GÃ¡bor Peintler

List of Publications by Year
in descending order

43 papers	797 citations	567281 15 h-index	526287 27 g-index
43 all docs	43 docs citations	43 times ranked	670 citing authors

#	Article	IF	Citations
1	Systematic design of chemical oscillators. 60. Kinetics and mechanism of the reaction between chlorite ion and hypochlorous acid. The Journal of Physical Chemistry, 1990, 94, 2954-2958.	2.9	119
2	Extracting Experimental Information from Large Matrixes. 1. A New Algorithm for the Application of Matrix Rank Analysis. Journal of Physical Chemistry A, 1997, 101, 8013-8020.	2.5	72
3	Kinetics and Mechanism of the Decomposition of Chlorous Acid. Journal of Physical Chemistry A, 2003, 107, 6966-6973.	2.5	56
4	Great Structural Variety of Complexes in Copper(II)â^'Oligoglycine Systems:Â Microspeciation and Coordination Modes as Studied by the Two-Dimensional Simulation of Electron Paramagnetic Resonance Spectra. Journal of the American Chemical Society, 2003, 125, 5227-5235.	13.7	44
5	Mn(II)â€"amino acid complexes intercalated in CaAl-layered double hydroxide â€" Well-characterized, highly efficient, recyclable oxidation catalysts. Journal of Catalysis, 2016, 335, 125-134.	6.2	42
6	Autocatalysis and Self-Inhibition:Â Coupled Kinetic Phenomena in the Chloriteâ^'Tetrathionate Reaction. Journal of the American Chemical Society, 2004, 126, 6246-6247.	13.7	38
7	Effect of Chloride Ion on the Kinetics and Mechanism of the Reaction between Chlorite Ion and Hypochlorous Acid. Inorganic Chemistry, 2008, 47, 7914-7920.	4.0	33
8	Clarifying the Equilibrium Speciation of Periodate Ions in Aqueous Medium. Inorganic Chemistry, 2017, 56, 11417-11425.	4.0	33
9	Multinuclear Complex Formation between Ca(II) and Gluconate Ions in Hyperalkaline Solutions. Environmental Science & Technology, 2014, 48, 6604-6611.	10.0	32
10	Effect of magnetic fields on a propagating reaction front. Nature, 1990, 347, 749-751.	27.8	30
11	Electron spin resonance study of copper(II) complexes of X-glycine and glycyl-X type dipeptides, and related tripeptides. Variation of co-ordination modes with ligand excess and pH in fluid and frozen aqueous solutions. Journal of the Chemical Society Dalton Transactions, 1989, , 1925-1932.	1.1	26
12	Chemical speciation in concentrated alkaline aluminate solutions in sodium, potassium and caesium media. Interpretation of the unusual variations of the observed hydroxide activity. Dalton Transactions, 2006, , 1858.	3.3	25
13	Improved calibration and use of stopped-flow instruments. Physical Chemistry Chemical Physics, 2000, 2, 2575-2586.	2.8	20
14	MRA combined spectroelectrochemical studies on the redox stability of PPy/DS films. Journal of Electroanalytical Chemistry, 1999, 462, 1-11.	3.8	17
15	Inherent Pitfalls in the Simplified Evaluation of Kinetic Curves. Journal of Physical Chemistry A, 2007, 111, 8104-8109.	2.5	16
16	Multinuclear complex formation in aqueous solutions of Ca(ii) and heptagluconate ions. Dalton Transactions, 2013, 42, 8460.	3.3	15
17	Speciation and structure of tin(<scp>ii</scp>) in hyper-alkaline aqueous solution. Dalton Transactions, 2014, 43, 17971-17979.	3.3	15
18	Formation of mono- and binuclear neodymium(<scp>iii</scp>)â€"gluconate complexes in aqueous solutions in the pH range of 2â€"8. Dalton Transactions, 2017, 46, 6049-6058.	3.3	14

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19	Extracting Experimental Information from Large Matrices. 2. Model-Free Resolution of Absorbance Matrices:â€‰ M3. Journal of Physical Chemistry A, 2002, 106, 3899-3904.	2.5	12
20	Complexation of Al(iii) with gluconate in alkaline to hyperalkaline solutions: formation, stability and structure. Dalton Transactions, 2013, 42, 13470.	3.3	12
21	A Family of Magnetic Field Dependent Chemical Waves. Inorganic Chemistry, 1994, 33, 2077-2078.	4.0	11
22	Kinetic studies of dicopper complexes in catechol oxidase model reaction by using an approximationless evaluating method. Reaction Kinetics and Catalysis Letters, 2004, 81, 143-151.	0.6	11
23	Matrix rank analysis of spectral studies on the electropolymerisation and discharge process of conducting polypyrrole/dodecyl sulfate films. Electrochimica Acta, 2005, 50, 1529-1535.	5.2	11
24	Using low-frequency IR spectra for the unambiguous identification of metal ionâ€“ligand coordination sites in purpose-built complexes. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 122, 257-259.	3.9	10
25	An improved chemical model for the quantitative description of the front propagation in the tetrathionateâ€“chlorite reaction. Physical Chemistry Chemical Physics, 2010, 12, 2356.	2.8	8
26	Some aspects of the aqueous solution chemistry of the Na+/Ca2+/OHâˆ’/Cit3âˆ’ system: The structure of a new calcium citrate complex forming under hyperalkaline conditions. Journal of Molecular Structure, 2016, 1118, 110-116.	3.6	8
27	Magnesium(II) <scp>d</scp>-Gluconate Complexes Relevant to Radioactive Waste Disposals: Metal-Ion-Induced Ligand Deprotonation or Ligand-Promoted Metal-Ion Hydrolysis?. Inorganic Chemistry, 2019, 58, 6832-6844.	4.0	8
28	Temperature dependence of the acidâ€“base and Ca2+-complexation equilibria of d-gluconate in hyperalkaline aqueous solutions. Polyhedron, 2019, 158, 117-124.	2.2	7
29	Stability and structural aspects of complexes forming between aluminum(III) and D-heptagluconate in acidic to strongly alkaline media: An unexpected diversity. Journal of Molecular Liquids, 2020, 314, 113645.	4.9	7
30	Calcium <scp>l</scp>-tartrate complex formation in neutral and in hyperalkaline aqueous solutions. Dalton Transactions, 2016, 45, 17296-17303.	3.3	6
31	Configuration-dependent complex formation between Ca(II) and sugar carboxylate ligands in alkaline medium: Comparison of L-gulonate with D-gluconate and D-heptaguconate. Carbohydrate Research, 2018, 460, 34-40.	2.3	6
32	Calcium complexation and acidâ€“base properties of<scp>l</scp>-gulonate, a diastereomer of<scp>d</scp>-gluconate. Dalton Transactions, 2016, 45, 18281-18291.	3.3	5
33	The solubility of Ca(OH)2 in extremely concentrated NaOH solutions at 25Â°C. Open Chemistry, 2012, 10, 332-337.	1.9	4
34	Dynamic origin of the surface conduction response in adsorption-induced electrical processes. Chemical Physics Letters, 2014, 607, 1-4.	2.6	4
35	Calcium complexing behaviour of lactate in neutral to highly alkaline medium. Journal of Molecular Structure, 2019, 1180, 491-498.	3.6	4
36	Peculiar kinetics of the complex formation in the iron(III)â€“sulfate system. International Journal of Chemical Kinetics, 2008, 40, 114-124.	1.6	3

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37	The acidity and self-catalyzed lactonization of l-gulonic acid: Thermodynamic, kinetic and computational study. Carbohydrate Research, 2018, 467, 14-22.	2.3	3
38	Equilibria and Dynamics of Sodium Citrate Aqueous Solutions: The Hydration of Citrate and Formation of the Na3Cit0 Ion Aggregate. Journal of Physical Chemistry B, 2020, 124, 9604-9614.	2.6	3
39	Effect of electrophilic and nucleophilic substituents on the protonation microequilibria of tyrosine derivatives. International Journal of Peptide and Protein Research, 1992, 39, 207-210.	0.1	2
40	Formation of mono- and binuclear complexes of Nd3+ with d-gluconate ions in hyperalkaline solutions â€“ Composition, equilibria and structure. Journal of Molecular Liquids, 2022, 346, 117047.	4.9	2
41	Coordination motifs of binary neodymium(III) D-gluconate, D-galactonate and L-gulonate complexes and the transition from inner- to outer-sphere coordination in neutral to strongly alkaline medium. Journal of Molecular Structure, 2022, 1261, 132894.	3.6	2
42	The formation of Ca(II) enolato complexes with Î±- and Î²-ketoglutarate in strongly alkaline solutions. Polyhedron, 2018, 156, 89-97.	2.2	1
43	Exploring the boundaries of direct detection and characterization of labile isomers â€“ a case study of copper(ii)â€“dipeptide systems. Dalton Transactions, 2017, 46, 8157-8166.	3.3	0