

Rafael Prado-Gotor

List of Publications by Year in descending order

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80
papers

1,511
citations

331259

21
h-index

360668

35
g-index

83
all docs

83
docs citations

83
times ranked

1953
citing authors

#	ARTICLE	IF	CITATIONS
1	Rational design of a CD4 mimic that inhibits HIV-1 entry and exposes cryptic neutralization epitopes. <i>Nature Biotechnology</i> , 2003, 21, 71-76.	9.4	182
2	In vitro antiplasmodial activity of extracts of <i>Alchornea cordifolia</i> and identification of an active constituent: ellagic acid. <i>Journal of Ethnopharmacology</i> , 2002, 81, 399-401.	2.0	99
3	Covalent and Non-Covalent DNA-Gold Nanoparticle Interactions: New Avenues of Research. <i>ChemPhysChem</i> , 2017, 18, 17-33.	1.0	94
4	Thermodynamic and structural study of phenanthroline derivative ruthenium complex/DNA interactions: Probing partial intercalation and binding properties. <i>Journal of Inorganic Biochemistry</i> , 2012, 106, 1-9.	1.5	81
5	A kinetic study of the interaction of DNA with gold nanoparticles: mechanistic aspects of the interaction. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 1479-1489.	1.3	67
6	Nonfunctionalized Gold Nanoparticles: Synthetic Routes and Synthesis Condition Dependence. <i>Chemistry - A European Journal</i> , 2015, 21, 9596-9609.	1.7	48
7	Studies on medicinal plants of Ivory Coast: Investigation of <i>Sida acuta</i> for in vitro antiplasmodial activities and identification of an active constituent. <i>Phytomedicine</i> , 2004, 11, 338-341.	2.3	43
8	Chitosan as a capping agent: Insights on the stabilization of gold nanoparticles. <i>Carbohydrate Polymers</i> , 2019, 207, 806-814.	5.1	37
9	Native and modified chitosan-based hydrogels as green heterogeneous organocatalysts for imine-mediated Knoevenagel condensation. <i>Applied Catalysis A: General</i> , 2016, 517, 176-186.	2.2	35
10	The Fluorophore 4,6-Diamidino-2-phenylindole (DAPI) Induces DNA Folding in Long Double-Stranded DNA. <i>Chemistry - an Asian Journal</i> , 2012, 7, 1803-1810.	1.7	33
11	Solvent Effects on the Kinetics of the Interaction of 1-Pyrenecarboxaldehyde with Calf Thymus DNA. <i>Journal of Physical Chemistry B</i> , 2010, 114, 4686-4691.	1.2	32
12	Design of highly stabilized nanocomposite inks based on biodegradable polymer-matrix and gold nanoparticles for Inkjet Printing. <i>Scientific Reports</i> , 2019, 9, 16097.	1.6	32
13	Understanding and improving aggregated gold nanoparticle/dsDNA interactions by molecular spectroscopy and deconvolution methods. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 16113-16123.	1.3	28
14	Micellar Effects upon the Reaction between Acetonitrile Pentacyanoferrate(II) and Bis(ethylenediamine)(2-pyrazinecarboxylato)cobalt(III). <i>Langmuir</i> , 1998, 14, 1539-1543.	1.6	27
15	Effect of DNA on the rate of electron transfer reactions between non-intercalated reactants: kinetic study of the reactions $[\text{Ru}(\text{NH}_3)_5\text{pz}]^{2+} + [\text{Co}(\text{C}_2\text{O}_4)_3]^{3-}$ and $[\text{Ru}(\text{NH}_3)_5\text{py}]^{2+} + [\text{Co}(\text{NH}_3)_4\text{pzCO}_2]^{2+}$ in aqueous solutions in the presence of DNA. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 4412-4417.	1.3	26
16	Electrochemiluminescence of the $[\text{Ru}(\text{bpy})_3]^{2+}$ Complex: The Coreactant Effect of PAMAM Dendrimers in an Aqueous Medium. <i>Inorganic Chemistry</i> , 2012, 51, 10825-10831.	1.9	26
17	Use of gold nanoparticles as crosslink agent to form chitosan nanocapsules: Study of the direct interaction in aqueous solutions. <i>Journal of Inorganic Biochemistry</i> , 2014, 135, 77-85.	1.5	24
18	DNA conformational changes induced by cationic gemini surfactants: the key to switching DNA compact structures into elongated forms. <i>RSC Advances</i> , 2015, 5, 29433-29446.	1.7	24

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19	Electron Transfer Reactions in Micellar Systems. <i>Progress in Reaction Kinetics and Mechanism</i> , 2000, 25, 371-407.	1.1	23
20	Electron transfer reactions in micellar systems: Separation of the true (unimolecular) electron transfer rate constant in its components. <i>Chemical Physics</i> , 2001, 263, 139-148.	0.9	23
21	Thermodynamic and structural study of pyrene-1-carboxaldehyde/DNA interactions by molecular spectroscopy: Probing intercalation and binding properties. <i>Chemical Physics</i> , 2010, 373, 186-192.	0.9	23
22	Synthesis, structure, magnetic and electrochemical properties of an oxydiacetate iron(II) complex. <i>Inorganica Chimica Acta</i> , 2004, 357, 4215-4219.	1.2	20
23	On the Equivalence of the Pseudophase Related Models and the Brønsted Approach in the Interpretation of Reactivity under Restricted Geometry Conditions. <i>Progress in Reaction Kinetics and Mechanism</i> , 2004, 29, 289-310.	1.1	20
24	Electron transfer reactions in solvent mixtures: the excess component of solvent reorganization free energy. <i>Coordination Chemistry Reviews</i> , 2000, 204, 173-198.	9.5	19
25	Comparative Study of Micellar and DNA Effects on the Reaction $[\text{Ru}(\text{NH}_3)_5\text{py}]^{2+} + \text{S}_2\text{O}_8^{2-}$. <i>Langmuir</i> , 2003, 19, 3185-3189.	1.6	17
26	Electronically tunable anion- π interactions in pyrylium complexes: experimental and theoretical studies. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 18442.	1.3	17
27	Ethanol effect on gold nanoparticle aggregation state and its implication in the interaction mechanism with DNA. <i>Journal of Colloid and Interface Science</i> , 2018, 529, 65-76.	5.0	17
28	Quantification of nucleobases/gold nanoparticles interactions: energetics of the interactions through apparent binding constants determination. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 22121-22128.	1.3	16
29	Fluorescent imino and secondary amino chitosans as potential sensing biomaterials. <i>Carbohydrate Polymers</i> , 2015, 123, 288-296.	5.1	15
30	Influence of the Micellar Electric Field on Electron-Transfer Processes (II): A Study of the $\text{Ru}(\text{NH}_3)_5\text{pz}^{2+} + \text{Co}(\text{C}_2\text{O}_4)_3^{3-}$ Reaction in SDS Micellar Solution Containing NaCl. <i>Langmuir</i> , 2000, 16, 7986-7990.	1.6	14
31	Micellar effects on a ligand substitution reaction: Kinetics of the formation of $[\text{Fe}(\text{CN})_5(\frac{1}{4}\text{-pz})\text{Ru}(\text{NH}_3)_5]^{+}$, from $[\text{Fe}(\text{CN})_5\text{H}_2\text{O}]^{3+}$ and $[\text{Ru}(\text{NH}_3)_5\text{pz}]^{2+}$, in the presence of anionic micelles. <i>International Journal of Chemical Kinetics</i> , 2004, 36, 627-633.	1.0	14
32	Method for the Evaluation of the Reorganization Energy of Electron Transfer Reactions Produced under Restricted Geometry Conditions. <i>Journal of Physical Chemistry B</i> , 2005, 109, 1703-1707.	1.2	14
33	DNA Strand Elongation Induced by Small Gold Nanoparticles at High Ethanol Content. <i>Journal of Physical Chemistry C</i> , 2014, 118, 4416-4428.	1.5	14
34	Effects of SB1.5G and SB4.5G dendrimers on the rate of the electron transfer reaction between $[\text{Ru}(\text{NH}_3)_5\text{pz}]^{2+}$ and $[\text{Co}(\text{C}_2\text{O}_4)_3]^{3-}$. <i>Chemical Physics Letters</i> , 2004, 398, 82-86.	1.2	13
35	Improving the understanding of DNA- π -propanediyl-1,3-bis(dodecyldimethylammonium) dibromide interaction using thermodynamic, structural and kinetic approaches. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 20064.	1.3	13
36	Interaction of gold nanoparticles mediated by captopril and S-nitrosocaptopril: the effect of manganese ions in mild acid medium. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 644-654.	1.3	13

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37	Exploring Factors for the Design of Nanoparticles as Drug Delivery Vectors. <i>ChemPhysChem</i> , 2018, 19, 2810-2828.	1.0	13
38	Salt and Solvent Effects on the Kinetics of the Oxidation of the Excited State of the [Ru(bpy) ₃] ²⁺ Complex by S ₂ O ₈ ²⁻ . <i>Journal of Physical Chemistry A</i> , 2006, 110, 4196-4201.	1.1	12
39	A colorimetric study of the interaction of cationic and anionic surfactants with anionic gold nanoparticles. <i>Colloid and Polymer Science</i> , 2017, 295, 2141-2149.	1.0	12
40	Influence of the Charge and Concentration of Coreactants on the Apparent Binding Constant of the Reactant to Micelles. <i>Langmuir</i> , 2003, 19, 5991-5995.	1.6	11
41	DNA interactions with small solutes: change in the character of the binding of [Ru(NH ₃) ₅ pz] ²⁺ to DNA as a consequence of changes in the solvent. <i>Chemical Physics</i> , 2004, 297, 163-169.	0.9	11
42	Electrolyte effects on the intervalence transition within discrete binuclear cyano-bridged complexes. An estimation of activation free energy from static, optical and electrochemical data. <i>Inorganica Chimica Acta</i> , 2006, 359, 149-158.	1.2	11
43	Quantification of salts and cosolvents' DNA interactions in terms of free energies: A study using the pyren-1-carboxyaldehyde as fluorescent probe. <i>Chemical Physics</i> , 2008, 352, 306-310.	0.9	11
44	Synthesis of hyperpolarizable biomaterials at molecular level based on pyridinium' chitosan complexes. <i>RSC Advances</i> , 2015, 5, 74274-74283.	1.7	11
45	DNA effects upon the reaction between acetonitrile pentacyanoferrate (II) and ruthenium pentammine pyrazine: Kinetic and thermodynamic evidence of the interaction of DNA with anionic species. <i>Chemical Physics</i> , 2005, 314, 101-107.	0.9	10
46	Salt and Solvent Effects on the Kinetics and Thermodynamics of the Inclusion of the Ruthenium Complex [Ru(NH ₃) ₅ (4,4'-bpy)] ²⁺ in β ² -Cyclodextrin. <i>Journal of Physical Chemistry B</i> , 2006, 110, 12959-12963.	1.2	10
47	Decorating a single giant DNA with gold nanoparticles. <i>RSC Advances</i> , 2018, 8, 26571-26579.	1.7	10
48	Understanding gold nanoparticles interactions with chitosan: Crosslinking agents as novel strategy for direct covalent immobilization of biomolecules on metallic surfaces. <i>Journal of Molecular Liquids</i> , 2020, 302, 112381.	2.3	10
49	Biocompatible DNA/5-Fluorouracil-Gemini Surfactant-Functionalized Gold Nanoparticles as Promising Vectors in Lung Cancer Therapy. <i>Pharmaceutics</i> , 2021, 13, 423.	2.0	10
50	Kinetic Study of the Fe(bpy) ₂ ·3S ₂ O ₈ ²⁻ Reaction in Solvent Mixtures. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1997, 101, 1452-1460.	0.9	9
51	Solvent effects on the oxidation (electron transfer) reaction of [Fe(CN) ₆] ⁴⁻ by [Co(NH ₃) ₅ pz] ³⁺ . <i>Chemical Physics</i> , 2004, 298, 317-325.	0.9	9
52	A study of the electron-transfer reaction between Fe(CN) ₂ (bpy) ₂ and S ₂ O ₈ ²⁻ in solvent mixtures: the translational component of solvent reorganization. <i>New Journal of Chemistry</i> , 1998, 22, 39-44.	1.4	8
53	'Abnormal' Salt and Solvent Effects on Anion/Cation Electron-Transfer Reactions: An Interpretation Based on Marcus' Hush Treatment. <i>Journal of Physical Chemistry B</i> , 2005, 109, 15087-15092.	1.2	8
54	Reversible cationic gemini surfactant-induced aggregation of anionic gold nanoparticles for sensing biomolecules. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 610, 125893.	2.3	8

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73	Restricted Geometry Conditions Promoted by AlOOH Nanoparticles: Variable Strength and Character of AlOOH-Cluster/Charged Ligand Interactions As a Consequence of Changes in the Solvent. <i>Journal of Physical Chemistry C</i> , 2008, 112, 9240-9246.	1.5	2
74	Direct effect of tetrahedral alcohol species on the SPB of gold colloids: a deconvolution study. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	0.8	2
75	A study of the non-electrostatic interaction micelle/charged ligand: A comparison of the results obtained by two different methods. <i>Chemical Physics Letters</i> , 2006, 417, 509-514.	1.2	1
76	Free energy of binding of cationic metal complexes to AuNPs through electron-transfer processes. <i>Soft Matter</i> , 2014, 10, 8482-8488.	1.2	1
77	Study of the base-catalyzed nitrito-nitro isomerization reaction ($[(NH_3)_5Co-ONO]^{2+}$)	1.0	0
78	Cyclodextrins effects in the substitution reaction of 4,4'-bpy for the aquo ligand in aquopentacyanoferrate (II): An estimation of the binding constants of the reactant and the transition state to cyclodextrins. <i>Chemical Physics</i> , 2006, 320, 181-187.	0.9	0
79	Binding Study of the $[Ru(NH_3)_3]^{2+}$ Complex to Bile Anion Aggregates through Kinetic Measurements. <i>International Journal of Chemical Kinetics</i> , 2013, 45, 780-786.	1.0	0
80	Encased Gold Nanoparticle Synthesis as a Probe for Oleuropein Self-Assembled Structure Formation. <i>Materials</i> , 2021, 14, 50.	1.3	0