

# Gopinatha Suresh Kumar

## List of Publications by Year in descending order

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192  
papers

6,923  
citations

47006  
47  
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91884  
69  
g-index

193  
all docs

193  
docs citations

193  
times ranked

4894  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biophysical and molecular modeling evidences for the binding of sulfa molecules with hemoglobin. Journal of Biomolecular Structure and Dynamics, 2023, 41, 3779-3790.	3.5	9
2	Heme Protein Binding of Sulfonamide Compounds: A Correlation Study by Spectroscopic, Calorimetric, and Computational Methods. ACS Omega, 2022, 7, 4932-4944.	3.5	11
3	Design and synthesis of a sulphur containing Schiff base drug: DNA binding studies and theoretical calculations. Journal of Biomolecular Structure and Dynamics, 2021, 39, 263-271.	3.5	5
4	Combined theoretical and experimental investigation of a DNA interactive poly-hydroxyl enamine tautomer exhibiting "turn on" sensing for Zn <sup>2+</sup> in pseudo-aqueous medium. New Journal of Chemistry, 2021, 45, 20806-20817.	2.8	5
5	Interaction of proflavine with the RNA polynucleotide polyriboadenylic acid/polyribouridylic acid: photophysical and calorimetric studies. Journal of Biomolecular Structure and Dynamics, 2020, 38, 1-8.	3.5	2
6	New DNA-Interactive Manganese(II) Complex of Amidooxime: Crystal Structure, DFT Calculation, Biophysical and Molecular Docking Studies. Journal of Chemical & Engineering Data, 2020, 65, 5393-5404.	1.9	9
7	DNA intercalative trinuclear Cu(II) complex with new trans axial nitrato ligation as an efficient catalyst for atmospheric CO <sub>2</sub> fixation to epoxides. CrystEngComm, 2020, 22, 8374-8386.	2.6	6
8	Adaptable DNA-Interactive Probe Proficient at Selective Turn-On Sensing for Al <sup>3+</sup> : Insight from the Crystal Structure, Photophysical Studies, and Molecular Logic Gate. ACS Omega, 2020, 5, 18411-18423.	3.5	17
9	Polyamines and its analogue modulates amyloid fibrillation in lysozyme: A comparative investigation. Biochimica Et Biophysica Acta - General Subjects, 2020, 1864, 129557.	2.4	7
10	On the Biophysical Investigation of Sulfamethazine-Hemoglobin Binding and the Resulting Adverse Effects of Antibiotics. ChemistrySelect, 2020, 5, 13619-13627.	1.5	10
11	Biophysical and Thermodynamic Investigations on the Differentiation of Fluorescence Response towards Interaction of DNA: A Pyrene-Based Receptor versus Its Fe(III) Complex. ACS Applied Bio Materials, 2020, 3, 7810-7820.	4.6	11
12	Interaction of the putative anticancer alkaloid chelerythrine with nucleic acids: biophysical perspectives. Biophysical Reviews, 2020, 12, 1369-1386.	3.2	11
13	Targeting nucleic acid with a bioactive fluorophore: Insights from spectroscopic and calorimetric studies. Journal of Molecular Structure, 2020, 1220, 128690.	3.6	9
14	Pyridine Derivative of the Natural Alkaloid Berberine as Human Telomeric G <sub>4</sub> -DNA Binder: A Solution and Solid-State Study. ACS Medicinal Chemistry Letters, 2020, 11, 645-650.	2.8	20
15	Insights on the interaction of phenothiazinium dyes methylene blue and new methylene blue with synthetic duplex RNAs through spectroscopy and modeling. Journal of Photochemistry and Photobiology B: Biology, 2020, 204, 111804.	3.8	9
16	Interaction of aloe active compounds with calf thymus DNA. Journal of Molecular Recognition, 2019, 32, e2786.	2.1	6
17	Adaptable sensor for employing fluorometric detection of methanol molecules: theoretical aspects and DNA binding studies. New Journal of Chemistry, 2019, 43, 8982-8992.	2.8	22
18	Effect of bovine serum albumin on tartrate-modified manganese ferrite nano hollow spheres: spectroscopic and toxicity study. Physical Chemistry Chemical Physics, 2019, 21, 10726-10737.	2.8	8

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19	Targeting human telomeric DNA quadruplex with novel berberrubine derivatives: insights from spectroscopic and docking studies. <i>Journal of Biomolecular Structure and Dynamics</i> , 2019, 37, 1375-1389.	3.5	15
20	Calorimetric insights into the interaction of novel berberrubine derivatives with human telomeric G-quadruplex DNA sequence. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 132, 623-630.	3.6	8
21	Thermodynamic analysis of the complexation of quinacrine with tRNAPhe. <i>Journal of Chemical Thermodynamics</i> , 2018, 120, 27-32.	2.0	5
22	Rhodamine based turn-on chemosensor for Fe <sup>3+</sup> in aqueous medium and interactions of its Fe <sup>3+</sup> complex with DNA. <i>New Journal of Chemistry</i> , 2018, 42, 3435-3443.	2.8	24
23	A new insight into the interaction of ZnO with calf thymus DNA through surface defects. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 178, 339-347.	3.8	28
24	Comparative Study of Toluidine Blue O and Methylene Blue Binding to Lysozyme and Their Inhibitory Effects on Protein Aggregation. <i>ACS Omega</i> , 2018, 3, 2588-2601.	3.5	37
25	Lipid chain saturation and the cholesterol in the phospholipid membrane affect the spectroscopic properties of lipophilic dye Nile red. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 191, 104-110.	3.9	19
26	Influence of the ionic liquid 1-butyl-3-methylimidazolium bromide on amyloid fibrillogenesis in lysozyme: Evidence from photophysical and imaging studies. <i>International Journal of Biological Macromolecules</i> , 2018, 107, 2643-2649.	7.5	22
27	Thionine Conjugated Gold Nanoparticles Trigger Apoptotic Activity Toward HepG2 Cancer Cell Line. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 635-646.	5.2	13
28	Exploring the binding interaction of potent anticancer drug topotecan with human serum albumin: spectroscopic, calorimetric and fibrillation study. <i>Journal of Biomolecular Structure and Dynamics</i> , 2018, 36, 2463-2473.	3.5	18
29	Preliminary study on effect of nano-hydroxyapatite and mesoporous bioactive glass on DNA. <i>Journal of Materials Research</i> , 2018, 33, 1592-1601.	2.6	7
30	Effect of Zwitterionic Phospholipid on the Interaction of Cationic Membranes with Monovalent Sodium Salts. <i>Langmuir</i> , 2018, 34, 9810-9817.	3.5	7
31	Egg-shell derived carbon dots for base pair selective DNA binding and recognition. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 20476-20488.	2.8	41
32	Multiband Fluorescent Graphitic Carbon Nanoparticles from Queen of Oils. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 10127-10139.	6.7	13
33	Synthesis, structure and DNA binding studies of oxime based [Mn3(μ <sub>3</sub> -O)] <sup>7+</sup> complex. <i>Inorganica Chimica Acta</i> , 2018, 483, 211-217.	2.4	13
34	Fluorescent ZnO@Au Nanocomposite as a Probe for Elucidating Specificity in DNA Interaction. <i>ACS Omega</i> , 2018, 3, 7494-7507.	3.5	23
35	Single sensors for multiple analytes employing fluorometric differentiation for Cr <sup>3+</sup> and Al <sup>3+</sup> in semi-aqueous medium with bio-activity and theoretical aspects. <i>Analytical Methods</i> , 2018, 10, 4063-4072.	2.7	21
36	Nucleic acids binding strategies of small molecules: Lessons from alkaloids. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 1995-2016.	2.4	17

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37	A comparative spectroscopic and calorimetric investigation of the interaction of amsacrine with heme proteins, hemoglobin and myoglobin. <i>Journal of Biomolecular Structure and Dynamics</i> , 2017, 35, 1260-1271.	3.5	10
38	Exploring the interaction of phenothiazinium dyes methylene blue, new methylene blue, azure A and azure B with tRNA <sup>Phe</sup> : spectroscopic, thermodynamic, voltammetric and molecular modeling approach. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 6636-6653.	2.8	22
39	Binding and Inhibitory Effect of the Dyes Amaranth and Tartrazine on Amyloid Fibrillation in Lysozyme. <i>Journal of Physical Chemistry B</i> , 2017, 121, 1222-1239.	2.6	34
40	Synthesis, characterization, structure, DNA binding aspects and molecular docking study of a novel Schiff base ligand and its bis(¼-chloro) bridged Cu(II) dimer. <i>Polyhedron</i> , 2017, 126, 195-204.	2.2	14
41	Targeting human telomeric G-quadruplex DNA with antitumour natural alkaloid aristolactam-1 <sup>2</sup> -D-glucoside and its comparison with daunomycin. <i>Journal of Molecular Recognition</i> , 2017, 30, e2639.	2.1	14
42	Interaction and inhibitory influence of the azo dye carmoisine on lysozyme amyloid fibrillogenesis. <i>Molecular BioSystems</i> , 2017, 13, 1552-1564.	2.9	14
43	Synthesis, characterization, structure and DNA binding aspects of a trinuclear copper(II) complex having a Cu <sub>3</sub> O core. <i>Inorganica Chimica Acta</i> , 2017, 462, 158-166.	2.4	11
44	Small molecule induced poly(A) single strand to self-structure conformational switching: evidence for the prominent role of H-bonding interactions. <i>Molecular BioSystems</i> , 2017, 13, 1000-1009.	2.9	10
45	Naphthalenediimide-Linked Bisbenzimidazole Derivatives as Telomeric G-Quadruplex-Stabilizing Ligands with Improved Anticancer Activity. <i>ACS Omega</i> , 2017, 2, 966-980.	3.5	19
46	Selective Binding of Genomic <i>Escherichia coli</i> DNA with ZnO Leads to White Light Emission: A New Aspect of Nano-Bio Interaction and Interface. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 644-657.	8.0	19
47	Binding interaction of phenothiazinium dyes with double stranded RNAs: Spectroscopic and calorimetric investigation. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017, 167, 99-110.	3.8	6
48	Small molecule-RNA recognition: Binding of the benzophenanthridine alkaloids sanguinarine and chelerythrine to single stranded polyribonucleotides. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017, 174, 173-181.	3.8	10
49	Design and development of bioactive 1 <sup>±</sup> -hydroxy carboxylate group modified MnFe <sub>2</sub> O <sub>4</sub> nanoparticle: Comparative fluorescence study, magnetism and DNA nuclease activity. <i>Materials Today Chemistry</i> , 2017, 5, 92-100.	3.5	12
50	Spectroscopic, calorimetric, cyclic voltammetric and molecular modeling studies of new methylene blue-polyadenylic acid interaction and comparison to thionine and toluidine blue O: Understanding self-structure formation by planar dyes. <i>Dyes and Pigments</i> , 2017, 136, 205-218.	3.7	12
51	Spectroscopic and microcalorimetric studies on the molecular binding of food colorant acid red 27 with deoxyribonucleic acid. <i>Journal of Molecular Recognition</i> , 2016, 29, 363-369.	2.1	2
52	Binding of fluorescent acridine dyes acridine orange and 9-aminoacridine to hemoglobin: Elucidation of their molecular recognition by spectroscopy, calorimetry and molecular modeling techniques. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 159, 169-178.	3.8	53
53	Thermodynamics of the induction of self-structure in polyadenylic acid by proflavine. <i>Journal of Chemical Thermodynamics</i> , 2016, 100, 100-105.	2.0	9
54	Spectroscopic and calorimetric investigations on the binding of phenazinium dyes safranin-O and phenosafranin to double stranded RNA polynucleotides. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 161, 129-140.	3.8	7

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55	Sanguinarine and Its Role in Chronic Diseases. <i>Advances in Experimental Medicine and Biology</i> , 2016, 928, 155-172.	1.6	26
56	Molecular Recognition of tRNA with 1-Naphthyl Acetyl Spermine, Spermine, and Spermidine: A Thermodynamic, Biophysical, and Molecular Docking Investigative Approach. <i>Journal of Physical Chemistry B</i> , 2016, 120, 10871-10884.	2.6	3
57	Probing the binding of anticancer drug topotecan with human hemoglobin: Structural and thermodynamic studies. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 163, 185-193.	3.8	14
58	Binding of the putative anticancer agent chelerythrine to double stranded poly(A): Calorimetry and spectral characterization studies. <i>Journal of Chemical Thermodynamics</i> , 2016, 103, 228-233.	2.0	3
59	Effect of counterions on the binding affinity of Na <sup>+</sup> ions with phospholipid membranes. <i>RSC Advances</i> , 2016, 6, 83916-83925.	3.6	7
60	Design and application of Au decorated ZnO/TiO <sub>2</sub> as a stable photocatalyst for wide spectral coverage. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 31622-31633.	2.8	50
61	Visualization of Stepwise Drug-Micelle Aggregate Formation and Correlation with Spectroscopic and Calorimetric Results. <i>Journal of Physical Chemistry B</i> , 2016, 120, 11751-11760.	2.6	15
62	A biophysical investigation on the binding of proflavine with human hemoglobin: Insights from spectroscopy, thermodynamics and AFM studies. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 165, 42-50.	3.8	10
63	Structural and thermodynamic analysis of the binding of tRNA <sup>phe</sup> by the putative anticancer alkaloid chelerythrine: Spectroscopy, calorimetry and molecular docking studies. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 161, 335-344.	3.8	7
64	Microcalorimetry and spectroscopic studies on the binding of dye janus green blue to deoxyribonucleic acid. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 123, 1993-2001.	3.6	1
65	Unraveling the Interaction of Silver Nanoparticles with Mammalian and Bacterial DNA. <i>Journal of Physical Chemistry B</i> , 2016, 120, 5313-5324.	2.6	75
66	Coralyn induced self-structure in polyadenylic acid: Thermodynamics of the structural reorganization. <i>Journal of Chemical Thermodynamics</i> , 2016, 101, 221-226.	2.0	12
67	Calorimetric investigation on the interaction of proflavine with human telomeric G-quadruplex DNA. <i>Journal of Chemical Thermodynamics</i> , 2016, 98, 208-213.	2.0	16
68	Selective detection of Escherichia coli DNA using fluorescent carbon spindles. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 12270-12277.	2.8	12
69	Binding of monovalent alkali metal ions with negatively charged phospholipid membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 706-714.	2.6	38
70	Synthetic, structural, electrochemical and DNA-binding aspects of a novel oximate bridged copper(II) dimer. <i>Polyhedron</i> , 2016, 110, 227-234.	2.2	17
71	A microcalorimetric study on the binding of proflavine with tRNA <sup>phe</sup> . <i>Journal of Chemical Thermodynamics</i> , 2016, 97, 173-178.	2.0	9
72	The use of calorimetry in the biophysical characterization of small molecule alkaloids binding to RNA structures. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016, 1860, 930-944.	2.4	17

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73	Binding of the alkaloid aristololactam-Î <sup>2</sup> -D-glucoside and daunomycin to human hemoglobin: spectroscopy and calorimetry studies. <i>Journal of Biomolecular Structure and Dynamics</i> , 2016, 34, 800-813.	3.5	9
74	Spectroscopic studies on the binding interaction of phenothiazinium dyes, azure A and azure B to double stranded RNA polynucleotides. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 152, 417-425.	3.9	26
75	Studies on the interaction of the food colorant tartrazine with double stranded deoxyribonucleic acid. <i>Journal of Biomolecular Structure and Dynamics</i> , 2016, 34, 935-942.	3.5	13
76	Recent Advances in Nucleic Acid Binding Aspects of Berberine Analogs and Implications for Drug Design. <i>Mini-Reviews in Medicinal Chemistry</i> , 2015, 16, 104-109.	2.4	16
77	Thermodynamic characterization of proflavineâ€™DNA binding through microcalorimetric studies. <i>Journal of Chemical Thermodynamics</i> , 2015, 87, 1-7.	2.0	26
78	Natural isoquinoline alkaloids: binding aspects to functional proteins, serum albumins, hemoglobin, and lysozyme. <i>Biophysical Reviews</i> , 2015, 7, 407-420.	3.2	71
79	A comparative study on the interaction of the putative anticancer alkaloids, sanguinarine and chelerythrine, with single- and double-stranded, and heat-denatured DNAs. <i>Journal of Biomolecular Structure and Dynamics</i> , 2015, 33, 2594-2605.	3.5	6
80	Binding of carmoisine, a food colorant, with hemoglobin: Spectroscopic and calorimetric studies. <i>Food Research International</i> , 2015, 72, 54-61.	6.2	55
81	Structural and thermodynamic basis of interaction of the putative anticancer agent chelerythrine with single, double and triple-stranded RNAs. <i>RSC Advances</i> , 2015, 5, 29953-29964.	3.6	17
82	Interaction of toxic azo dyes with heme protein: Biophysical insights into the binding aspect of the food additive amaranth with human hemoglobin. <i>Journal of Hazardous Materials</i> , 2015, 289, 204-209.	12.4	65
83	Chelerythrineâ€™lysozyme interaction: spectroscopic studies, thermodynamics and molecular modeling exploration. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 16630-16645.	2.8	67
84	New 13-pyridinealkyl berberine analogues intercalate to DNA and induce apoptosis in HepG2 and MCF-7 cells through ROS mediated p53 dependent pathway: biophysical, biochemical and molecular modeling studies. <i>RSC Advances</i> , 2015, 5, 90632-90644.	3.6	26
85	A thermodynamic investigation on the binding of phenothiazinium dyes azure A and azure B to double stranded RNA polynucleotides. <i>Journal of Chemical Thermodynamics</i> , 2015, 91, 225-233.	2.0	10
86	Thermodynamics of the interaction of the food additive tartrazine with serum albumins: A microcalorimetric investigation. <i>Food Chemistry</i> , 2015, 175, 137-142.	8.2	48
87	Entropy driven binding of the alkaloid chelerythrine to polyadenylic acid leads to spontaneous self-assembled structure formation. <i>Journal of Chemical Thermodynamics</i> , 2015, 81, 116-123.	2.0	20
88	Sanguinarine, a promising anticancer therapeutic: photochemical and nucleic acid binding properties. <i>RSC Advances</i> , 2014, 4, 56518-56531.	3.6	35
89	Elucidating the energetics of the interaction of non-toxic dietary pigment curcumin with human serum albumin: A calorimetric study. <i>Journal of Chemical Thermodynamics</i> , 2014, 70, 176-181.	2.0	26
90	Minor Groove Binding of the Food Colorant Carmoisine to DNA: Spectroscopic and Calorimetric Characterization Studies. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 317-326.	5.2	49



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91	Probing the interaction of spermine and 1-naphthyl acetyl spermine with DNA polynucleotides: a comparative biophysical and thermodynamic investigation. <i>Molecular BioSystems</i> , 2014, 10, 1172-1183.	2.9	35
92	Binding of the Iminium and Alkanolamine Forms of Sanguinarine to Lysozyme: Spectroscopic Analysis, Thermodynamics, and Molecular Modeling Studies. <i>Journal of Physical Chemistry B</i> , 2014, 118, 13077-13091.	2.6	63
93	Calorimetry and thermal analysis studies on the binding of 13-phenylalkyl and 13-diphenylalkyl berberine analogs to tRNA <sup>phe</sup> . <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 118, 461-473.	3.6	10
94	Self-structure formation in polyadenylic acid by small molecules: new insights from the binding of planar dyes thionine and toluidine blue O. <i>RSC Advances</i> , 2014, 4, 25666-25674.	3.6	14
95	Targeting the heme proteins hemoglobin and myoglobin by janus green blue and study of the dye-protein association by spectroscopy and calorimetry. <i>RSC Advances</i> , 2014, 4, 42706-42715.	3.6	40
96	Synthesis of new 13-diphenylalkyl analogues of berberine and elucidation of their base pair specificity and energetics of DNA binding. <i>MedChemComm</i> , 2014, 5, 226.	3.4	27
97	Photophysical and calorimetric investigation on the structural reorganization of poly(A) by phenothiazinium dyes azure A and azure B. <i>Photochemical and Photobiological Sciences</i> , 2014, 13, 1192-1202.	2.9	14
98	Elucidation of the DNA binding specificity of the natural plant alkaloid chelerythrine: A biophysical approach. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014, 138, 282-294.	3.8	23
99	Interaction of the dietary pigment curcumin with hemoglobin: energetics of the complexation. <i>Food and Function</i> , 2014, 5, 1949-1955.	4.6	36
100	Targeting Double-Stranded RNA with Spermine, 1-Naphthylacetyl Spermine and Spermidine: A Comparative Biophysical Investigation. <i>Journal of Physical Chemistry B</i> , 2014, 118, 11050-11064.	2.6	20
101	Binding of alkaloids berberine, palmatine and coralyne to lysozyme: a combined structural and thermodynamic study. <i>RSC Advances</i> , 2014, 4, 12514.	3.6	98
102	Structural and Thermodynamic Studies on the Interaction of Iminium and Alkanolamine Forms of Sanguinarine with Hemoglobin. <i>Journal of Physical Chemistry B</i> , 2014, 118, 3771-3784.	2.6	79
103	Targeting Proteins with Toxic Azo Dyes: A Microcalorimetric Characterization of the Interaction of the Food Colorant Amaranth with Serum Proteins. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 7955-7962.	5.2	35
104	Binding studies of aristololactam- $\beta$ -D-glucoside and daunomycin to human serum albumin. <i>RSC Advances</i> , 2014, 4, 33082-33090.	3.6	36
105	Study on the interaction of the toxic food additive carmoisine with serum albumins: A microcalorimetric investigation. <i>Journal of Hazardous Materials</i> , 2014, 273, 200-206.	12.4	56
106	Phenazinium dyes safranin O and phenosafranin induce self-structure in single stranded polyadenylic acid: Structural and thermodynamic studies. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014, 132, 17-26.	3.8	21
107	Interaction of phenazinium dyes with double-stranded poly(A): Spectroscopy and isothermal titration calorimetry studies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 131, 615-624.	3.9	8
108	Spectroscopic studies on the binding interaction of novel 13-phenylalkyl analogs of the natural alkaloid berberine to nucleic acid triplexes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 120, 257-264.	3.9	11

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109	Binding of novel 9-O- $\beta$ -N-aryl/arylalkyl amino carbonyl methyl berberine analogs to poly(U)-poly(A)-poly(U) triplex and comparison to the duplex poly(A)-poly(U). <i>Molecular Biology Reports</i> , 2014, 41, 5473-5483.	2.3	13
110	Intercalative interaction of the anticancer drug mitoxantrone with double stranded DNA: A calorimetric characterization of the energetics. <i>Journal of Chemical Thermodynamics</i> , 2014, 75, 45-51.	2.0	32
111	Interaction of 9-O-N-aryl/arylalkyl amino carbonyl methyl berberine analogs with single stranded ribonucleotides. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014, 134, 64-74.	3.8	9
112	Interaction of 9-O-( $\beta$ -amino) alkyl ether berberine analogs with poly(dT)-poly(dA)-poly(dT) triplex and poly(dA)-poly(dT) duplex: a comparative study. <i>Molecular Biology Reports</i> , 2013, 40, 5439-5450.	2.3	22
113	Binding of plant alkaloids berberine and palmatine to serum albumins: a thermodynamic investigation. <i>Molecular Biology Reports</i> , 2013, 40, 553-566.	2.3	44
114	Binding of the plant alkaloid aristololactam- $\beta$ -d-glucoside and antitumor antibiotic daunomycin to single stranded polyribonucleotides. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013, 1830, 4708-4718.	2.4	11
115	Thermodynamics of the DNA binding of phenothiazinium dyes toluidine blue O, azure A and azure B. <i>Journal of Chemical Thermodynamics</i> , 2013, 64, 50-57.	2.0	30
116	Targeting ribonucleic acids by toxic small molecules: Structural perturbation and energetics of interaction of phenothiazinium dyes thionine and toluidine blue O to tRNA <sup>phe</sup> . <i>Journal of Hazardous Materials</i> , 2013, 263, 735-745.	12.4	15
117	Biophysical studies on curcumin-deoxyribonucleic acid interaction: Spectroscopic and calorimetric approach. <i>International Journal of Biological Macromolecules</i> , 2013, 62, 257-264.	7.5	39
118	Photophysical and calorimetric studies on the binding of 9-O-substituted analogs of the plant alkaloid berberine to double stranded poly(A). <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2013, 125, 105-114.	3.8	16
119	Phenazinium dyes methylene violet 3RAX and indole blue bind to DNA by intercalation: Evidence from structural and thermodynamic studies. <i>Dyes and Pigments</i> , 2013, 96, 81-91.	3.7	30
120	Synthesis, structure and DNA binding studies of 9-phenyldibenzo[a,c] phenazin-9-ium. <i>RSC Advances</i> , 2013, 3, 3054.	3.6	9
121	Binding of isoquinoline alkaloids berberine, palmatine and coralyne to hemoglobin: structural and thermodynamic characterization studies. <i>Molecular BioSystems</i> , 2013, 9, 143-153.	2.9	78
122	Spectroscopic studies on the binding interaction of phenothiazinium dyes toluidine blue O, azure A and azure B to DNA. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 107, 303-310.	3.9	60
123	Thermodynamic investigations of ligand-protein interactions: Binding of the phenazinium dyes phenosafranin and safranin O with human serum albumin. <i>Journal of Chemical Thermodynamics</i> , 2013, 56, 114-122.	2.0	27
124	Thermodynamics of the DNA binding of biogenic polyamines: Calorimetric and spectroscopic investigations. <i>Journal of Chemical Thermodynamics</i> , 2013, 57, 445-453.	2.0	27
125	The benzophenanthridine alkaloid chelerythrine binds to DNA by intercalation: Photophysical aspects and thermodynamic results of iminium versus alkanolamine interaction. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2013, 129, 57-68.	3.8	54
126	Binding of the 9-O-N-aryl/arylalkyl Amino Carbonyl Methyl Substituted Berberine Analogs to tRNA <sup>phe</sup> . <i>PLoS ONE</i> , 2013, 8, e58279.	2.5	33



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127	Binding of the Biogenic Polyamines to Deoxyribonucleic Acids of Varying Base Composition: Base Specificity and the Associated Energetics of the Interaction. PLoS ONE, 2013, 8, e70510.	2.5	48
128	Probing the binding of two sugar bearing anticancer agents aristololactam- $\beta$ -D-glucoside and daunomycin to double stranded RNA polynucleotides: a combined spectroscopic and calorimetric study. Molecular BioSystems, 2012, 8, 1958.	2.9	37
129	9-O-N-aryl/arylalkyl amino carbonyl methyl substituted berberine analogues induce self-structure in polyadenylic acid. RSC Advances, 2012, 2, 7714.	3.6	25
130	Eggshell membrane: a natural biotemplate to synthesize fluorescent gold nanoparticles. RSC Advances, 2012, 2, 11578.	3.6	69
131	Binding of the anticancer alkaloid sanguinarine with tRNA <sup>phe</sup> : spectroscopic and calorimetric studies. Journal of Biomolecular Structure and Dynamics, 2012, 30, 223-234.	3.5	30
132	Drug-DNA binding thermodynamics: A comparative study of aristololactam- $\beta$ -D-glucoside and daunomycin. Journal of Chemical Thermodynamics, 2012, 54, 421-428.	2.0	30
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