

Rafael Prado-Gotor

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77
papers

1,270
citations

20
h-index

32
g-index

83
ext. papers

1,384
ext. citations

4.3
avg, IF

4.35
L-index

#	Paper	IF	Citations
77	Rational design of a CD4 mimic that inhibits HIV-1 entry and exposes cryptic neutralization epitopes. <i>Nature Biotechnology</i> , 2003 , 21, 71-6	44.5	166
76	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	5	81
75	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	4.2	72
74	Covalent and Non-Covalent DNA-Gold-Nanoparticle Interactions: New Avenues of Research. <i>ChemPhysChem</i> , 2017 , 18, 17-33	3.2	64
73	A kinetic study of the interaction of DNA with gold nanoparticles: mechanistic aspects of the interaction. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 1479-89	3.6	58
72	Nonfunctionalized Gold Nanoparticles: Synthetic Routes and Synthesis Condition Dependence. <i>Chemistry - A European Journal</i> , 2015 , 21, 9596-609	4.8	40
71	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, 338-41	6.5	35
70	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	5.1	31
69	The fluorophore 4',6'-diamidino-2-phenylindole (DAPI) induces DNA folding in long double-stranded DNA. <i>Chemistry - an Asian Journal</i> , 2012 , 7, 1803-10	4.5	28
68	Solvent effects on the kinetics of the interaction of 1-pyrenecarboxaldehyde with calf thymus DNA. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 4686-91	3.4	28
67	Electrochemiluminescence of the [Ru(bpy) ₃] ²⁺ complex: the coreactant effect of PAMAM dendrimers in an aqueous medium. <i>Inorganic Chemistry</i> , 2012 , 51, 10825-31	5.1	26
66	Effect of DNA on the rate of electron transfer reactions between non-intercalated reactants: kinetic study of the reactions [Ru(NH ₃) ₅ pz] ²⁺ [Co(C ₂ O ₄) ₃] ³⁻ and [Ru(NH ₃) ₅ py] ²⁺ [Co(NH ₃) ₄ pzCO ₂] ²⁺ in aqueous solutions in the presence of DNA. <i>Physical Chemistry Chemical Physics</i> , 2001 , 3, 4412-4417	3.6	25
65	Design of highly stabilized nanocomposite inks based on biodegradable polymer-matrix and gold nanoparticles for Inkjet Printing. <i>Scientific Reports</i> , 2019 , 9, 16097	4.9	24
64	Micellar Effects upon the Reaction between Acetonitrile Pentacyanoferrate(II) and Bis(ethylenediamine)(2-pyrazinecarboxylato)cobalt(III). <i>Langmuir</i> , 1998 , 14, 1539-1543	4	24
63	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	3.7	22
62	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	2.3	22
61	Chitosan as a capping agent: Insights on the stabilization of gold nanoparticles. <i>Carbohydrate Polymers</i> , 2019 , 207, 806-814	10.3	22

60	Understanding and improving aggregated gold nanoparticle/dsDNA interactions by molecular spectroscopy and deconvolution methods. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 16113-16123	3.6	21
59	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	2.3	21
58	Electron Transfer Reactions in Micellar Systems. <i>Progress in Reaction Kinetics and Mechanism</i> , 2000 , 25, 371-407	0.5	21
57	Synthesis, structure, magnetic and electrochemical properties of an oxydiacetate iron(II) complex. <i>Inorganica Chimica Acta</i> , 2004 , 357, 4215-4219	2.7	20
56	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	0.5	20
55	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	4.2	19
54	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	4	17
53	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	3.6	15
52	Electron transfer reactions in solvent mixtures: the excess component of solvent reorganization free energy. <i>Coordination Chemistry Reviews</i> , 2000 , 204, 173-198	23.2	15
51	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, 1703-7	3.4	14
50	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	4	14
49	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	9.3	13
48	Fluorescent imino and secondary amino chitosans as potential sensing biomaterials. <i>Carbohydrate Polymers</i> , 2015 , 123, 288-96	10.3	13
47	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	2.5	13
46	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, 644-54	3.6	12
45	Electronically tunable anion-π interactions in pyrylium complexes: experimental and theoretical studies. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 18442-53	3.6	12
44	Improving the understanding of DNA-propanediyl-1,3-bis(dodecyldimethylammonium) dibromide interaction using thermodynamic, structural and kinetic approaches. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 20064-74	3.6	12
43	Salt and solvent effects on the kinetics of the oxidation of the excited state of the $[\text{Ru}(\text{bpy})_3]^{2+}$ complex by $\text{S}_2\text{O}_8^{2-}$. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 4196-201	2.8	12

42	DNA Strand Elongation Induced by Small Gold Nanoparticles at High Ethanol Content. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 4416-4428	3.8	11
41	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	2.4	11
40	Quantification of salts and cosolventsDNA interactions in terms of free energies: A study using the pyren-1-carboxyaldehyde as fluorescent probe. <i>Chemical Physics</i> , 2008 , 352, 306-310	2.3	11
39	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	2.7	11
38	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	4	11
37	Salt and solvent effects on the kinetics and thermodynamics of the inclusion of the ruthenium complex [Ru(NH ₃) ₅ (4,4Rbpy)] ²⁺ in beta-cyclodextrin. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 12959-634	3.4	10
36	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	2.3	10
35	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	2.3	10
34	Kinetic Study of the Fe(bpy) ₂ +3 +S ₂ O ₂ 8 Reaction in Solvent Mixtures. <i>Zeitschrift Fur Elektrochemie Und Elektrochemie</i> , 1997 , 101, 1452-1460		9
33	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	2.3	9
32	Synthesis of hyperpolarizable biomaterials at molecular level based on pyridinium-chitosan complexes. <i>RSC Advances</i> , 2015 , 5, 74274-74283	3.7	7
31	Decorating a single giant DNA with gold nanoparticles.. <i>RSC Advances</i> , 2018 , 8, 26571-26579	3.7	7
30	Exploring Factors for the Design of Nanoparticles as Drug Delivery Vectors. <i>ChemPhysChem</i> , 2018 , 19, 2810-2828	3.2	7
29	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	6	7
28	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	3.6	6
27	"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, 15087-92	3.4	6
26	Polymerization-induced enhancement of binding and binding-induced polymerization. <i>Chemical Physics Letters</i> , 2004 , 384, 266-270	2.5	6
25	What controls the unusual melting profiles of small AuNPs/DNA complexes. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 11019-11032	3.6	5

24	CIELab chromaticity evolution to measure the binding free energy of non-colored biomolecules to gold nanoparticles. <i>RSC Advances</i> , 2015 , 5, 85039-85045	3.7	5
23	Strength and character of peptide/anion interactions. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 19676-80	3.4	5
22	Method for the evaluation of the reorganization energy of electron transfer reactions in water-methanol mixtures. <i>Chemical Physics Letters</i> , 2005 , 407, 342-346	2.5	5
21	Factors that control the gold nanoparticles aggregation induced by adenine molecules: New insights through a combined experimental and theoretical study. <i>Journal of Molecular Liquids</i> , 2020 , 310, 113136	6	4
20	Noncovalent interactions of tiopronin-protected gold nanoparticles with DNA: two methods to quantify free energy of binding. <i>Scientific World Journal, The</i> , 2014 , 2014, 143645	2.2	4
19	Two-state model based on electron-transfer reactivity changes to quantify the noncovalent interaction between $\text{Co}(\text{NH}_3)_5\text{Cl}_2^+$ and 18-crown-6 ether: the effect of second-sphere coordination on electron-transfer processes. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 2813-9	2.8	4
18	Colorimetric, Naked-Eye Detection of Lysozyme in Human Urine with Gold Nanoparticles. <i>Nanomaterials</i> , 2021 , 11,	5.4	4
17	Understanding AuNP interaction with low-generation PAMAM dendrimers: a CIELab and deconvolution study. <i>Journal of Nanoparticle Research</i> , 2017 , 19, 1	2.3	3
16	Kinetic approach for the study of noncovalent interaction between $[\text{Ru}(\text{NH}_3)_5\text{pz}]^{2+}$ and gold nanoparticles. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 9769-74	2.8	3
15	Non-covalent interactions between . <i>Chemical Physics Letters</i> , 2007 , 434, 210-213	2.5	3
14	Solvent and salt effects on the kinetics of the reaction between $[\text{Ru}(\text{NH}_3)_5\text{pz}]^{2+}$ and $[\text{Fe}(\text{CN})_5\text{H}_2\text{O}]^{3-}$ <i>International Journal of Chemical Kinetics</i> , 2003 , 35, 367-373	1.4	3
13	Theoretical study on the interactions between ibrutinib and gold nanoparticles for being used as drug delivery in the chronic lymphocytic leukemia. <i>Journal of Molecular Liquids</i> , 2020 , 316, 113878	6	3
12	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	3.8	2
11	Micellar effects on a ligand substitution reaction: Kinetics of the formation of $[\text{Fe}(\text{CN})_5(\text{pz})\text{Ru}(\text{NH}_3)_5]^-$ 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	1.4	2
10	Asymmetric salt effects on anion/cation reactions: A comparative study of the $[\text{Fe}(\text{CN})_6]^{4-}$, $[\text{Co}(\text{NH}_3)_5\text{pz}]^{3+}$ and $[\text{Ru}(\text{NH}_3)_5\text{pz}]^{2+} + [\text{Co}(\text{C}_2\text{O}_4)_3]^{3-}$ reactions. <i>International Journal of Chemical Kinetics</i> , 2005 , 37, 81-89	1.4	2
9	Biocompatible DNA/5-Fluorouracil-Gemini Surfactant-Functionalized Gold Nanoparticles as Promising Vectors in Lung Cancer Therapy. <i>Pharmaceutics</i> , 2021 , 13,	6.4	2
8	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	5.1	2
7	Free energy of binding of cationic metal complexes to AuNPs through electron-transfer processes. <i>Soft Matter</i> , 2014 , 10, 8482-8	3.6	1

6	Direct effect of tetrahedral alcohol species on the SPB of gold colloids: a deconvolution study. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1	2.3	1
5	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	2.5	1
4	Salt effects on reactivity for the formation and dissociation of bis-(ethane-1,2-diamine)cobalt(III)-[pyrazinecarboxylato-pentacyanoferrate(II)]. <i>Transition Metal Chemistry</i> , 2002 , 27, 127-133	2.1	1
3	Binding Study of the [Ru(NH ₃) ₅ pz] ²⁺ Complex to Bile Anion Aggregates through Kinetic Measurements. <i>International Journal of Chemical Kinetics</i> , 2013 , 45, 780-786	1.4	
2	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	2.3	
1	Study of the base-catalyzed nitrito↔nitro isomerization reaction ([Ru(NH ₃) ₅ ONO] ²⁺ ↔ [Ru(NH ₃) ₅ NO ₂] ²⁺) in mixed solvents. <i>International Journal of Chemical Kinetics</i> , 2004 , 36, 410-415	1.4	