

Marcel Maeder

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152 papers	6,776 citations	36 h-index	80 g-index
155 ext. papers	7,110 ext. citations	4.4 avg, IF	5.67 L-index

#	Paper	IF	Citations
152	Evolving factor analysis for the resolution of overlapping chromatographic peaks. <i>Analytical Chemistry</i> , 1987 , 59, 527-530	7.8	604
151	Calculation of equilibrium constants from multiwavelength spectroscopic data-I Mathematical considerations. <i>Talanta</i> , 1985 , 32, 95-101	6.2	466
150	Carbon dioxide postcombustion capture: a novel screening study of the carbon dioxide absorption performance of 76 amines. <i>Environmental Science & Technology</i> , 2009 , 43, 6427-33	10.3	415
149	Calculation of equilibrium constants from multiwavelength spectroscopic data-III Model-free analysis of spectrophotometric and ESR titrations. <i>Talanta</i> , 1985 , 32, 1133-9	6.2	388
148	Calculation of equilibrium constants from multiwavelength spectroscopic data-II: SPECFIT: two user-friendly programs in basic and standard FORTRAN 77. <i>Talanta</i> , 1985 , 32, 257-64	6.2	369
147	Nonlinear least-squares fitting of multivariate absorption data. <i>Analytical Chemistry</i> , 1990 , 62, 2220-2224	7.8	367
146	Combining hard- and soft-modelling to solve kinetic problems. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2000 , 54, 123-141	3.8	259
145	The resolution of overlapping chromatographic peaks by evolving factor analysis. <i>Analytica Chimica Acta</i> , 1986 , 181, 287-291	6.6	207
144	Evolving factor analysis, a new multivariate technique in chromatography. <i>Chemometrics and Intelligent Laboratory Systems</i> , 1988 , 3, 205-213	3.8	191
143	Comprehensive study of the hydration and dehydration reactions of carbon dioxide in aqueous solution. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 1734-40	2.8	171
142	Kinetics and mechanism of carbamate formation from CO ₂ (aq), carbonate species, and monoethanolamine in aqueous solution. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 5022-9	2.8	171
141	Simulation of Enthalpy and Capacity of CO ₂ Absorption by Aqueous Amine Systems. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 2002-2009	3.9	157
140	Spectroscopic imaging and chemometrics: a powerful combination for global and local sample analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2004 , 23, 70-79	14.6	152
139	Second order global analysis: the evaluation of series of spectrophotometric titrations for improved determination of equilibrium constants. <i>Analytica Chimica Acta</i> , 1997 , 353, 381-393	6.6	99
138	On rotational ambiguity in model-free analyses of multivariate data. <i>Journal of Chemometrics</i> , 2006 , 20, 302-310	1.6	98
137	A review of recent methods for the determination of ranges of feasible solutions resulting from soft modelling analyses of multivariate data. <i>Analytica Chimica Acta</i> , 2016 , 911, 1-13	6.6	95
136	Quantification of a known component in an unknown mixture. <i>Analytica Chimica Acta</i> , 1987 , 193, 287-293	3.6	92

135	Application of a combination of hard and soft modeling for equilibrium systems to the quantitative analysis of pH-modulated mixture samples. <i>Analytical Chemistry</i> , 2003 , 75, 641-7	7.8	84
134	Calculation and meaning of feasible band boundaries in multivariate curve resolution of a two-component system. <i>Analytical Chemistry</i> , 2009 , 81, 2115-22	7.8	82
133	Application of a novel resolution approach combining soft- and hard-modelling features to investigate temperature-dependent kinetic processes. <i>Analytica Chimica Acta</i> , 2001 , 442, 337-350	6.6	82
132	Comprehensive kinetic and thermodynamic study of the reactions of CO ₂ (aq) and HCO ₃ ⁻ with monoethanolamine (MEA) in aqueous solution. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 14340-9	2.8	81
131	Resolution of rotational ambiguity for three-component systems. <i>Analytical Chemistry</i> , 2011 , 83, 836-41	7.8	81
130	Use of local rank-based spatial information for resolution of spectroscopic images. <i>Journal of Chemometrics</i> , 2008 , 22, 291-298	1.6	74
129	Tutorial on the fitting of kinetics models to multivariate spectroscopic measurements with non-linear least-squares regression. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2006 , 81, 149-164	3.8	69
128	Toward the understanding of chemical absorption processes for post-combustion capture of carbon dioxide: electronic and steric considerations from the kinetics of reactions of CO ₂ (aq) with sterically hindered amines. <i>Environmental Science & Technology</i> , 2013 , 47, 1163-9	10.3	67
127	Kinetics of the reversible reaction of CO ₂ (aq) with ammonia in aqueous solution. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 6405-12	2.8	67
126	Protonation constants and thermodynamic properties of amines for post combustion capture of CO ₂ . <i>Journal of Chemical Thermodynamics</i> , 2012 , 51, 97-102	2.9	65
125	Investigations of primary and secondary amine carbamate stability by ¹ H NMR spectroscopy for post combustion capture of carbon dioxide. <i>Journal of Chemical Thermodynamics</i> , 2012 , 54, 183-191	2.9	62
124	Second-order globalisation for the determination of activation parameters in kinetics. <i>Analytica Chimica Acta</i> , 1994 , 298, 193-201	6.6	61
123	Toward rational design of amine solutions for PCC applications: the kinetics of the reaction of CO ₂ (aq) with cyclic and secondary amines in aqueous solution. <i>Environmental Science & Technology</i> , 2012 , 46, 7422-9	10.3	59
122	Resolving factor analysis. <i>Analytical Chemistry</i> , 2001 , 73, 1587-94	7.8	57
121	Analysis of reactions in aqueous solution at non-constant pH: no more buffers?. <i>Physical Chemistry Chemical Physics</i> , 2003 , 5, 2836	3.6	49
120	Reactions of CO ₂ with aqueous piperazine solutions: formation and decomposition of mono- and dicarbamic acids/carbamates of piperazine at 25.0 °C. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 806-13	2.8	47
119	Analysis of non-isothermal kinetic measurements. <i>Analytica Chimica Acta</i> , 1997 , 337, 73-81	6.6	42
118	A systematic investigation of carbamate stability constants by ¹ H NMR. <i>International Journal of Greenhouse Gas Control</i> , 2011 , 5, 396-400	4.2	41

117	General non-linear least-squares program for the numerical treatment of spectrophotometric data on a single-precision game computer. <i>Talanta</i> , 1980 , 27, 1037-46	6.2	41
116	Chemometric Tools for Image Analysis		36
115	A simple chemical model to represent CO ₂ -amine-H ₂ O vapour-liquid-equilibria. <i>International Journal of Greenhouse Gas Control</i> , 2013 , 17, 215-224	4.2	35
114	The reduction of rotational ambiguity in soft-modeling by introducing hard models. <i>Analytica Chimica Acta</i> , 2012 , 709, 32-40	6.6	35
113	Model-Based Analysis for Kinetic and Equilibrium Investigations. <i>Critical Reviews in Analytical Chemistry</i> , 2006 , 36, 199-209	5.2	35
112	Determination and visualization of rotational ambiguity in four-component systems. <i>Analytica Chimica Acta</i> , 2013 , 796, 20-6	6.6	34
111	Calibration-free estimates of batch process yields and detection of process upsets using in situ spectroscopic measurements and nonisothermal kinetic models: 4-(dimethylamino)pyridine-catalyzed esterification of butanol. <i>Analytical Chemistry</i> , 2004 , 76, 2575-82	7.8	31
110	Hard modelling of spectroscopic measurements. Applications in non-ideal industrial reaction systems. <i>Chemometrics and Intelligent Laboratory Systems</i> , 1999 , 46, 221-230	3.8	31
109	A calorimetric study of carbamate formation. <i>Journal of Chemical Thermodynamics</i> , 2011 , 43, 664-669	2.9	29
108	Evolving Factor Analysis. <i>Comments on Inorganic Chemistry</i> , 1987 , 6, 41-60	3.9	29
107	Copper(II) complexes with linear pentadentate chelators. <i>Inorganic Chemistry</i> , 1984 , 23, 3724-3730	5.1	29
106	METAL-DIRECTED MACROCYCLIZATION REACTIONS INVOLVING FORMALDEHYDE, AMINES AND MONO- OR BI-FUNCTIONAL METHYLENE COMPOUNDS. <i>Reviews in Inorganic Chemistry</i> , 1993 , 13, 199-232	2.4	27
105	Modeling of batch reactions with in situ spectroscopic measurements and calorimetry. <i>Journal of Chemometrics</i> , 2005 , 19, 329-340	1.6	25
104	Exhaustive evolving factor analysis (E-EFA). <i>Journal of Chemometrics</i> , 2001 , 15, 475-484	1.6	24
103	Macrocycle Formation Through Carbon Acid - Formaldehyde Condensation Reactions of Bis(propene-1,2-diamine)- and Bis(2-methylpropane-1,2-diamine)-copper(II) Ions. <i>Australian Journal of Chemistry</i> , 1997 , 50, 529	1.2	24
102	Catalysis of CO ₂ absorption in aqueous solution by inorganic oxoanions and their application to post combustion capture. <i>Environmental Science & Technology</i> , 2014 , 48, 4623-9	10.3	23
101	Kinetics of the reversible reaction of CO ₂ (aq) and HCO ₃ ⁻ with sarcosine salt in aqueous solution. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 10276-84	2.8	23
100	Analyses of three-way data from equilibrium and kinetic investigations. <i>Analytica Chimica Acta</i> , 2003 , 490, 99-108	6.6	22

99	Handling Different Spatial Resolutions in Image Fusion by Multivariate Curve Resolution-Alternating Least Squares for Incomplete Image Multisets. <i>Analytical Chemistry</i> , 2018 , 90, 6757-6765	7.8	21
98	Hard-modelled trilinear decomposition (HTD) for an enhanced kinetic multicomponent analysis. <i>Journal of Chemometrics</i> , 2002 , 16, 218-227	1.6	21
97	Rank annihilation correction for the amendment of instrumental inconsistencies. <i>Analytica Chimica Acta</i> , 2002 , 464, 249-259	6.6	21
96	Synthesis, characterization, and crystal structure of a tricadmium complex of 3,4-diamino-5-methyl-1,2,4-triazole. <i>Journal of Coordination Chemistry</i> , 2011 , 64, 105-114	1.6	20
95	Complexation kinetics of copper(II) and nickel(II) with macrocycles: identification of an outer-sphere chelate effect. <i>Inorganic Chemistry</i> , 2007 , 46, 4002-9	5.1	20
94	A new matching image preprocessing for image data fusion. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2017 , 164, 32-42	3.8	19
93	The effect of piperazine (PZ) on CO ₂ absorption kinetics into aqueous ammonia solutions at 25.0°C. <i>International Journal of Greenhouse Gas Control</i> , 2015 , 36, 135-143	4.2	19
92	Target transform fitting: a new method for the non-linear fitting of multivariate data with separable parameters. <i>Journal of Chemometrics</i> , 2001 , 15, 511-522	1.6	19
91	Computerized data acquisition and data reduction in spectrophotometric analysis of metal ion complexes. Part 1. General considerations and data acquisition. <i>TrAC - Trends in Analytical Chemistry</i> , 1988 , 7, 111-113	14.6	19
90	Absorption and MCD spectral studies of the decaammine(μ -dinitrogen-N,N')diosmium(5+) mixed-valence ion. <i>Journal of the American Chemical Society</i> , 1985 , 107, 2167-2171	16.4	19
89	Spectrophotometric data reduction by eigenvector analysis for equilibrium and kinetic studies and a new method of fitting exponentials. <i>Analytica Chimica Acta</i> , 1980 , 122, 303-313	6.6	19
88	Formation kinetics of pendant arm polyamine macrocycles with copper(II). <i>Dalton Transactions RSC</i> , 2001 , 2376-2382		17
87	"Swollen" Macrocycles: Palladium(II)-Directed Template Syntheses of Pendant-Arm 14-, 16-, and 18-Membered Macrocycles. <i>Inorganic Chemistry</i> , 1996 , 35, 4961-4966	5.1	17
86	Coordination of the "pendant-arm" macrocycle 6,13-diamino-6,13-dimethyl-1,4,8,11-tetraazacyclotetradecane to chromium(III). Crystal structure and physical properties of the hexacoordinated complex ion. <i>Inorganic Chemistry</i> , 1990 , 29, 3208-3213	5.1	17
85	Insights into the Chemical Mechanism for CO(aq) and H in Aqueous Diamine Solutions - An Experimental Stopped-Flow Kinetic and H/C NMR Study of Aqueous Solutions of N,N-Dimethylethylenediamine for Postcombustion CO Capture. <i>Environmental Science & Technology</i> , 2018 , 52, 916-926	10.3	17
84	A speciation study of sulfur(IV) in aqueous solution. <i>Dalton Transactions</i> , 2014 , 43, 2147-52	4.3	16
83	Energy-Minimized Structures and Calculated and Experimental Isomer distributions in the hexamine-cobalt(III) system [Co(L) ₂] ³⁺ with the chiral facially-coordinating triamine (L = butane-1,2,4-triamine). <i>Helvetica Chimica Acta</i> , 1989 , 72, 1029-1037	2	16
82	A new approach to the equilibrium study of iron(III) thiocyanates which accounts for the kinetic instability of the complexes particularly observable under high thiocyanate concentrations. <i>Inorganica Chimica Acta</i> , 2016 , 445, 155-159	2.7	16

81	Prediction of the overall enthalpy of CO ₂ absorption in aqueous amine systems from experimentally determined reaction enthalpies. <i>Energy Procedia</i> , 2011 , 4, 1542-1549	2.3	15
80	Macromonocycle formation from copper(II)- or nickel(II)-directed condensation of linear tetraamines and formaldehyde with various nitro-carbon acids. <i>Polyhedron</i> , 1990 , 9, 2227-2231	2.7	15
79	CO ₂ Absorption into Aqueous Solutions Containing 3-Piperidinemethanol: CO ₂ Mass Transfer, Stopped-Flow Kinetics, ¹ H/ ¹³ C NMR, and Vapor/Liquid Equilibrium Investigations. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 16715-16724	3.9	14
78	Equilibrium modeling of mixtures of methanol and water. <i>Applied Spectroscopy</i> , 2005 , 59, 329-34	3.1	14
77	Advances in the modelling and analysis of complex and industrial processes. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2006 , 82, 75-82	3.8	14
76	Investigation of metal ion additives on the suppression of ammonia loss and CO ₂ absorption kinetics of aqueous ammonia-based CO ₂ capture. <i>International Journal of Greenhouse Gas Control</i> , 2017 , 56, 165-172	4.2	13
75	An electrospray ionization mass spectrometry study of the nitroprusside/thiolate system. <i>Dalton Transactions RSC</i> , 2002 , 3649-3655		13
74	Amino acids/NH ₃ Mixtures for CO ₂ Capture: Effect of Neutralization Methods on CO ₂ Mass Transfer and NH ₃ Vapour Loss. <i>Energy Procedia</i> , 2014 , 63, 773-780	2.3	12
73	A Novel Process Concept for the Capture of CO ₂ and SO ₂ Using a Single Solvent and Column. <i>Energy Procedia</i> , 2014 , 63, 703-714	2.3	12
72	Molecular Oxygen, Superoxide, and Peroxide as Ligands in a CoN ₅ Complex. <i>Inorganic Chemistry</i> , 1994 , 33, 3135-3140	5.1	12
71	Handling of highly coeluted chromatographic peaks by multivariate curve resolution for a complex bioanalytical problem: Quantitation of selected corticosteroids and mycophenolic acid in human plasma. <i>Talanta</i> , 2018 , 187, 1-12	6.2	11
70	Protonation Constants and Thermodynamic Properties of Amino Acid Salts for CO ₂ Capture at High Temperatures. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 12848-12855	3.9	11
69	Effect of Sarcosinate on the Absorption Kinetics of CO ₂ into Aqueous Ammonia Solution. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 6382-6389	3.9	11
68	ATR-IR Spectroscopy for the Investigation of Solution Reaction Kinetics: Hydrolysis of Trimethyl Phosphate. <i>Applied Spectroscopy</i> , 1995 , 49, 1789-1792	3.1	11
67	New developments for the numerical analysis of spectrophotometric titrations. <i>Polyhedron</i> , 1999 , 18, 3227-3232	2.7	10
66	Computerized data acquisition and data reduction in spectrophotometric analysis Part 2: numerical analysis with and without an underlying chemical model. <i>TrAC - Trends in Analytical Chemistry</i> , 1988 , 7, 147-150	14.6	10
65	An SO ₂ tolerant process for CO ₂ capture. <i>International Journal of Greenhouse Gas Control</i> , 2014 , 31, 205-213	4.2	9
64	Metal-directed synthesis of a chiral acyclic pentaamine and pendant-arm macrocyclic hexaamine derived from an amino acid. <i>Inorganica Chimica Acta</i> , 2004 , 357, 557-570	2.7	9

63	A study of bovine and human carbonic anhydrases as a model enzyme system for CO ₂ hydration in post combustion capture. <i>International Journal of Greenhouse Gas Control</i> , 2015 , 37, 85-89	4.2	8
62	The Role of SO ₂ in the Chemistry of Amine-based CO ₂ Capture in PCC. <i>Energy Procedia</i> , 2013 , 37, 1262-1266		8
61	Metal-directed synthesis routes to a 16-membered tetraazamacrocycle with two pendant primary amine groups. <i>Inorganica Chimica Acta</i> , 2000 , 306, 1-5	2.7	8
60	Nickel(II) complexes of 15-membered tetraaza macrocycles with a primary amine or carboxylate pendant: structural characterization of a one-dimensional chain compound. <i>Inorganica Chimica Acta</i> , 1996 , 246, 65-71	2.7	8
59	The thermodynamic formation constants for iron(III) thiocyanate complexes at zero ionic strength. <i>Inorganica Chimica Acta</i> , 2017 , 466, 249-253	2.7	7
58	Catalysis of CO ₂ absorption in aqueous solution by vanadate and sulfate and their application to post combustion capture. <i>International Journal of Greenhouse Gas Control</i> , 2015 , 36, 60-65	4.2	7
57	Octahedral Complexes of a Mixed N,N,O-Donor Ligand N-trans-(2'-hydroxycyclohexyl)-2-aminomethylpyridine. <i>Australian Journal of Chemistry</i> , 2004 , 57, 483	1.2	7
56	Palladium(II) as a versatile template for the formation of tetraaza macrocycles via Mannich-type reactions. <i>Inorganica Chimica Acta</i> , 2005 , 358, 3227-3235	2.7	7
55	Excited state acidity of bifunctional compounds. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 3383-3389	3.6	7
54	Polyamine complexation II Stability constants for metal ion complexation of 5-(4?-amino-2?-azabutane)-5-methyl-3,7-diaza-nonane-1,9-diamine. <i>Polyhedron</i> , 1991 , 10, 409-413	2.7	7
53	A chemical equilibrium modelling strategy for tuning the apparent equilibrium constants of the chemical systems. <i>Analytica Chimica Acta</i> , 2019 , 1049, 29-37	6.6	7
52	Kinetic and Equilibrium Reactions of a New Heterocyclic Aqueous 4-Aminomethyltetrahydropyran (4-AMTHP) Absorbent for Post Combustion Carbon Dioxide (CO ₂) Capture Processes. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 9200-9206	8.3	6
51	Geometrical isomerism in octahedral complexes arising from the presence of a fused ring on a triaza macrocycle. <i>Dalton Transactions</i> , 2003 , 2188	4.3	6
50	Characterization of the Minor cis Isomer of a Dipendant Polyamino Acid Macrocycle as a Dimeric Nickel(II) Complex. <i>Australian Journal of Chemistry</i> , 2000 , 53, 517	1.2	6
49	Outer-sphere coordination of polycyanometallate anions with polyammonium macrocycles: A spectrophotometric study. <i>Inorganica Chimica Acta</i> , 1994 , 227, 71-77	2.7	6
48	Tutorial: the modelling of chemical processes. <i>Analytica Chimica Acta</i> , 2009 , 647, 31-9	6.6	5
47	Isomers of 1,4,8,11-Tetraazacyclotetradecane-6,13-dicarboxylate Characterized as Cobalt(III) Complexes. <i>Australian Journal of Chemistry</i> , 2003 , 56, 679	1.2	5
46	Multiset Data Analysis: Extended Multivariate Curve Resolution		5

45	Model-based analysis of coupled equilibrium-kinetic processes: indirect kinetic studies of thermodynamic parameters using the dynamic data. <i>Analyst, The</i> , 2015 , 140, 3121-35	5	4
44	Generalized indicator-based determination of solution pH. <i>Analytica Chimica Acta</i> , 2020 , 1109, 90-97	6.6	4
43	[1.1.1]Cryptand: directions for its use as a variable-pH kinetic molecular device. <i>New Journal of Chemistry</i> , 2014 , 38, 561-567	3.6	4
42	Complexation of Constrained Ligands Piperazine, N-substituted Piperazines, and Thiomorpholine. <i>Australian Journal of Chemistry</i> , 2009 , 62, 1196	1.2	4
41	Molecular interactions between amine and carbonate species in aqueous solution kinetics and thermodynamics. <i>Energy Procedia</i> , 2009 , 1, 995-1002	2.3	4
40	Complexation of the N,N',O-donor ligand N-trans-(2'-hydroxycyclohexyl)-2-aminomethylpyridine. <i>Journal of Coordination Chemistry</i> , 2011 , 64, 3637-3651	1.6	4
39	Hydrogenolysis of a pendant alcohol dithiadiazamacrocyclic. Crystal structure of the 6-amino-6-methyl-1, 11-dithia-4,8-diazacyclotetradecane hydrogenolysis product as a chlorocobalt(III) complex. <i>Inorganica Chimica Acta</i> , 1997 , 261, 197-200	2.7	4
38	Comparative stability constants for metal ions with tetraazamacrocycles of various ring sizes carrying a single amine or carboxylate pendant group. <i>Transition Metal Chemistry</i> , 2003 , 28, 460-463	2.1	4
37	Kinetics of Heavy Metal Ion Adsorption on to, and Proton Release from, Electrolytic Manganese Dioxide. <i>Adsorption Science and Technology</i> , 1998 , 16, 39-50	3.6	4
36	Simulation of Complex Chemical Kinetics. <i>Bioinorganic Reaction Mechanisms</i> , 2003 , 5, 39-46		4
35	Development and Evaluation of a Novel Method for Determining Absorbent Composition in Aqueous Ammonia-Based CO ₂ and SO ₃ and SO ₄ Loaded Capture Process Solutions via FT-IR Spectroscopy. <i>Energy & Fuels</i> , 2018 , 32, 8563-8570	4.1	4
34	The Henry Coefficient of CO ₂ in the MEA-CO ₂ -H ₂ O System. <i>Energy Procedia</i> , 2017 , 114, 1841-1847	2.3	3
33	Kinetic Absorption of CO ₂ into Blended Ammonia (NH ₃) Solutions with a New Cyclic Amine 4-Aminomethyltetrahydropyran (4-AMTHP). <i>Energy & Fuels</i> , 2019 , 33, 5377-5383	4.1	3
32	Quantum chemical computation-based strategy for alternating least squares initialization in multivariate curve resolution analysis of spectral-pH data. <i>Microchemical Journal</i> , 2018 , 140, 183-188	4.8	3
31	Chemometric Tools for Image Analysis 2014 , 57-110		3
30	Parametric Investigation of Chemical Equilibrium in Mixed Aqueous Amine Systems for CO ₂ Capture Processes: Impact of Amine Protonation and Reaction Enthalpies on CO ₂ Absorption Capacity, Cyclic Capacity, and Absorption Enthalpies. <i>Energy Procedia</i> , 2014 , 63, 1818-1826	2.3	3
29	Symmetrical diamides based on 2,6-bis(methoxycarbonyl)pyridine: Syntheses and metal ion binding studies. <i>Journal of Heterocyclic Chemistry</i> , 2009 , 46, 243-250	1.9	3
28	Outer-sphere complex formation and catalysis of adenosine 5'-triphosphate hydrolysis with polyammonium cations: kinetics employing an attenuated total reflectance infrared method. <i>Inorganica Chimica Acta</i> , 1997 , 254, 353-359	2.7	3

27	Aminoalcohols incorporating a piperazine ring: Synthesis, complexation of a hexadentate ligand and DNA cleavage capability of copper(II) complexes. <i>Inorganica Chimica Acta</i> , 2007 , 360, 2403-2410	2.7	3
26	Heterogeneous catalysts for the hydrogenation of amine/alkali hydroxide solvent captured CO ₂ to formate: A review 2021 , 11, 807-823		3
25	On the avoidance of crossing of singular values in the evolving factor analysis. <i>Journal of Chemometrics</i> , 2020 , 34, e3217	1.6	2
24	Enhanced target factor analysis. <i>Analytica Chimica Acta</i> , 2016 , 911, 35-41	6.6	2
23	Multivariate linear regression with missing values. <i>Analytica Chimica Acta</i> , 2013 , 796, 38-41	6.6	2
22	The determination of the Henry's Coefficient of reactive gases [An example of CO ₂ in aqueous solutions of monoethanolamine (MEA)]. <i>Chemical Engineering Science</i> , 2017 , 173, 474-482	4.4	2
21	Synthesis and metal(II) ion complexation of pyridine-2,6-diamides incorporating amino alcohols. <i>Journal of Coordination Chemistry</i> , 2010 , 63, 2400-2418	1.6	2
20	Cyclic polyamines via a molybdenum(0) templated Mannich-type reaction. <i>Transition Metal Chemistry</i> , 2007 , 32, 287-291	2.1	2
19	Synthesis of a Four-Strand N ₂ O ₂ -Donor Ligand and its Transition Metal Complexation Probed by Electrospray Ionisation Mass Spectrometry. <i>Transition Metal Chemistry</i> , 2004 , 29, 505-510	2.1	2
18	Abstracting reliable parameters from time-correlated single photon counting experiments. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2005 , 175, 221-225	4.7	2
17	[Metol] a stereo-rigid four-strand motif for alkali and alkaline earth metal ion coordination. <i>Inorganic Chemistry Communication</i> , 2000 , 3, 410-414	3.1	2
16	Isolation of and metal ion selection by geometric isomers of a pendant-arm macrotricyclic hexamine. <i>Polyhedron</i> , 1996 , 15, 3157-3162	2.7	2
15	PHOSPHATE ESTER HYDROLYSIS PROMOTED BY AN AMIDOPYRIDINE CARBOXYLATE COMPLEX. <i>Rasayan Journal of Chemistry</i> , 2018 , 11, 894-903	1.6	2
14	A Saturated Heterocycle Formed from Ethane-1,2-diamine, Formaldehyde and Nitroethane: Crystal Structure of 6-Methyl-6-nitro-1,4-bis(2'-nitropropan-1'-yl)-1,4-diazacycloheptane. <i>Australian Journal of Chemistry</i> , 1997 , 50, 241	1.2	2
13	Using chemical modeling for designing of optimal pH sensor based on analytical sensitivity enhancement. <i>Microchemical Journal</i> , 2021 , 168, 106450	4.8	2
12	Activity-based analysis of potentiometric pH titrations. <i>Analytica Chimica Acta</i> , 2019 , 1075, 49-56	6.6	1
11	Chemometrics and data fitting. <i>Journal of Chemometrics</i> , 2013 , 27, n/a-n/a	1.6	1
10	Principal components regression in practice. An evaluation of EMD battery activity from X-ray diffraction patterns. <i>TrAC - Trends in Analytical Chemistry</i> , 1990 , 9, 303-308	14.6	1

9	A perspective on modeling evolution. <i>Journal of Chemometrics</i> , 2020 , 34, e3205	1.6	1
8	Turning Routine Data into Systems Insight: Multivariate Analysis of Water Quality Dynamics in a Major Drinking Water Reservoir. <i>Environmental Modeling and Assessment</i> , 2020 , 25, 565-579	2	
7	Topics in chemometrics, TIC 2017, a personal report. <i>Journal of Chemometrics</i> , 2018 , 32, e3025	1.6	
6	Kinetics of the reversible reaction of CO ₂ (aq) with taurate in aqueous solution 2018 , 8, 672-685		
5	Conjoint Analysis of Kinetic and Equilibrium Data for Mechanistic Elucidation in Polynuclear Complexation Reactions, Exemplified by Metal(II) Helicate Complex Formation. <i>Australian Journal of Chemistry</i> , 2010 , 63, 141	1.2	
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