

Krishna Bisetty

List of Publications by Year in descending order

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104
papers

3,269
citations

185998

28
h-index

161609

54
g-index

111
all docs

111
docs citations

111
times ranked

4420
citing authors

#	ARTICLE	IF	CITATIONS
1	Biogenic synthesis of nanoparticles: A review. <i>Arabian Journal of Chemistry</i> , 2019, 12, 3576-3600.	2.3	563
2	Smartphone based bioanalytical and diagnosis applications: A review. <i>Biosensors and Bioelectronics</i> , 2018, 102, 136-149.	5.3	227
3	A Review of Gold and Silver Nanoparticle-Based Colorimetric Sensing Assays. <i>Advanced Engineering Materials</i> , 2017, 19, 1700270.	1.6	214
4	Dithiocarbamates as hazardous remediation agent: A critical review on progress in environmental chemistry for inorganic species studies of 20th century. <i>Arabian Journal of Chemistry</i> , 2014, 7, 11-25.	2.3	136
5	Biosynthesis of ZnO nanoparticles using <i>Jacaranda mimosifolia</i> flowers extract: Synergistic antibacterial activity and molecular simulated facet specific adsorption studies. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 162, 199-207.	1.7	134
6	Nanotechnology-based water quality management for wastewater treatment. <i>Environmental Chemistry Letters</i> , 2019, 17, 65-121.	8.3	105
7	Insight into the biosensing of graphene oxide: Present and future prospects. <i>Arabian Journal of Chemistry</i> , 2016, 9, 238-261.	2.3	98
8	Large scale analysis of the mutational landscape in β -glucuronidase: A major player of mucopolysaccharidosis type VII. <i>Gene</i> , 2016, 576, 36-44.	1.0	79
9	Removal of copper (II) from wastewater using green vegetable waste derived activated carbon: An approach to equilibrium and kinetic study. <i>Arabian Journal of Chemistry</i> , 2019, 12, 4331-4339.	2.3	74
10	Membrane technology for water purification. <i>Environmental Chemistry Letters</i> , 2018, 16, 343-365.	8.3	71
11	Synthesis, docking and in vitro antimalarial evaluation of bifunctional hybrids derived from β -lactams and 7-chloroquinoline using click chemistry. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 57-61.	1.0	63
12	Role of N-terminal residues on folding and stability of C-phycoerythrin: simulation and urea-induced denaturation studies. <i>Journal of Biomolecular Structure and Dynamics</i> , 2015, 33, 121-133.	2.0	60
13	Creation of thermostable and alkaline stable xylanase variants by DNA shuffling. <i>Journal of Biotechnology</i> , 2014, 187, 139-146.	1.9	57
14	Green synthesis, characterization and electrochemical sensing of silymarin by ZnO nanoparticles: Experimental and DFT studies. <i>Journal of Electroanalytical Chemistry</i> , 2018, 808, 160-172.	1.9	57
15	Thermostable chitinase II from <i>Thermomyces lanuginosus</i> SSBP: Cloning, structure prediction and molecular dynamics simulations. <i>Journal of Theoretical Biology</i> , 2015, 374, 107-114.	0.8	53
16	Photoelectrochemical Bisphenol S Sensor Based on ZnO Nanorods Modified by Molecularly Imprinted Polypyrrole. <i>Macromolecular Chemistry and Physics</i> , 2020, 221, 1900232.	1.1	53
17	Designing New Kinase Inhibitor Derivatives as Therapeutics Against Common Complex Diseases: Structural Basis of Microtubule Affinity-Regulating Kinase 4 (MARK4) Inhibition. <i>OMICS A Journal of Integrative Biology</i> , 2015, 19, 700-711.	1.0	50
18	Highly-efficient electrochemical label-free immunosensor for the detection of ochratoxin A in coffee samples. <i>Sensors and Actuators B: Chemical</i> , 2020, 305, 127438.	4.0	49

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19	Cloning, expression, and molecular dynamics simulations of a xylosidase obtained from <i>Thermomyces lanuginosus</i> . <i>Journal of Biomolecular Structure and Dynamics</i> , 2016, 34, 1681-1692.	2.0	45
20	Chitinase from <i>Thermomyces lanuginosus</i> SSBP and its biotechnological applications. <i>Extremophiles</i> , 2015, 19, 1055-1066.	0.9	42
21	Electrochemical sensing platform amplified with a nanobiocomposite of L-phenylalanine ammonia-lyase enzyme for the detection of capsaicin. <i>Biosensors and Bioelectronics</i> , 2016, 83, 45-53.	5.3	39
22	Electrochemical Determination of Capsaicin and Silymarin Using a Glassy Carbon Electrode Modified by Gold Nanoparticle Decorated Multiwalled Carbon Nanotubes. <i>Analytical Letters</i> , 2014, 47, 2813-2828.	1.0	38
23	Current Advances in the Identification and Characterization of Putative Drug and Vaccine Targets in the Bacterial Genomes. <i>Current Topics in Medicinal Chemistry</i> , 2015, 16, 1040-1069.	1.0	35
24	Structure prediction and functional analyses of a thermostable lipase obtained from <i>Shewanella putrefaciens</i> . <i>Journal of Biomolecular Structure and Dynamics</i> , 2017, 35, 2123-2135.	2.0	34
25	High Performance Electrochemical Biosensor for Bisphenol A Using Screen Printed Electrodes Modified with Multiwalled Carbon Nanotubes Functionalized with Silver-Doped Zinc Oxide. <i>Waste and Biomass Valorization</i> , 2020, 11, 1085-1096.	1.8	32
26	Effect of pH on the structure, function, and stability of human calcium/calmodulin-dependent protein kinase IV: combined spectroscopic and MD simulation studies. <i>Biochemistry and Cell Biology</i> , 2016, 94, 221-228.	0.9	31
27	Preparation, Spectrochemical, and Computational Analysis of L-Carnosine (2-[(3-Aminopropanoyl)amino]-3-(1H-imidazol-5-yl)propanoic Acid) and Its Ruthenium (II) Coordination Complexes in Aqueous Solution. <i>Molecules</i> , 2011, 16, 10269-10291.	1.7	30
28	Fabrication of copper nanoparticles decorated multiwalled carbon nanotubes as a high performance electrochemical sensor for the detection of neotame. <i>Biosensors and Bioelectronics</i> , 2015, 67, 200-207.	5.3	30
29	Effect of pH on structure, function, and stability of mitochondrial carbonic anhydrase VA. <i>Journal of Biomolecular Structure and Dynamics</i> , 2017, 35, 449-461.	2.0	29
30	Conformational analysis of small peptides of the type Ac-X-NHMe, where X=Gly, Ala, Aib and Cage. <i>Computational and Theoretical Chemistry</i> , 2005, 731, 127-137.	1.5	28
31	PKR-inhibitor binds efficiently with human microtubule affinity-regulating kinase 4. <i>Journal of Molecular Graphics and Modelling</i> , 2015, 62, 245-252.	1.3	28
32	In silico approaches for the identification of virulence candidates amongst hypothetical proteins of <i>Mycoplasma pneumoniae</i> 309. <i>Computational Biology and Chemistry</i> , 2015, 59, 67-80.	1.1	26
33	Cycloaddition reactions of cross-conjugated enaminones. <i>Tetrahedron</i> , 2009, 65, 8478-8485.	1.0	25
34	An ultrasensitive performance enhanced novel cytochrome c biosensor for the detection of rebaudioside A. <i>Biosensors and Bioelectronics</i> , 2016, 77, 116-123.	5.3	25
35	Urea-induced denaturation of human calcium/calmodulin-dependent protein kinase IV: a combined spectroscopic and MD simulation studies. <i>Journal of Biomolecular Structure and Dynamics</i> , 2017, 35, 463-475.	2.0	25
36	A theoretical study of pentacyclo-undecane cage peptides of the type [Ac-X-Y-NHMe]. <i>Journal of Peptide Science</i> , 2006, 12, 92-105.	0.8	21

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37	Hybrid of ZnONPs/MWCNTs for electrochemical detection of aspartame in food and beverage samples. <i>Journal of Electroanalytical Chemistry</i> , 2016, 774, 51-57.	1.9	21
38	One-pot biosynthesis of silver nanoparticles using <i>Iboza Riparia</i> and <i>Ilex Mitis</i> for cytotoxicity on human embryonic kidney cells. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 178, 560-567.	1.7	21
39	Trishomocubane Amino Acid as a β -turn scaffold. <i>Chemical Biology and Drug Design</i> , 2008, 71, 125-130.	1.5	20
40	Computational studies on the molecular insights of aptamer induced poly(N-isopropylacrylamide)-graft-graphene oxide for on/off- switchable whole-cell cancer diagnostics. <i>Scientific Reports</i> , 2019, 9, 7873.	1.6	20
41	Computational study of the conformational preferences of the (R)-8-amino-pentacyclo[5.4.0.0 ^{2,6} .0 ^{3,10} .0 ^{5,9}] undecane-8-carboxylic acid mono-peptide. <i>Journal of Peptide Science</i> , 2004, 10, 274-284.	0.8	18
42	Towards New Drug Targets? Function Prediction of Putative Proteins of <i>Neisseria meningitidis</i> MC58 and Their Virulence Characterization. <i>OMICS A Journal of Integrative Biology</i> , 2015, 19, 416-434.	1.0	18
43	Spectrophotometric determination of nickel (II) in waters and soils: Novel chelating agents and their biological applications supported by DFT method. <i>Karbala International Journal of Modern Science</i> , 2016, 2, 239-250.	0.5	18
44	Structural basis of pesticide detection by enzymatic biosensing: a molecular docking and MD simulation study. <i>Journal of Biomolecular Structure and Dynamics</i> , 2018, 36, 1402-1416.	2.0	18
45	Light induced DNA-functionalized TiO ₂ nanocrystalline interface: Theoretical and experimental insights towards DNA damage detection. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 188, 159-176.	1.7	18
46	Analysis of the conformational profile of trishomocubane amino acid dipeptide. <i>Biopolymers</i> , 2006, 81, 339-349.	1.2	17
47	Experimental and Computational Studies of a Laccase Immobilized ZnONPs/GO-Based Electrochemical Enzymatic Biosensor for the Detection of Sucralose in Food Samples. <i>Food Analytical Methods</i> , 2020, 13, 2014-2027.	1.3	17
48	Molecular dynamics simulations of Ac-3Aib-Cage-3Aib-NHMe. <i>Molecular Simulation</i> , 2010, 36, 1035-1044.	0.9	16
49	Computational Study of the Free Energy Landscape of the Miniprotein CLN025 in Explicit and Implicit Solvent. <i>Journal of Physical Chemistry B</i> , 2011, 115, 1440-1449.	1.2	16
50	Studies on Bacterial Proteins Corona Interaction with Saponin Imprinted ZnO Nanohoneycombs and Their Toxic Responses. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 23848-23856.	4.0	14
51	Simulated annealing study of the pentacyclo-undecane cage amino acid tripeptides of the type [Ac-X-Y-Z-NHMe]. <i>Computational and Theoretical Chemistry</i> , 2006, 759, 145-157.	1.5	13
52	Experimental-Like Affinity Constants and Enantioselectivity Estimates from Flexible Docking. <i>Journal of Chemical Information and Modeling</i> , 2012, 52, 2754-2759.	2.5	13
53	Development of Green Energy Waste Activated Carbon for Removal of Trivalent Chromium: Equilibrium and Kinetic Modeling. <i>Separation Science and Technology</i> , 2014, 49, 513-522.	1.3	13
54	Robust adsorption of Direct Navy Blue-106 from textile industrial effluents by bio-hydrogen fermented waste derived activated carbon: Equilibrium and kinetic studies. <i>Arabian Journal of Chemistry</i> , 2017, 10, S3084-S3096.	2.3	13

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55	Analytical evaluation of steviol glycosides by capillary electrophoresis supported with molecular docking studies. <i>Journal of the Iranian Chemical Society</i> , 2015, 12, 127-136.	1.2	12
56	Structural insights into Rab21 GTPase activation mechanism by molecular dynamics simulations. <i>Molecular Simulation</i> , 2018, 44, 179-189.	0.9	12
57	Selectivity and sensitivity enhanced green energy waste based indirect- β -solid phase extraction of carbaryl supported by DFT and molecular docking studies. <i>Journal of Molecular Liquids</i> , 2018, 257, 112-120.	2.3	11
58	Measurement of TiO ₂ Nanoscale Ingredients in Sunscreens by Multidetector AF4, TEM, and spICP-MS Supported by Computational Modeling. <i>ACS Applied Nano Materials</i> , 2021, 4, 4665-4675.	2.4	11
59	Connecting simulated, bioanalytical, and molecular docking data on the stereoselective binding of (Δ)-catechin to human serum albumin. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 1899-1909.	1.9	10
60	Theoretical insights into the competitive metal bioaffinity of lactoferrin as a metal ion carrier: a DFT study. <i>New Journal of Chemistry</i> , 2019, 43, 16374-16384.	1.4	10
61	Nanostructured pencil graphite electrodes for application as high power biocathodes in miniaturized biofuel cells and bio-batteries. <i>Scientific Reports</i> , 2020, 10, 16535.	1.6	10
62	Synthesis and docking studies of thiophene scaffolds in COX-2. <i>Arkivoc</i> , 2011, 2011, 55-70.	0.3	10
63	Molecular dynamics (MD) simulations of VIP and PACAP27. <i>Biopolymers</i> , 2009, 91, 391-400.	1.2	9
64	Triflic acid promoted fries rearrangement of C-3 vinyl/isopropenyl-azetidin-2-ones: single-pot synthesis of C-3 functionalized-2-aryl-2,3-dihydro-quinoline-4(1H)-ones. <i>RSC Advances</i> , 2014, 4, 41793-41801.	1.7	9
65	An in-silico layer-by-layer adsorption study of the interaction between Rebaudioside A and the T1R2 human sweet taste receptor: modelling and biosensing perspectives. <i>Scientific Reports</i> , 2020, 10, 18391.	1.6	9
66	A molecular dynamics study of the pentacyclo-undecane cage amino acid tripeptide. <i>Computational and Theoretical Chemistry</i> , 2006, 770, 221-228.	1.5	8
67	Theoretical study on the formation of a pentacyclo-undecane cage lactam. <i>Computational and Theoretical Chemistry</i> , 2012, 986, 63-70.	1.1	8
68	β -Lactam-Synthon-Interceded Synthesis of Isatin-Imidazolidine-2-thione Conjugates with Structural Validation using Molecular Dynamic Simulations and Cytotoxic Evaluation. <i>Synlett</i> , 2013, 24, 1865-1869.	1.0	8
69	Determination of Neotame by High-Performance Capillary Electrophoresis Using β -cyclodextrin as a Chiral Selector. <i>Analytical Letters</i> , 2014, 47, 2795-2812.	1.0	8
70	Molecular dynamics simulation of chitinase I from <i>Thermomyces lanuginosus</i> SSBP to ensure optimal activity. <i>Molecular Simulation</i> , 2017, 43, 480-490.	0.9	8
71	Multivariate optimization of differential pulse polarographic catalytic hydrogen wave technique for the determination of nickel(II) in real samples. <i>Arabian Journal of Chemistry</i> , 2017, 10, S2260-S2272.	2.3	8
72	Electrochemical Enzymatic Biosensing of Neotame Supported by Computational Methods. <i>Electroanalysis</i> , 2020, 32, 2669-2680.	1.5	8

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73	Functional Insight into Putative Conserved Proteins of <i>Rickettsia rickettsii</i> and their Virulence Characterization. <i>Current Proteomics</i> , 2015, 12, 101-116.	0.1	8
74	MWCNTs-Fe ₂ O ₃ nanoparticle nanohybrid-based highly sensitive electrochemicalsensor for the detection of kaempferol in broccoli samples. <i>Turkish Journal of Chemistry</i> , 2019, 43, 1229-1243.	0.5	7
75	A molecular dynamics study of the pentacyclo-undecane (PCU) cage polypeptides of the type Ac-3Ala-Cage-3Ala-NHMe. <i>Molecular Simulation</i> , 2007, 33, 1105-1108.	0.9	6
76	CHAPTER 1. Perspective on Analytical Sciences and Nanotechnology. <i>RSC Detection Science</i> , 0, , 1-34.	0.0	6
77	Regio- and Diastereoselective Nitroso Diels-Alder Cycloaddition Reactions of 3-dienyl-2-azetidinones with Nitrosoarenes. <i>Letters in Organic Chemistry</i> , 2012, 9, 411-421.	0.2	5
78	Synthetic Studies on the Role of Substituents at C-3 Position on C3-C4 Bond Cleavage of β -Lactam Ring: Convenient Route for Diastereoselective Synthesis of Pyridin-2-ones. <i>Heterocycles</i> , 2012, 86, 1301.	0.4	5
79	Prospective computational design and in vitro bio-analytical tests of new chemical entities as potential selective CYP17A1 lyase inhibitors. <i>Bioorganic Chemistry</i> , 2020, 94, 103462.	2.0	5
80	Multivariate optimization of field-flow fractionation of nanoscale synthetic amorphous silica in processed foods supported by computational modelling. <i>New Journal of Chemistry</i> , 2020, 44, 17542-17551.	1.4	4
81	Monitoring of Cetylpyridinium Chloride Levels in Surface Waters: Patent Blue-V as Selective Ligand for Spectrophotometric Determination. <i>Asian Journal of Chemistry</i> , 2016, 28, 1039-1042.	0.1	4
82	Electrocatalysis of Endosulfan Based on Fe ₃ O ₄ : An Experimental and Computational Approach. <i>ACS Omega</i> , 2021, 6, 30515-30525.	1.6	4
83	Conformational profile of bombesin assessed using different computational protocols. <i>Journal of Molecular Graphics and Modelling</i> , 2010, 29, 581-590.	1.3	3
84	Seasonal Variation and Distribution of Anionic Surfactants in and around Tirupati: A Famous Pilgrim Centre in South India. <i>Asian Journal of Chemistry</i> , 2015, 27, 3655-3657.	0.1	3
85	A pH based molecular dynamics simulations of chitinase II isolated from <i>Thermomyces lanuginosus</i> SSBP. <i>Cogent Biology</i> , 2016, 2, 1168336.	1.7	3
86	Classification and Functional Analyses of Putative Conserved Proteins from <i>Chlamydophila pneumoniae</i> CWL029. <i>Interdisciplinary Sciences, Computational Life Sciences</i> , 2017, 9, 96-106.	2.2	3
87	The structural basis of acid resistance in <i>Mycobacterium tuberculosis</i> : insights from multiple pH regime molecular dynamics simulations. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, 38, 4483-4492.	2.0	3
88	A combined experimental-computational approach for electrocatalytic detection of epinephrine using nanocomposite sensor based on polyaniline/nickel oxide. <i>Journal of Electroanalytical Chemistry</i> , 2022, 911, 116204.	1.9	3
89	Determination of lead and cadmium in seawater by differential pulse anodic stripping voltammetry: fit-for-purpose partial validation and internal quality aspects. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 392, 277-286.	1.9	2
90	Comparative structural studies of T-20 analogues using molecular dynamics. <i>Computational and Theoretical Chemistry</i> , 2011, 974, 122-132.	1.1	2

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91	Conformational space search of Neuromedin C using replica exchange molecular dynamics and molecular dynamics. <i>Journal of Peptide Science</i> , 2011, 17, 174-183.	0.8	2
92	Novel Dithiocarbamates for Electrochemical Detection of Nickel(II) in Environmental Samples. <i>Asian Journal of Chemistry</i> , 2015, 27, 3598-3604.	0.1	2
93	Functionalized Electrochemical Aptasensor for Sensing of Ochratoxin A in Cereals Supported by <i>in Silico</i> Adsorption Studies. <i>ACS Food Science & Technology</i> , 2021, 1, 1849-1860.	1.3	2
94	Special Properties of Nanomaterials for Chromatography. , 2018, , 37-54.		1
95	Evaluation of the catalytic activity of graphene oxide and zinc oxide nanoparticles on the electrochemical sensing of T1R2-Rebaudioside A complex supported by <i>in silico</i> methods. <i>Pure and Applied Chemistry</i> , 2021, 93, 1171-1180.	0.9	1
96	Removal of Targeted Pharmaceuticals and Personal Care Products from Wastewater Treatment Plants using QSAR Model. <i>Current Analytical Chemistry</i> , 2021, 17, 1003-1015.	0.6	1
97	Separation of Sucralose in Food Samples using Amines as Background Electrolyte Supported with DFT Calculations. <i>Current Analytical Chemistry</i> , 2021, 17, 989-1002.	0.6	1
98	Conformational Study of the PCU Cage Monopeptide: A Key Role of Some Force-Field Parameters. <i>Journal of Physical Chemistry B</i> , 2009, 113, 5234-5238.	1.2	0
99	A computational study of Neuromedin B. <i>Computational and Theoretical Chemistry</i> , 2011, 971, 1-7.	1.1	0
100	Dithiocarbamate Induced Catalytic Hydrogen Wave for the determination of Iron (II) in Waters and Leafy Vegetables: Experimental and Computational Approach. <i>International Journal of Electrochemical Science</i> , 2016, , 8027-8045.	0.5	0
101	Classification and functional analyses of putative virulence factors of <i>Mycobacterium tuberculosis</i> : A combined sequence and structure based study. <i>Computational Biology and Chemistry</i> , 2020, 87, 107270.	1.1	0
102	Sensitivity Enhancement of Pre-Capillary Chelation Method for the Separation of Metal Ions: Experimental and DFT Study. <i>Current Analytical Chemistry</i> , 2021, 17, 839-848.	0.6	0
103	Molecular Simulation of Chiral Selector-Enantiomer Interactions through Docking: Antimalarial Drugs as Case Study. , 2017, , 363-384.		0
104	Role of Computational Tools in Designing Enzymatic Biosensors for the Detection of Pesticides in Environment. , 2018, , 287-311.		0