

# Ignacy Cukrowski

## List of Publications by Year in descending order

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101  
papers

1,549  
citations

304743

22  
h-index

377865

34  
g-index

102  
all docs

102  
docs citations

102  
times ranked

1376  
citing authors

#	ARTICLE	IF	CITATIONS
1	A unified molecular-wide and electron density based concept of chemical bonding. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2022, 12, .	14.6	6
2	A Molecular-Wide and Electron Density-Based Approach in Exploring Chemical Reactivity and Explicit Dimethyl Sulfoxide (DMSO) Solvent Molecule Effects in the Proline Catalyzed Aldol Reaction. Molecules, 2022, 27, 962.	3.8	2
3	The CH $\cdots$ HC interaction in biphenyl is a delocalized, molecular-wide and entirely non-classical interaction: Results from FALDI analysis. Journal of Computational Chemistry, 2021, 42, 706-718.	3.3	7
4	A REP-FAMSEC Method as a Tool in Explaining Reaction Mechanisms: A Nucleophilic Substitution of 2-Phenylquinoxaline as a DFT Case Study. Molecules, 2021, 26, 1570.	3.8	2
5	Characterization of bonding modes in metal complexes through electron density cross-sections. Journal of Computational Chemistry, 2020, 41, 2695-2706.	3.3	1
6	Molecular Orbitals Support Energy-Stabilizing $\sigma$ -Bonding Nature of Bader's Bond Paths. Journal of Physical Chemistry A, 2020, 124, 5523-5533.	2.5	2
7	Origin of Hydrocarbons Stability from a Computational Perspective: A Case Study of Ortho-Xylene Isomers. ChemPhysChem, 2020, 21, 494-502.	2.1	15
8	A reaction energy profile and fragment attributed molecular system energy change (FAMSEC)-based protocol designed to uncover reaction mechanisms: a case study of the proline-catalysed aldol reaction. Physical Chemistry Chemical Physics, 2019, 21, 16694-16705.	2.8	7
9	Quantifying individual (anti)bonding molecular orbitals' contributions to chemical bonding. Physical Chemistry Chemical Physics, 2019, 21, 20988-20998.	2.8	10
10	Reliability of HF/IQA, B3LYP/IQA, and MP2/IQA data in interpreting the nature and strength of interactions. Physical Chemistry Chemical Physics, 2019, 21, 10244-10260.	2.8	7
11	Exact and exclusive electron localization indices within QTAIM atomic basins. Journal of Computational Chemistry, 2018, 39, 1517-1530.	3.3	7
12	FALDI-based decomposition of an atomic interaction line leads to 3D representation of the multicenter nature of interactions. Journal of Computational Chemistry, 2018, 39, 973-985.	3.3	10
13	FALDI-based criterion for and the origin of an electron density bridge with an associated (3, -1) critical point on Bader's molecular graph. Journal of Computational Chemistry, 2018, 39, 2283-2299.	3.3	8
14	Toward deformation densities for intramolecular interactions without radical reference states using the fragment, atom, localized, delocalized, and interatomic (FALDI) charge density decomposition scheme. Journal of Computational Chemistry, 2017, 38, 981-997.	3.3	12
15	Synthesis, structure and DFT study of asymmetrical NHC complexes of cymantrene derivatives and their application in the dehydrogenative dimerization reaction of thiols. Journal of Organometallic Chemistry, 2017, 840, 11-22.	1.8	16
16	Solvent-directed Regioselective Benzoylation of Adenine: Characterization of N9-benzyladenine and N3-benzyladenine. Journal of Heterocyclic Chemistry, 2017, 54, 2946-2950.	2.6	3
17	Gold(I) Hydrides as Proton Acceptors in Dihydrogen Bond Formation. ChemPhysChem, 2017, 18, 2288-2294.	2.1	3
18	Reliability of interacting quantum atoms (IQA) data computed from post-HF densities: impact of the approximation used. Physical Chemistry Chemical Physics, 2017, 19, 16375-16386.	2.8	11

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19	Exploring fundamental differences between red- and blue-shifted intramolecular hydrogen bonds using FAMSEC, FALDI, IQA and QTAIM. <i>Structural Chemistry</i> , 2017, 28, 1429-1444.	2.0	13
20	CpNiBr(NHC) complexes as pre-catalysts in the chemoselective anaerobic oxidation of secondary aryl alcohols: Experimental and DFT studies. <i>Molecular Catalysis</i> , 2017, 432, 47-56.	2.0	9
21	On the origin of the relative stability of Zn <sup>II</sup> NTA and Zn <sup>II</sup> NTPA metal complexes. An insight from the IQA, IQF, and FARMs methods. <i>International Journal of Quantum Chemistry</i> , 2017, 117, e25321.	2.0	5
22	Application of Protocols Devised to Study Bi(III) Complex Formation by Voltammetry: The Bi(III)-Picolinic Acid System. <i>Journal of Physical Chemistry B</i> , 2016, 120, 12972-12980.	2.6	0
23	Measurements and Modeling To Determine the Reduction Potential of Uncomplexed Bi(III) in Nitrate Solutions for Application in Bi(III)-Ligand Equilibria Studies by Voltammetry. <i>Journal of Physical Chemistry B</i> , 2016, 120, 4268-4278.	2.6	5
24	On the Stability of <i>Cis</i> and <i>Trans</i> -2-Butene Isomers. An Insight Based on the FAMSEC, IQA, and ETS-NOCV Schemes. <i>Journal of Computational Chemistry</i> , 2016, 37, 2783-2798.	3.3	33
25	Competition reaction-based prediction of polyamines <sup>TM</sup> stepwise protonation constants: a case study involving 1,4,7,10-tetraazadecane (2,2,2-tet). <i>Theoretical Chemistry Accounts</i> , 2016, 135, 1.	1.4	0
26	Interacting quantum fragments rooted preorganized interacting fragments attributed relative molecular stability of the Be <sup>II</sup> complexes of nitrilotriacetic acid and nitrilotripropionic acid. <i>Journal of Computational Chemistry</i> , 2016, 37, 1373-1387.	3.3	11
27	A Novel Approach to Monitoring of the Diffusion Junction Potential in Speciation Studies by Polarography under very Acidic Conditions. Part II: The Quasi-Reversible Cu(II)-Picolinic Acid System. <i>Electroanalysis</i> , 2015, 27, 494-502.	2.9	3
28	IQA-embedded fragment attributed molecular system energy change in exploring intramolecular interactions. <i>Computational and Theoretical Chemistry</i> , 2015, 1066, 62-75.	2.5	26
29	Structural-topological preferences and protonation sequence of aliphatic polyamines: a theoretical case study of tetramine trien. <i>Journal of Molecular Modeling</i> , 2015, 21, 162.	1.8	5
30	Evaluating common QTAIM and NCI interpretations of the electron density concentration through IQA interaction energies and 1D cross-sections of the electron and deformation density distributions. <i>Computational and Theoretical Chemistry</i> , 2015, 1053, 60-76.	2.5	50
31	Physical Nature of Interactions in Zn <sup>II</sup> Complexes with 2,2'-Bipyridyl: Quantum Theory of Atoms in Molecules (QTAIM), Interacting Quantum Atoms (IQA), Noncovalent Interactions (NCI), and Extended Transition State Coupled with Natural Orbitals for Chemical Valence (ETS-NOCV) Comparative Studies. <i>Journal of Physical Chemistry A</i> , 2014, 118, 623-637.	2.5	81
32	Physico-chemical Modelling of Adlayer Phase Formation via Surface-limited Reactions of Copper in Relation to Sequential Electrodeposition of Multilayered Platinum on Crystalline Gold. <i>Electrochimica Acta</i> , 2014, 147, 432-441.	5.2	11
33	Solubility, Activity Coefficients, and Protonation Sequence of Risedronic Acid. <i>Journal of Chemical &amp; Engineering Data</i> , 2014, 59, 3728-3740.	1.9	14
34	Multilayered Nanoclusters of Platinum and Gold: Insights on Electrodeposition Pathways, Electrocatalysis, Surface and Bulk Compositional Properties. <i>Journal of the Electrochemical Society</i> , 2013, 160, H529-H546.	2.9	9
35	A Novel Approach to Monitoring of the Diffusion Junction Potential in Speciation Studies by Polarography Under very Acidic Conditions. Part I: The Reversible Cd(II)-Picolinic Acid System. <i>Electroanalysis</i> , 2013, 25, 2221-2230.	2.9	4
36	3,6-Diazaoctane-1,8-diaminium diiodide. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012, 68, o2387-o2387.	0.2	2

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37	2,2â€²-(Piperazine-1,4-diyl)diethanaminium bis(2-hydroxybenzoate). Acta Crystallographica Section E: Structure Reports Online, 2012, 68, o2388-o2388.	0.2	1
38	2,2â€²-(Piperazine-1,4-diyl)diethanaminium dibenzoate. Acta Crystallographica Section E: Structure Reports Online, 2012, 68, o2389-o2389.	0.2	0
39	A Density Functional Theory and Quantum Theory of Atoms-in-Molecules Analysis of the Stability of Ni(II) Complexes of Some Amino Alcohol Ligands. Journal of Physical Chemistry A, 2011, 115, 6629-6640.	2.5	8
40	QTAIM and ETS-NOCV Analyses of Intramolecular CHâ€¢-Âˆ-Âˆ-HC Interactions in Metal Complexes. Journal of Physical Chemistry A, 2011, 115, 12746-12757.	2.5	45
41	Protonation sequence of linear aliphatic polyamines from intramolecular atomic energies and charges. Computational and Theoretical Chemistry, 2011, 966, 213-219.	2.5	5
42	N,N-Dimethylethane-1,2-diaminium bis(3-hydroxybenzoate). Acta Crystallographica Section E: Structure Reports Online, 2011, 67, o2901-o2901.	0.2	0
43	Tris(dicyclohexylammonium) hydrogen [1-hydroxy-2-(1H-imidazol-1-yl)-1-phosphonatoethane]phosphonate ethanol monosolvate monohydrate. Acta Crystallographica Section E: Structure Reports Online, 2011, 67, o2980-o2980.	0.2	5
44	99mTc-labelled biguanide derivatives: chemical speciation modelling thereof and evaluation in vervets. Journal of Radioanalytical and Nuclear Chemistry, 2010, 283, 123-131.	1.5	2
45	Hydrogenâ€¢hydrogen bonding: A stabilizing interaction in strained chelating rings of metal complexes in aqueous phase. Chemical Physics Letters, 2010, 499, 66-69.	2.6	54
46	Synthesis of Platinum and Ruthenium Nanostructures on Au Films and Au Nanoparticles: Use of Mixed Sacrificial Metals in Surface-Limited Redox-Replacement Reactions in Electrochemical Atomic Layer Deposition. ECS Meeting Abstracts, 2010, , .	0.0	0
47	A Density Functional Theory- and Atoms in Molecules-based Study of NiNTA and NiNTPA Complexes toward Physical Properties Controlling their Stability. A New Method of Computing a Formation Constant. Inorganic Chemistry, 2010, 49, 6931-6941.	4.0	20
48	Density Functional Theory and Isodesmic Reaction Based Prediction of Four Stepwise Protonation Constants, as $\log K_{a1} K_{a2} K_{a3} K_{a4}$ , for Nitrilotriacetic Acid. The Importance of a Kind and Protonated Form of a Reference Molecule Used. Journal of Physical Chemistry A, 2010, 114, 1868-1878.	2.5	19
49	Electrodeposition of Multilayered Bimetallic Nanoclusters of Ruthenium and Platinum via Surface-Limited Redox~Replacement Reactions for Electrocatalytic Applications. Langmuir, 2010, 26, 570-580.	3.5	37
50	Automated Electrodeposition of Bimetallic Noble-Metal Nanoclusters via Redox-Replacement Reactions for Electrocatalysis. ECS Transactions, 2009, 19, 97-113.	0.5	2
51	The analysis of pH-dependent protonated conformers of 1-hydroxyethylidene-1,1-diphosphonic acid by means of FT-Raman spectroscopy, multivariate curve resolution and DFT modelling. Journal of Raman Spectroscopy, 2009, 40, 1935-1941.	2.5	7
52	Low-spin complexes of Ni <sup>2+</sup> with six NH <sub>3</sub> and H <sub>2</sub> O ligands: A DFTâ€¢RX3LYP study. Computational and Theoretical Chemistry, 2009, 902, 21-32.	1.5	9
53	DFT RX3LYP and RPBE studies on the structural, electronic, and vibrational properties of some amino-alcohol ligands. Computational and Theoretical Chemistry, 2009, 915, 20-32.	1.5	12
54	Density Functional Theory in Prediction of Four Stepwise Protonation Constants for Nitrilotripropanoic Acid (NTPA). Journal of Physical Chemistry A, 2009, 113, 3639-3647.	2.5	23

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55	Sc(III) porphyrins. The molecular structure of two Sc(III) porphyrins and a re-evaluation of the parameters for the molecular mechanics modelling of Sc(III) porphyrins. <i>Journal of Molecular Structure</i> , 2008, 872, 47-55.	3.6	7
56	DFT-UX3LYP Studies on the Coordination Chemistry of Ni <sup>2+</sup> . Part 1: Six Coordinate [Ni(NH <sub>3</sub> ) <sub>3</sub> ](H <sub>2</sub> O) <sub>6</sub> <sup>2+</sup> Complexes. <i>Journal of Physical Chemistry A</i> , 2008, 112, 10657-10666.	3.5	61
57	Electrochemical Performance of Coated Titanium Anodes in Concentrated Chromium VI Solutions. <i>ECS Transactions</i> , 2007, 6, 1-13.	0.5	2
58	Modeling and spectroscopic studies of bisphosphonate-bone interactions. The Raman, NMR and crystallographic investigations of Ca-HEDP complexes. <i>Bone</i> , 2007, 41, 668-678.	2.9	51
59	Influence of electronic and steric effects on stability constants and electrochemical reversibility of divalent ion complexes with glycine and sarcosine. <i>Analytica Chimica Acta</i> , 2007, 590, 203-216.	5.4	5
60	Interpretation of non-Nernstian slopes in graphic analysis of data collected in pH range close to deprotonation of a ligand Part I. A glass electrode potentiometric and polarographic study of Cd(TAPSO)(OH) <sub>y</sub> and Zn(TAPSO)(OH) <sub>y</sub> systems. <i>Talanta</i> , 2006, 68, 819-830.	5.5	4
61	Modelling the interaction of several bisphosphonates with hydroxyapatite using the generalised AMBER force field. <i>Journal of Molecular Structure</i> , 2006, 825, 134-142.	3.6	29
62	Using artificial neural networks to develop molecular mechanics parameters for the modelling of metalloporphyrins: Part IV. Five-, six-coordinate metalloporphyrins of Mn, Co, Ni and Cu. <i>Journal of Molecular Structure</i> , 2006, 783, 21-33.	3.6	9
63	Voltammetry as Virtual Potentiometric Sensor in Modelling of a Metal/Ligand System and Refinement of Stability Constants. Part 5. <i>Helvetica Chimica Acta</i> , 2006, 89, 2934-2952.	1.6	8
64	Complex Formation in the Region of Metal Hydrolysis and M(OH) <sub>2</sub> Precipitation. A Glass Electrode Potentiometric and Polarographic Study of Cd(AMPSO)(OH) <sub>y</sub> and Zn(AMPSO)(OH) <sub>y</sub> Systems. <i>Electroanalysis</i> , 2006, 18, 719-729.	2.9	8
65	Voltammetry as a virtual potentiometric sensor in modelling of a metal-ligand system and refinement of stability constants. Part 4. An electrochemical study of NiII complexes with methylene diphosphonic acid. <i>Journal of Inorganic Biochemistry</i> , 2005, 99, 2308-2321.	3.5	4
66	Using artificial neural networks to develop molecular mechanics parameters for the modelling of metalloporphyrins. III. Five coordinate Zn(II) porphyrins and the metalloprophyrins of the early 3d metals. <i>Journal of Molecular Structure</i> , 2005, 738, 67-78.	3.6	16
67	Graphic Data Analysis and Complex Formation Curves as Modelling and Optimization Tools in Potentiometric and Voltammetric Speciation Studies of a Pb(II)(TAPSO)(OH) <sub>y</sub> System. <i>Electroanalysis</i> , 2005, 17, 1291-1301.	2.9	3
68	Voltammetry as a Virtual Potentiometric Sensor in Modeling of a Metal-Ligand System and Refinement of Stability Constants. Part 1. Polarographic and Glass Electrode Potentiometric Study of a Dynamic Cd-Glycine System. <i>Electroanalysis</i> , 2004, 16, 612-626.	2.9	7
69	Voltammetry as a Virtual Potentiometric Sensor in Modelling of a Metal/Ligand System and Refinement of Stability Constants. Part 2. <i>Helvetica Chimica Acta</i> , 2004, 87, 2135-2158.	1.6	7
70	Challenges in modelling and optimisation of stability constants in the study of metal complexes with monoprotonated ligands. <i>Analytica Chimica Acta</i> , 2004, 518, 117-126.	5.4	8
71	Challenges in Modelling and Optimization of Stability Constants in the Study of Metal Complexes with Monoprotonated Ligands. Part II. <i>Helvetica Chimica Acta</i> , 2003, 86, 3288-3304.	1.6	10
72	Solution Equilibria. A Unified Mathematical Treatment of Experimental Polarographic and Potentiometric Data from Acid-Base and Ligand Titrations. A Polarographic and Ion Selective Electrode Study of CdII(N-(2-hydroxyethyl)iminodiacetic acid)OH System. <i>Electroanalysis</i> , 2003, 15, 1377-1388.	2.9	4

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73	Molecular mechanics parameters for the modelling of four-coordinate Zn(ii) porphyrins. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 5499-5506.	2.8	17
74	Molecular mechanics modelling of porphyrins. Using artificial neural networks to develop metal parameters for four-coordinate metalloporphyrins. Electronic supplementary information (ESI) available: Molecular mechanics parameters, comparisons between crystallographic and molecular mechanics geometries, error response surfaces, and crystal structures. See <a href="http://www.rsc.org/suppdata/cp/b2/b203360g/">http://www.rsc.org/suppdata/cp/b2/b203360g/</a> . <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 5878-5887.	2.8	19
75	Evaluation of Equilibria with Use of Artificial Neural Networks (ANN). II. ANN and Experimental Design as a Tool in Electrochemical Data Evaluation for Fully Dynamic (Labile) Metal Complexes. <i>Electroanalysis</i> , 2001, 13, 295-308.	2.9	12
76	Solution Equilibria. A Unified Mathematical Treatment of Potentiometric and Polarographic Data in a Metal-Ligand Equilibrium Study at a Fixed Ligand to Metal Ratio and Various pH Values. <i>Electroanalysis</i> , 2001, 13, 1242-1252.	2.9	7
77	Evaluation of Equilibria with a Use of Artificial Neural Networks (ANN): I. Artificial Neural Networks and Experimental Design as a Tool in Electrochemical Data Evaluation for Fully Inert Metal Complexes. <i>Electroanalysis</i> , 2000, 12, 1481-1492.	2.9	12
78	Co-ordination of weak field ligands by N-acetylmicroperoxidase-8 (NACMP8), a ferric haempeptide from cytochrome c, and the influence of the axial ligand on the reduction potential of complexes of NACMP8. <i>Dalton Transactions RSC</i> , 2000, , 1335-1342.	2.3	20
79	Experimental and calculated complex formation curves for mixed, dynamic and semi-dynamic, metal-ligand systems. <i>Journal of Electroanalytical Chemistry</i> , 1999, 460, 197-206.	3.8	15
80	Metal-ion speciation in blood plasma incorporating the bisphosphonate, 1-hydroxy-4-aminopropylidenediphosphonate (APD), in therapeutic radiopharmaceuticals. <i>Journal of Inorganic Biochemistry</i> , 1999, 73, 265-272.	3.5	27
81	A potentiometric and differential pulse polarographic study of CdII with 1-hydroxyethylenediphosphonic acid. <i>Analytica Chimica Acta</i> , 1999, 379, 217-226.	5.4	17
82	Polarographic Complex Formation Curves for Fully Inert Metal-Ligand System. <i>Electroanalysis</i> , 1999, 11, 606-613.	2.9	10
83	A differential pulse polarographic study of bismuth(III) complexes with macrocyclic ligands 1,4,7,10-tetraazacyclododecane and 1,4,7,10-tetrakis (2-hydroxypropyl)-1,4,7,10-tetraazacyclododecane. An out-of-cell determination of stability constants of polarographically active and inactive bismuth complexes at fixed ligand to metal ratio and various pH values. <i>Analytica Chimica Acta</i> , 1998, 372, 323-331.	5.4	6
84	Evaluation of a Peak Potential of an Uncomplexed Metal Ion in Speciation Study of Labile Metal-Ligand Systems by Polarography. Stability Constant Determination of CdII and PbII with Picolinic Acid at a Fixed LT:MT Ratio and Varied pH. <i>Electroanalysis</i> , 1998, 10, 877-885.	2.9	18
85	Protonation constant of monoaza-12-crown-4 ether and stability constants with selected metal ions in aqueous solution in the presence of an excess of sodium ion: a potentiometric and differential pulse polarographic study at fixed ligand to metal ratio and varied pH. <i>Talanta</i> , 1998, 47, 1175-1189.	5.5	9
86	Synthesis, stability and structure of the complex of bismuth(III) with the nitrogen-donor macrocycle 1,4,7,10-tetraazacyclododecane. The role of the lone pair on bismuth(III) and lead(II) in determining co-ordination geometry. <i>Journal of the Chemical Society Dalton Transactions</i> , 1997, , 901-908.	1.1	60
87	Modelling of Cadmium(II) Species Formed With N,N'-Bis(2-pyridylmethyl)-1,2-diaminoethane and Optimisation of Stability Constants by the Use of Polarographic Complex Formation Curves for Labile Metal-Ligand Systems. <i>Analyst</i> , The, 1997, 122, 827-833.	3.5	14
88	Experimental and calculated complex formation curves for a labile metal-ligand system a differential		

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91	The unusual protonation constants of cyclam. A potentiometric, crystallographic and molecular mechanics study. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1996, , 1925.	0.9	54
92	Formation constant calculation for non-labile complexes based on a labile part of the metal-ligand system. A differential pulse polarographic study at fixed ligand to metal ratio and varied pH: application to polarographically inactive complexes. <i>Analytica Chimica Acta</i> , 1996, 319, 39-48.	5.4	31
93	Study of protonation of 1,4,7-tris(2-hydroxyethyl)-1,4,7-triazacyclononane, and its complexes with metal ions, by crystallography, polarography, potentiometry, molecular mechanics and NMR. <i>Inorganica Chimica Acta</i> , 1996, 246, 159-169.	2.4	26
94	A polarographic method of speciation for labile metal-ligand systems based on mass-balance equations. A differential pulse polarographic study at fixed ligand to metal ratio and varied pH. <i>Analytica Chimica Acta</i> , 1996, 336, 23-36.	5.4	48
95	The effect of chelate ring size on metal ion size-based selectivity in polyamine ligands containing pyridyl and saturated nitrogen donor groups. <i>Analytica Chimica Acta</i> , 1995, 312, 307-321.	5.4	49
96	Pulse polarography study of the complexes of lead with azacrown [2,2,2]cryptand in the presence of an excess of competing sodium ion. <i>Electroanalysis</i> , 1995, 7, 763-769.	2.9	8
97	The neutral oxygen donor in complexes of lead and cadmium: A differential pulse polarographic, potentiometric and calorimetric study. <i>Polyhedron</i> , 1995, 14, 1661-1674.	2.2	24
98	Complexation of Bi(III) by nitrogen donor ligands. A polarographic study. <i>Polyhedron</i> , 1995, 14, 1699-1707.	2.2	24
99	Design of ligands containing the o-hydroxybenzyl group. Metal-complexing properties of N,N'-bis(2-hydroxybenzyl)diethylenetriamine-N,N'-triacetic acid. <i>Journal of the Chemical Society Dalton Transactions</i> , 1994, , 2679-2685.	1.1	6
100	The affinity of bismuth(III) for nitrogen-donor ligands. <i>Journal of the Chemical Society Dalton Transactions</i> , 1993, , 2895.	1.1	51
101	Studies of the process of catalytic hydrogen evolution on the epoxy-resin-impregnated graphite-based mercury film electrode. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1986, 213, 127-134.	0.1	3