

Gopinatha Suresh Kumar

List of Publications by Year in descending order

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192
papers

6,923
citations

46918

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193
docs citations

193
times ranked

4894
citing authors

#	ARTICLE	IF	CITATIONS
1	Therapeutic potential of nucleic acid-binding isoquinoline alkaloids: Binding aspects and implications for drug design. <i>Medicinal Research Reviews</i> , 2011, 31, 821-862.	5.0	258
2	Molecular aspects on the interaction of protoberberine, benzophenanthridine, and aristolochia group of alkaloids with nucleic acid structures and biological perspectives. <i>Medicinal Research Reviews</i> , 2007, 27, 649-695.	5.0	160
3	Interaction of berberine, palmatine, coralyne, and sanguinarine to quadruplex DNA: A comparative spectroscopic and calorimetric study. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2011, 1810, 485-496.	1.1	151
4	Spectroscopic and Calorimetric Studies on the Binding of Alkaloids Berberine, Palmatine and Coralyne to Double Stranded RNA Polynucleotides. <i>Journal of Physical Chemistry B</i> , 2009, 113, 1210-1224.	1.2	140
5	Molecular aspects on the interaction of phenosafranine to deoxyribonucleic acid: Model for intercalative drug-DNA binding. <i>Journal of Molecular Structure</i> , 2008, 872, 56-63.	1.8	137
6	RNA binding small molecules: Studies on t-RNA binding by cytotoxic plant alkaloids berberine, palmatine and the comparison to ethidium. <i>Biophysical Chemistry</i> , 2007, 125, 508-520.	1.5	130
7	The binding of DNA intercalating and non-intercalating compounds to A-form and protonated form of poly(rC)-poly(rG): Spectroscopic and viscometric study. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 800-814.	1.4	124
8	Molecular recognition of DNA by small molecules: AT base pair specific intercalative binding of cytotoxic plant alkaloid palmatine. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2007, 1770, 1071-1080.	1.1	123
9	Interaction of Isoquinoline Alkaloids with an RNA Triplex: Structural and Thermodynamic Studies of Berberine, Palmatine, and Coralyne Binding to Poly(U).Poly(A) _*Poly(U). <i>Journal of Physical Chemistry B</i> , 2009, 113, 13410-13420.	1.2	119
10	Self-structure induction in single stranded poly(A) by small molecules: Studies on DNA intercalators, partial intercalators and groove binding molecules. <i>Archives of Biochemistry and Biophysics</i> , 2008, 474, 183-192.	1.4	107
11	Binding of alkaloids berberine, palmatine and coralyne to lysozyme: a combined structural and thermodynamic study. <i>RSC Advances</i> , 2014, 4, 12514.	1.7	98
12	Spectroscopic and Thermodynamic Studies on the Binding of Sanguinarine and Berberine to Triple and Double Helical DNA and RNA Structures. <i>Journal of Biomolecular Structure and Dynamics</i> , 2003, 20, 703-713.	2.0	94
13	DNA intercalation of methylene blue and quinacrine: new insights into base and sequence specificity from structural and thermodynamic studies with polynucleotides. <i>Molecular BioSystems</i> , 2009, 5, 1311.	2.9	94
14	Berberine, a strong polyriboadenylic acid binding plant alkaloid: spectroscopic, viscometric, and thermodynamic study. <i>Bioorganic and Medicinal Chemistry</i> , 2005, 13, 165-174.	1.4	89
15	RNA targeting through binding of small molecules: Studies on t-RNA binding by the cytotoxic protoberberine alkaloid coralyne. <i>Molecular BioSystems</i> , 2009, 5, 244-254.	2.9	82
16	Interaction of the Anticancer Plant Alkaloid Sanguinarine with Bovine Serum Albumin. <i>PLoS ONE</i> , 2011, 6, e18333.	1.1	81
17	DNA Intercalation by Quinacrine and Methylene Blue: A Comparative Binding and Thermodynamic Characterization Study. <i>DNA and Cell Biology</i> , 2008, 27, 81-90.	0.9	79
18	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.	1.2	79

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19	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
20	Binding of DNA-binding alkaloids berberine and palmatine to tRNA and comparison to ethidium: Spectroscopic and molecular modeling studies. <i>Journal of Molecular Structure</i> , 2008, 891, 498-507.	1.8	75
21	Berberineâ€™DNA complexation: New insights into the cooperative binding and energetic aspects. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2008, 1780, 1054-1061.	1.1	75
22	Unraveling the Interaction of Silver Nanoparticles with Mammalian and Bacterial DNA. <i>Journal of Physical Chemistry B</i> , 2016, 120, 5313-5324.	1.2	75
23	Biophysical Studies on the Effect of the 13 Position Substitution of the Anticancer Alkaloid Berberine on Its DNA Binding. <i>Journal of Physical Chemistry B</i> , 2012, 116, 2314-2324.	1.2	72
24	Specific binding and self-structure induction to poly(A) by the cytotoxic plant alkaloid sanguinarine. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2007, 1770, 1419-1426.	1.1	71
25	Natural isoquinoline alkaloids: binding aspects to functional proteins, serum albumins, hemoglobin, and lysozyme. <i>Biophysical Reviews</i> , 2015, 7, 407-420.	1.5	71
26	Eggshell membrane: a natural biotemplate to synthesize fluorescent gold nanoparticles. <i>RSC Advances</i> , 2012, 2, 11578.	1.7	69
27	Synthesis of novel 9-O-N-aryl/arylâ€™alkyl amino carbonyl methyl substituted berberine analogs and evaluation of DNA binding aspects. <i>Bioorganic and Medicinal Chemistry</i> , 2012, 20, 2498-2505.	1.4	68
28	Chelerythrineâ€™lysozyme interaction: spectroscopic studies, thermodynamics and molecular modeling exploration. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 16630-16645.	1.3	67
29	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.	6.5	65
30	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.	1.2	63
31	Biophysical studies on the base specificity and energetics of the DNA interaction of photoactive dye thionine: Spectroscopic and calorimetric approach. <i>Biophysical Chemistry</i> , 2010, 148, 93-103.	1.5	62
32	Isoquinoline Alkaloids and their Binding with DNA: Calorimetry and Thermal Analysis Applications. <i>Mini-Reviews in Medicinal Chemistry</i> , 2010, 10, 1235-1247.	1.1	62
33	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.	2.0	60
34	Biophysical Characterization of the Strong Stabilization of the RNA Triplex poly(U)â€™poly(A)*poly(U) by 9-O-(1%-amino) Alkyl Ether Berberine Analogs. <i>PLoS ONE</i> , 2012, 7, e37939.	1.1	59
35	Molecular aspects on the specific interaction of cytotoxic plant alkaloid palmatine to poly(A). <i>International Journal of Biological Macromolecules</i> , 2006, 39, 210-221.	3.6	56
36	DNA binding of benzophenanthridine compounds sanguinarine versus ethidium: Comparative binding and thermodynamic profile of intercalation. <i>Journal of Chemical Thermodynamics</i> , 2009, 41, 764-774.	1.0	56

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37	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.	6.5	56
38	Binding of carmoisine, a food colorant, with hemoglobin: Spectroscopic and calorimetric studies. <i>Food Research International</i> , 2015, 72, 54-61.	2.9	55
39	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.	1.7	54
40	Binding of protoberberine alkaloid coralyne with double stranded poly(A): a biophysical study. <i>Molecular BioSystems</i> , 2008, 4, 341.	2.9	53
41	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.	1.7	53
42	Design and application of Au decorated ZnO/TiO ₂ as a stable photocatalyst for wide spectral coverage. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 31622-31633.	1.3	50
43	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.	2.4	49
44	Protonated forms of poly[d(G-C)] and poly(dG).poly(dC) and Their interaction with berberine. <i>Bioorganic and Medicinal Chemistry</i> , 2003, 11, 4861-4870.	1.4	48
45	Spectroscopic and calorimetric studies on the binding of the phototoxic and cytotoxic plant alkaloid sanguinarine with double helical poly(A). <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008, 194, 111-121.	2.0	48
46	Sequence-Selective Binding of Phenazinium Dyes Phenosafranin and Safranin O to Guanine-Cytosine Deoxyribopolynucleotides: Spectroscopic and Thermodynamic Studies. <i>Journal of Physical Chemistry B</i> , 2010, 114, 15278-15287.	1.2	48
47	Molecular recognition of poly(A) targeting by protoberberinealkaloids: in vitro biophysical studies and biological perspectives. <i>Molecular BioSystems</i> , 2010, 6, 81-88.	2.9	48
48	Thermodynamics of the interaction of the food additive tartrazine with serum albumins: A microcalorimetric investigation. <i>Food Chemistry</i> , 2015, 175, 137-142.	4.2	48
49	Binding of the Biogenic Polyamines to Deoxyribonucleic Acids of Varying Base Composition: Base Specificity and the Associated Energetics of the Interaction. <i>PLoS ONE</i> , 2013, 8, e70510.	1.1	48
50	RNA specific molecules: Cytotoxic plant alkaloid palmatine binds strongly to poly(A). <i>Bioorganic and Medicinal Chemistry Letters</i> , 2006, 16, 2364-2368.	1.0	47
51	Influence of DNA Structures on the Conversion of Sanguinarine Alkanolamine Form to Iminium Form. <i>Journal of Biomolecular Structure and Dynamics</i> , 2002, 20, 455-464.	2.0	46
52	Molecular Aspects of Small Molecules-Poly(A) Interaction: An Approach to RNA Based Drug Design. <i>Current Medicinal Chemistry</i> , 2009, 16, 965-987.	1.2	46
53	Protonated structures of naturally occurring deoxyribonucleic acids and their interaction with berberine. <i>Bioorganic and Medicinal Chemistry</i> , 2005, 13, 4851-4863.	1.4	45
54	Enhanced DNA Binding of 9- <i>N</i> -Amino Alkyl Ether Analogs from the Plant Alkaloid Berberine. <i>DNA and Cell Biology</i> , 2011, 30, 123-133.	0.9	45

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55	Targeting RNA by Small Molecules: Comparative Structural and Thermodynamic Aspects of Aristololactam- ¹² -D-glucoside and Daunomycin Binding to tRNA ^{phe} . PLoS ONE, 2011, 6, e23186.	1.1	45
56	Study on the thermodynamics of the binding of iminium and alkanolamine forms of the anticancer agent sanguinarine to human serum albumin. Journal of Chemical Thermodynamics, 2012, 47, 90-99.	1.0	44
57	Binding of plant alkaloids berberine and palmatine to serum albumins: a thermodynamic investigation. Molecular Biology Reports, 2013, 40, 553-566.	1.0	44
58	RNA targeting by DNA binding drugs: Structural, conformational and energetic aspects of the binding of quinacrine and DAPI to A-form and HL-form of poly(rC)-poly(rG). Biochimica Et Biophysica Acta - General Subjects, 2007, 1770, 1636-1650.	1.1	42
59	Egg-shell derived carbon dots for base pair selective DNA binding and recognition. Physical Chemistry Chemical Physics, 2018, 20, 20476-20488.	1.3	41
60	DNA-Binding Cytotoxic Alkaloids: Comparative Study of the Energetics of Binding of Berberine, Palmatine, and Coralyne. DNA and Cell Biology, 2008, 27, 675-685.	0.9	40
61	Targeting the heme proteins hemoglobin and myoglobin by janus green blue and study of the dye-protein association by spectroscopy and calorimetry. RSC Advances, 2014, 4, 42706-42715.	1.7	40
62	Biophysical studies on curcumin-deoxyribonucleic acid interaction: Spectroscopic and calorimetric approach. International Journal of Biological Macromolecules, 2013, 62, 257-264.	3.6	39
63	Binding of the anticancer alkaloid sanguinarine to double stranded RNAs: Insights into the structural and energetics aspects. Molecular BioSystems, 2010, 6, 1265.	2.9	38
64	Binding of monovalent alkali metal ions with negatively charged phospholipid membranes. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 706-714.	1.4	38
65	Small molecule-RNA interaction: Spectroscopic and calorimetric studies on the binding by the cytotoxic protoberberine alkaloid coralyne to single stranded polyribonucleotides. Biochimica Et Biophysica Acta - General Subjects, 2009, 1790, 829-839.	1.1	37
66	Binding of 9-O-(β -amino) alkyl ether analogues of the plant alkaloid berberine to poly(A): insights into self-structure induction. MedChemComm, 2011, 2, 631.	3.5	37
67	Probing the binding of two sugar bearing anticancer agents aristololactam- ¹² -d-glucoside and daunomycin to double stranded RNA polynucleotides: a combined spectroscopic and calorimetric study. Molecular BioSystems, 2012, 8, 1958.	2.9	37
68	Comparative Study of Toluidine Blue O and Methylene Blue Binding to Lysozyme and Their Inhibitory Effects on Protein Aggregation. ACS Omega, 2018, 3, 2588-2601.	1.6	37
69	Interaction of the dietary pigment curcumin with hemoglobin: energetics of the complexation. Food and Function, 2014, 5, 1949-1955.	2.1	36
70	Binding studies of aristololactam- ¹² -glucoside and daunomycin to human serum albumin. RSC Advances, 2014, 4, 33082-33090.	1.7	36
71	Sanguinarine, a promising anticancer therapeutic: photochemical and nucleic acid binding properties. RSC Advances, 2014, 4, 56518-56531.	1.7	35
72	Probing the interaction of spermine and 1-naphthyl acetyl spermine with DNA polynucleotides: a comparative biophysical and thermodynamic investigation. Molecular BioSystems, 2014, 10, 1172-1183.	2.9	35

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73	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.	2.4	35
74	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.	1.2	34
75	Biophysical aspects and biological implications of the interaction of benzophenanthridine alkaloids with DNA. <i>Biophysical Reviews</i> , 2009, 1, 119-129.	1.5	33
76	Binding of the 9-O-N-aryl/arylalkyl Amino Carbonyl Methyl Substituted Berberine Analogs to tRNA ^{phe} . <i>PLoS ONE</i> , 2013, 8, e58279.	1.1	33
77	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.	1.0	32
78	Spectroscopic Characterization of the Interaction of Phenosafranin and Safranin O with Double Stranded, Heat Denatured and Single Stranded Calf Thymus DNA. <i>Journal of Fluorescence</i> , 2011, 21, 247-255.	1.3	31
79	Binding of the phenothiazinium dye methylene blue with single stranded polyriboadenylic acid. <i>Dyes and Pigments</i> , 2012, 92, 1376-1383.	2.0	31
80	Base pair specificity and energetics of binding of the phenazinium molecules phenosafranin and safranin-O to deoxyribonucleic acids: a comparative study. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 12771.	1.3	30
81	Binding of the anticancer alkaloid sanguinarine with tRNA ^{phe} : spectroscopic and calorimetric studies. <i>Journal of Biomolecular Structure and Dynamics</i> , 2012, 30, 223-234.	2.0	30
82	Drug-DNA binding thermodynamics: A comparative study of aristololactam- β -D-glucoside and daunomycin. <i>Journal of Chemical Thermodynamics</i> , 2012, 54, 421-428.	1.0	30
83	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.	1.0	30
84	Phenazinium dyes methylene violet 3RAX and indoine blue bind to DNA by intercalation: Evidence from structural and thermodynamic studies. <i>Dyes and Pigments</i> , 2013, 96, 81-91.	2.0	30
85	Binding of 2,7-Diaminomitosenone to DNA: Model for the Recognition of DNA by activated mitomycin C. <i>Biochemistry</i> , 1995, 34, 2662-2671.	1.2	29
86	Protoberberine Alkaloids: Physicochemical and Nucleic Acid Binding Properties. <i>Topics in Heterocyclic Chemistry</i> , 2007, , 155-209.	0.2	29
87	Interaction of aristololactam- β -D-glucoside and daunomycin with poly(A): Spectroscopic and calorimetric studies. <i>Biophysical Chemistry</i> , 2011, 155, 10-19.	1.5	29
88	Energetics of the binding of phototoxic and cytotoxic plant alkaloid sanguinarine to DNA: Isothermal titration calorimetric studies. <i>Journal of Molecular Structure</i> , 2008, 889, 54-63.	1.8	28
89	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.	1.7	28
90	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.	1.0	27

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91	Thermodynamics of the DNA binding of biogenic polyamines: Calorimetric and spectroscopic investigations. <i>Journal of Chemical Thermodynamics</i> , 2013, 57, 445-453.	1.0	27
92	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.	3.5	27
93	Interaction of Small Molecules with Double-Stranded RNA: Spectroscopic, Viscometric, and Calorimetric Study of Hoechst and Proflavine Binding to PolyCG Structures. <i>DNA and Cell Biology</i> , 2009, 28, 209-219.	0.9	26
94	Calorimetric and thermal analysis studies on the binding of phenothiazinium dye thionine with DNA polynucleotides. <i>Journal of Chemical Thermodynamics</i> , 2011, 43, 1036-1043.	1.0	26
95	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.	1.0	26
96	Thermodynamic characterization of proflavineâ€™DNA binding through microcalorimetric studies. <i>Journal of Chemical Thermodynamics</i> , 2015, 87, 1-7.	1.0	26
97	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.	1.7	26
98	Sanguinarine and Its Role in Chronic Diseases. <i>Advances in Experimental Medicine and Biology</i> , 2016, 928, 155-172.	0.8	26
99	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.	2.0	26
100	Toxic interaction of thionine to deoxyribonucleic acids: Elucidation of the sequence specificity of binding with polynucleotides. <i>Journal of Hazardous Materials</i> , 2010, 184, 620-626.	6.5	25
101	9-O-N-aryl/arylalkyl amino carbonyl methyl substituted berberine analogues induce self-structure in polyadenylic acid. <i>RSC Advances</i> , 2012, 2, 7714.	1.7	25
102	Thermodynamics of the binding of cytotoxic protoberberine molecule coralyne to deoxyribonucleic acids. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2008, 1780, 298-306.	1.1	24
103	Rhodamine based turn-on chemosensor for Fe ³⁺ in aqueous medium and interactions of its Fe ³⁺ complex with DNA. <i>New Journal of Chemistry</i> , 2018, 42, 3435-3443.	1.4	24
104	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.	1.7	23
105	Fluorescent ZnOâ€™Au Nanocomposite as a Probe for Elucidating Specificity in DNA Interaction. <i>ACS Omega</i> , 2018, 3, 7494-7507.	1.6	23
106	Interaction of 9-O-(1%-amino) alkyl ether berberine analogs with poly(dT)â€™poly(dA)*poly(dT) triplex and poly(dA)â€™poly(dT) duplex: a comparative study. <i>Molecular Biology Reports</i> , 2013, 40, 5439-5450.	1.0	22
107	Exploring the interaction of phenothiazinium dyes methylene blue, new methylene blue, azure A and azure B with tRNA ^{Phe} : spectroscopic, thermodynamic, voltammetric and molecular modeling approach. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 6636-6653.	1.3	22
108	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.	3.6	22

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109	Adaptable sensor for employing fluorometric detection of methanol molecules: theoretical aspects and DNA binding studies. <i>New Journal of Chemistry</i> , 2019, 43, 8982-8992.	1.4	22
110	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.	1.7	21
111	Single sensors for multiple analytes employing fluorometric differentiation for Cr ³⁺ and Al ³⁺ in semi-aqueous medium with bio-activity and theoretical aspects. <i>Analytical Methods</i> , 2018, 10, 4063-4072.	1.3	21
112	Thionine Interaction to DNA: Comparative Spectroscopic Studies on Double Stranded Versus Single Stranded DNA. <i>Journal of Fluorescence</i> , 2012, 22, 71-80.	1.3	20
113	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.	1.2	20
114	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.	1.0	20
115	Pyridine Derivative of the Natural Alkaloid Berberine as Human Telomeric G ₄ -DNA Binder: A Solution and Solid-State Study. <i>ACS Medicinal Chemistry Letters</i> , 2020, 11, 645-650.	1.3	20
116	Naphthalenediimide-Linked Bisbenzimidazole Derivatives as Telomeric G-Quadruplex-Stabilizing Ligands with Improved Anticancer Activity. <i>ACS Omega</i> , 2017, 2, 966-980.	1.6	19
117	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 & Interfaces</i> , 2017, 9, 644-657.	4.0	19
118	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.	2.0	19
119	Protoberberine Alkaloids Berberine, Palmatine, and Coralyne Binding to Poly(dT) ₃ -(Poly(dA) ₃)-Poly(dT) ₃ Triplex: Comparative Structural Aspects and Energetics Profiles of the Interaction. <i>Chemistry and Biodiversity</i> , 2011, 8, 1512-1528.	1.0	18
120	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.	2.0	18
121	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.	1.7	17
122	Synthetic, structural, electrochemical and DNA-binding aspects of a novel oximate bridged copper(II) dimer. <i>Polyhedron</i> , 2016, 110, 227-234.	1.0	17
123	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.	1.1	17
124	Nucleic acids binding strategies of small molecules: Lessons from alkaloids. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 1995-2016.	1.1	17
125	Adaptable DNA-Interactive Probe Proficient at Selective Turn-On Sensing for Al ³⁺ : Insight from the Crystal Structure, Photophysical Studies, and Molecular Logic Gate. <i>ACS Omega</i> , 2020, 5, 18411-18423.	1.6	17
126	Identification of a sulfoquinovosyldiacylglyceride from <i>Azadirachta indica</i> and studies on its cytotoxic activity and DNA binding properties. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 6699-6702.	1.0	16

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127	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.	1.7	16
128	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.	1.1	16
129	Calorimetric investigation on the interaction of proflavine with human telomeric G-quadruplex DNA. <i>Journal of Chemical Thermodynamics</i> , 2016, 98, 208-213.	1.0	16
130	Interaction of Isoquinoline Alkaloids with Polymorphic DNA Structures. <i>Chemistry and Biodiversity</i> , 2009, 6, 1323-1342.	1.0	15
131	Targeting ribonucleic acids by toxic small molecules: Structural perturbation and energetics of interaction of phenothiazinium dyes thionine and toluidine blue O to tRNA ^{phe} . <i>Journal of Hazardous Materials</i> , 2013, 263, 735-745.	6.5	15
132	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.	1.2	15
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