binding of indolicidin. <i>Journal of Colloid and Interface Science</i> , 2015, 452, 148-159.   | 5.0 | 22        |

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|-----|---|-----|-----------|
| 91  | Self-Assembly of a Nine-Residue Amyloid-Forming Peptide Fragment of SARS Corona Virus E-Protein: Mechanism of Self Aggregation and Amyloid-Inhibition of hIAPP. <i>Biochemistry</i> , 2015, 54, 2249-2261.                            | 1.2 | 50        |
| 92  | Detergent-Type Membrane Fragmentation by MSI-78, MSI-367, MSI-594, and MSI-843 Antimicrobial Peptides and Inhibition by Cholesterol: A Solid-State Nuclear Magnetic Resonance Study. <i>Biochemistry</i> , 2015, 54, 1897-1907.       | 1.2 | 55        |
| 93  | Will It Be Beneficial To Simulate the Antifreeze Proteins at Ice Freezing Condition or at Lower Temperature?. <i>Journal of Physical Chemistry B</i> , 2015, 119, 11485-11495.  | 1.2 | 12        |
| 94  | Biophysical and biochemical aspects of antifreeze proteins: Using computational tools to extract atomistic information. <i>Progress in Biophysics and Molecular Biology</i> , 2015, 119, 194-204.                                     | 1.4 | 15        |
| 95  | Membrane disruptive antimicrobial activities of human $\beta$ -defensin-3 analogs. <i>European Journal of Medicinal Chemistry</i> , 2015, 91, 91-99.  | 2.6 | 44        |
| 96  | Double GC:GC Mismatch in dsDNA Enhances Local Dynamics Retaining the DNA Footprint: A High-Resolution NMR Study. <i>ChemMedChem</i> , 2014, 9, 2059-2064.   | 1.6 | 14        |
| 97  | Linear synthesis and conformational analysis of the pentasaccharide repeating unit of the cell wall O-antigen of Escherichia coli O13. <i>Carbohydrate Research</i> , 2014, 391, 9-15.  | 1.1 | 3         |
| 98  | Potent $\beta$ -secretase inhibitors/modulators interact with amyloid- $\beta$ fibrils but do not inhibit fibrillation: A high-resolution NMR study. <i>Biochemical and Biophysical Research Communications</i> , 2014, 447, 590-595. | 1.0 | 17        |
| 99  | Acetylation of Gly1 and Lys2 Promotes Aggregation of Human $\beta$ -Crystallin. <i>Biochemistry</i> , 2014, 53, 7269-7282.  | 1.2 | 26        |
| 100 | Synthesis of the pentasaccharide repeating unit of the O-antigen of Escherichia coli O175 using one-pot glycosylations and its conformational analysis. <i>Tetrahedron</i> , 2014, 70, 9262-9267.                                     | 1.0 | 2         |
| 101 | Sequence context induced antimicrobial activity: insight into lipopolysaccharide permeabilization. <i>Molecular BioSystems</i> , 2014, 10, 1596-1612.   | 2.9 | 30        |
| 102 | Synthesis of the tetrasaccharide repeating unit of the O-antigen of the Escherichia coli O69 strain and its conformational analysis. <i>RSC Advances</i> , 2014, 4, 37079-37084.  | 1.7 | 3         |
| 103 | Indolicidin Targets Duplex DNA: Structural and Mechanistic Insight through a Combination of Spectroscopy and Microscopy. <i>ChemMedChem</i> , 2014, 9, 2052-2058.   | 1.6 | 75        |
| 104 | Convergent Synthesis and Conformational Analysis of the Hexasaccharide Repeating Unit of the O-Antigen of Shigella flexneri Serotype 1d. <i>European Journal of Organic Chemistry</i> , 2014, 4577-4584.                              | 1.2 | 20        |
| 105 | Human cathelicidin peptide LL37 binds telomeric G-quadruplex. <i>Molecular BioSystems</i> , 2013, 9, 1833.  | 2.9 | 25        |
| 106 | Novel G-quadruplex stabilizing agents: in-silico approach and dynamics. <i>Journal of Biomolecular Structure and Dynamics</i> , 2013, 31, 1497-1518.  | 2.0 | 15        |
| 107 | Use of a Small Peptide Fragment as an Inhibitor of Insulin Fibrillation Process: A Study by High and Low Resolution Spectroscopy. <i>PLoS ONE</i> , 2013, 8, e72318.  | 1.1 | 64        |
| 108 | NMR Structure of Temporin-1 Ta in Lipopolysaccharide Micelles: Mechanistic Insight into Inactivation by Outer Membrane. <i>PLoS ONE</i> , 2013, 8, e72718.  | 1.1 | 31        |

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|-----|---|-----|-----------|
| 109 | Structural determinants of the specificity of a membrane binding domain of the scaffold protein Ste5 of budding yeast: Implications in signaling by the scaffold protein in MAPK pathway. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 1250-1260.                    | 1.4 | 8         |
| 110 | NMR Structure, Localization, and Vesicle Fusion of Chikungunya Virus Fusion Peptide. <i>Biochemistry</i> , 2012, 51, 7863-7872.   | 1.2 | 16        |
| 111 | Solution Structures, Dynamics, and Ice Growth Inhibitory Activity of Peptide Fragments Derived from an Antarctic Yeast Protein. <i>PLoS ONE</i> , 2012, 7, e49788.  | 1.1 | 21        |
| 112 | Applications of saturation transfer difference NMR in biological systems. <i>Drug Discovery Today</i> , 2012, 17, 505-513.  | 3.2 | 126       |
| 113 | Mapping residue-specific contacts of polymyxin B with lipopolysaccharide by saturation transfer difference NMR: Insights into outer-membrane disruption and endotoxin neutralization. <i>Biopolymers</i> , 2011, 96, 273-287.   | 1.2 | 29        |
| 114 | NMR Structures and Interactions of Temporin-1Tl and Temporin-1Tb with Lipopolysaccharide Micelles. <i>Journal of Biological Chemistry</i> , 2011, 286, 24394-24406.   | 1.6 | 84        |
| 115 | NMR Structure of Pardaxin, a Pore-forming Antimicrobial Peptide, in Lipopolysaccharide Micelles. <i>Journal of Biological Chemistry</i> , 2010, 285, 3883-3895.   | 1.6 | 123       |
| 116 | Structure, Interactions, and Antibacterial Activities of MSI-594 Derived Mutant Peptide MSI-594F5A in Lipopolysaccharide Micelles: Role of the Helical Hairpin Conformation in Outer-Membrane Permeabilization. <i>Journal of the American Chemical Society</i> , 2010, 132, 18417-18428. | 6.6 | 104       |
| 117 | Why Structurally Different Cyclic Peptides Can Be Glycomimetics of the HNK-1 Carbohydrate Antigen. <i>Journal of the American Chemical Society</i> , 2010, 132, 96-105.   | 6.6 | 32        |
| 118 | Micelle-bound structures and dynamics of the hinge deleted analog of melittin and its diastereomer: Implications in cell selective lysis by d-amino acid containing antimicrobial peptides. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2010, 1798, 128-139.                    | 1.4 | 31        |
| 119 | Functional and structural characterization of the talin FOF1 domain. <i>Biochemical and Biophysical Research Communications</i> , 2010, 391, 159-165.   | 1.0 | 3         |
| 120 | Designed $\hat{2}$ -Boomerang Antiendotoxic and Antimicrobial Peptides. <i>Journal of Biological Chemistry</i> , 2009, 284, 21991-22004.  | 1.6 | 94        |
| 121 | NMR Solution Conformations and Interactions of Integrin $\hat{2}$ Cytoplasmic Tails. <i>Journal of Biological Chemistry</i> , 2009, 284, 3873-3884.   | 1.6 | 31        |
| 122 | Helical Hairpin Structure of a Potent Antimicrobial Peptide MSI-594 in Lipopolysaccharide Micelles by NMR Spectroscopy. <i>Chemistry - A European Journal</i> , 2009, 15, 2036-2040.  | 1.7 | 89        |
| 123 | Lipopolysaccharide bound structures of the active fragments of fowlicidin-1, a cathelicidin family of antimicrobial and antiendotoxic peptide from chicken, determined by transferred nuclear overhauser effect spectroscopy. <i>Biopolymers</i> , 2009, 92, 9-22.                        | 1.2 | 56        |
| 124 | NMR structural studies of the Ste11 SAM domain in the dodecyl phosphocholine micelle. <i>Proteins: Structure, Function and Bioinformatics</i> , 2009, 74, 328-343.  | 1.5 | 24        |
| 125 | Consistent Bioactive Conformation of the Neu5Ac $\hat{2}$ ( $\hat{2}$ '3)Gal Epitope Upon Lectin Binding. <i>ChemBioChem</i> , 2008, 9, 2941-2945.  | 1.3 | 20        |
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