



39. Ildikó Rapp-Kindner, Katalin Ósz, Gábor Lente
The ideal gas law: derivations and intellectual background
ChemTexts, 2025, **11:1**.
38. Virág Kiss, Ádám Kecskeméti, Bence Marcell Hülvely, Péter Tarczali Sarudi, Luca Judit Csépes-Ruzicska, Fruzsina Mercs, Ágnes Tóth, István Fábián, Katalin Ósz
Reductive dehalogenation and formation of sulfonated quinones in the aqueous reactions between various chloro-1,4-benzoquinones and sulfur(IV)
Journal of Sulfur Chemistry, 2023, **44**, 646-665.
37. Éva Józsa, Laura Barbara Jenei, Tamás Kégl, Katalin Ósz
Substituent effects on the activation parameters of the reaction between 1,4-benzoquinones and hydrogen peroxide: a combined experimental and theoretical study
Journal of Molecular Structure, 2022, **1261**, 132916.
36. Judit Michnyóczy, Virág Kiss, Katalin Ósz
A kinetic study of the photooxidation of water by aqueous cerium(IV) in sulfuric acid using a diode array spectrophotometer
Journal of Photochemistry and Photobiology A: Chemistry, 2021, **408**, 113110.
35. Gábor Lente, Katalin Ósz
Barometric formulas: various derivations and comparisons to environmentally relevant observations
ChemTexts, 2020, **6**, 13.
34. Éva Józsa, Virág Kiss, Katalin Ósz
Photochemical processes of 1,4-benzoquinones in aqueous medium
Journal of Photochemistry and Photobiology A: Chemistry, 2018, **360**, 166-173.
33. Virág Kiss, Katalin Ósz
Double Exponential Evaluation under Non-Pseudo-First-Order Conditions: a Mixed Second Order Process Followed by a First Order Reaction
International Journal of Chemical Kinetics, 2017, **49**, 602-610.
32. Virág Kiss, Gábor Lehoczki, Katalin Ósz
Mathematical description of pH-stat kinetic traces measured during photochemical quinone decomposition
Photochemical and Photobiological Sciences, 2017, **16**, 519-526.
31. Éva Józsa, Mihály Purgel, Marianna Bihari, Péter Pál Fehér, Gábor Sustyák, Balázs Várnagy, Virág Kiss, Eszter Ladó, Katalin Ósz
Kinetic studies of hydroxyquinone formation from water soluble benzoquinones
New Journal of Chemistry, 2014, **38**, 588-597.



30. Giuseppe Di Natale, Katalin Ósz, Csilla Kállay, Giuseppe Pappalardo, Daniele Sanna, Giuseppe Impellizzeri, Imre Sóvágó, Enrico Rizzarelli
Affinity, speciation, and molecular features of the copper(II) complexes with a prion tetraoctarepeat domain in aqueous solution: insights into old and new results
Chemistry – A European Journal, 2013, **19**, 3751-3761.
29. Tímea Lehóczki, Éva Józsa, Katalin Ósz
Ferroxalate actinometry with online spectrophotometric detection
Journal of Photochemistry and Photobiology A: Chemistry, 2013, **251**, 63-68.
28. Melinda Gombár, Éva Józsa, Mihály Braun, Katalin Ósz
Construction of a photochemical reactor combining a CCD spectrophotometer and a LED radiation source
Photochemical and Photobiological Sciences, 2012, **11**, 1592-1595.
27. Chiara A. Damante, Katalin Ósz, Zoltán Nagy, Giuseppe Grasso, Giuseppe Pappalardo, Enrico Rizzarelli, Imre Sóvágó
Zn²⁺'s Ability to Alter the Distribution of Cu²⁺ among the Available Binding Sites of A β (1-16)-Polyethyleneglycol-ylated Peptide: Implications in Alzheimer's Disease
Inorganic Chemistry, 2011, **50**, 5342-5350.
26. Éva Józsa, Katalin Ósz, Csilla Kállay, Imre Sóvágó, Paolo de Bona, Chiara A. Damante, Giuseppe Pappalardo, Enrico Rizzarelli
Nickel(II) and mixed metal complexes of amyloid- β N-terminus
Dalton Transactions, 2010, 7046-7053.
25. Beatriz González, Pablo Lorenzo-Luis, Manuel Serrano-Ruiz, Éva Papp, Marianna Fekete, Klára Csépké, Katalin Ósz, Ágnes Kathó, Ferenc Joó, Antonio Romerosa
Catalysis of redox isomerization of allylic alcohols by [RuCl(Cp)(mPTA)₂] (OSO₂CF₃)₂ and [RuCp(mPTA)₂(OH₂- κ O)]-(OSO₂CF₃)₃·(H₂O)(C₄H₁₀O)_{0.5}. Unusual influence of the pH and interaction of phosphate with catalyst on the reaction rate
Journal of Molecular Catalysis A: Chemical, 2010, **326**, 15-20.
24. Chiara A. Damante, Katalin Ósz, Zoltán Nagy, Giuseppe Pappalardo, Giulia Grasso, Giuseppe Impellizzeri, Enrico Rizzarelli, Imre Sóvágó
Metal loading capacity of A β N-terminus: A combined potentiometric and spectroscopic study of zinc(II) complexes with A β (1-16), its short or mutated peptide fragments and its polyethylene glycol-ylated analogue
Inorganic Chemistry, 2009, **48**, 10405-10415.
23. Giuseppe Di Natale, Katalin Ósz, Zoltán Nagy, Daniele Sanna, Giovanni Micera, Giuseppe Pappalardo, Imre Sóvágó, Enrico Rizzarelli
Interaction of copper(II) with the prion peptide fragment HuPrP(76-114) encompassing four histidyl residues within and outside the octarepeat domain
Inorganic Chemistry, 2009, **48**, 4239-4250.
22. Sarolta Timári, Csilla Kállay, Katalin Ósz, Imre Sóvágó, Katalin Várnagy
Transition metal complexes of short multihistidine peptides
Dalton Transactions, 2009, 1962-1971.



21. Katalin Ósz
A new, model-free calculation method to determine the coordination modes and distribution of copper(II) among the metal binding sites of multihistidine peptides using circular dichroism spectroscopy
Journal of Inorganic Biochemistry, 2008, **102**, 2184-2195.
20. Chiara A. Damante, Katalin Ósz, Zoltán Nagy, Giuseppe Pappalardo, Giulia Grasso, Giuseppe Impellizzeri, Enrico Rizzarelli, Imre Sóvágó
The Metal Loading Ability of β -Amyloid N-Terminus: A Combined Potentiometric and Spectroscopic Study of Copper(II) Complexes with β -Amyloid(1–16), Its Short or Mutated Peptide Fragments, and Its Polyethylene Glycol (PEG)-ylated Analogue
Inorganic Chemistry, 2008, **47**, 9669-9683.
19. Giuseppe Di Natale, Chiara A. Damante, Zoltán Nagy, Katalin Ósz, Giuseppe Pappalardo, Enrico Rizzarelli, Imre Sóvágó
Copper(II) binding to two novel histidine-containing model hexapeptides: Evidence for a metal ion driven turn conformation
Journal of Inorganic Biochemistry, 2008, **102**, 2012-2019.
18. Katalin Ósz, Zoltán Nagy, Giuseppe Pappalardo, Giuseppe Di Natale, Daniele Sanna, Giovanni Micera, Enrico Rizzarelli, Imre Sóvágó
Copper(II) interaction with prion peptide fragments encompassing histidine residues within and outside the octarepeat domain: Speciation, stability constants and binding details
Chemistry – A European Journal, 2007, **13**, 7129-7143.
17. Csilla Kállay, Katalin Ósz, Adrienn Dávid, Zita Valastyán, Gerasimos Malandrinos, Nick Hadjiliadis, Imre Sóvágó
Zinc(II) binding ability of tri-, tetra- and penta-peptides containing two or three histidyl residues
Dalton Transactions, 2007, 4040-4047.
16. Imre Sóvágó, Katalin Ósz
Metal ion selectivity of oligopeptides
Dalton Transactions, 2006, 3841-3854 (PERSPECTIVE).
15. Viktória Józai, Zoltán Nagy, Katalin Ósz, Daniele Sanna, Giuseppe Di Natale, Giulia Grasso, Giuseppe Impellizzeri, Diego La Mendola, Giuseppe Pappalardo, Enrico Rizzarelli, Imre Sóvágó
Transition metal complexes of terminally protected peptides containing histidyl residues
Journal of Inorganic Biochemistry, 2006, **100**, 1399-1409.
14. Olga Szilágyi, Katalin Ósz, Daniele Sanna, Helga Süli-Vargha, Imre Sóvágó, Giovanni Micera, Katalin Várnagy
Potentiometric and spectroscopic studies on the copper(II) and zinc(II) complexes of bis(imidazol-2-yl) derivatives of tripeptides
Polyhedron, 2006, **25**, 3173-3182.



13. Domenico Grasso, Giulia Grasso, Valeria Guantieri, Giuseppe Impellizzeri, Carmelo La Rosa, Danilo Milardi, Giovanni Micera, Katalin Ósz, Giuseppe Pappalardo, Enrico Rizzarelli, Daniele Sanna, Imre Sóvágó
Environmental effects on prion's helix II domain: Copper(II) and membrane interactions with PrP180-193 and its analogues.
Chemistry – A European Journal, 2006, **12**, 537-547.
12. Giuseppe Di Natale, Giulia Grasso, Giuseppe Impellizzeri, Diego La Mendola, Giovanni Micera, Nikolett Mihala, Zoltán Nagy, Katalin Ósz, Giuseppe Pappalardo, Viktória Rigó, Enrico Rizzarelli, Daniele Sanna, Imre Sóvágó
Copper(II) Interaction with Unstructured Prion Domain Outside the Octarepeat Region. Speciation, Stability and Binding Details of Copper(II) Complexes with PrP106-126 Peptides
Inorganic Chemistry, 2005, **44**, 7214-7225.
11. Imre Sóvágó, Katalin Ósz, Zoltán Nagy, Viktória Rigó, Daniele Sanna, Diego La Mendola, Giuseppe Di Natale, Giuseppe Pappalardo, Enrico Rizzarelli
Transition metal complexes of peptide fragments of prion proteins
Advances in Coordination, Bioinorganic and Inorganic Chemistry (Monograph Series of the International Conferences on Coordination Chemistry held periodically at Smolenice in Slovakia), 2005, 363-376.
10. Katalin Ósz, Gábor Lente, Csilla Kállay
New protonation microequilibrium treatment in the case of some amino acid and peptide derivatives containing bis(imidazolyl)methyl group
Journal of Physical Chemistry B, 2005, **109**, 1039-1047.
9. Katalin Ósz, Katalin Várnagy, Helga Süli-Vargha, Antal Csámpay, Daniele Sanna, Giovanni Micera, Imre Sóvágó
Acid-base properties and copper(II) complexes of dipeptides containing histidine and additional chelating bis(imidazol-2-yl) residues
Journal of Inorganic Biochemistry, 2004, **98**, 24-32.
8. Katalin Ósz, James H. Espenson
A Non-Radical Chain Mechanism for Oxygen Atom Transfer with a Thiorhenium(V) Catalyst
Inorganic Chemistry, 2003, **42**, 8122-8124.
7. Katalin Várnagy, Katalin Ósz, Csilla Kállay, Imre Sóvágó
The effect of side chain donor groups on the coordination ability of bis(imidazol-2-yl) ligands
Progress in Coordination and Bioinorganic Chemistry, 2003, **6**, 95-100.
6. Imre Sóvágó, Katalin Ósz, Katalin Várnagy
Copper(II) complexes of amino acids and peptides containing chelating bis(2-imidazolyl) residues
Bioinorganic Chemistry and Applications, 2003, **1**, 123-139.
5. Katalin Ósz, Katalin Várnagy, Helga Süli-Vargha, Daniele Sanna, Giovanni Micera, Imre Sóvágó
Transition metal complexes of bis(imidazol-2-yl) derivatives of dipeptides
Journal of the Chemical Society, Dalton Transactions, 2003, 2009-2016.



4. Katalin Ósz, Beáta Bóka, Katalin Várnagy, Imre Sóvágó, Tibor Kurtán, Sándor Antus
The application of circular dichroism spectroscopy for the determination of metal ion speciation and coordination modes of peptide complexes
Polyhedron, 2002, **21**, 2149-2159.
3. Katalin Ósz, Katalin Várnagy, Helga Süli-Vargha, Daniele Sanna, Giovanni Micera, Imre Sóvágó
Copper(II), nickel(II) and zinc(II) complexes of amino acids containing bis(imidazol-2-yl)methyl residues
Inorganica Chimica Acta, 2002, **339**, 373-382.
2. Imre Sóvágó, Katalin Várnagy, Katalin Ósz
Metal complexes of peptides containing monodentate or chelating imidazole nitrogen donors: Factors influencing the coordination of amide groups and imidazole side chains
Comments on Inorganic Chemistry, 2002, **23**, 149-178.
1. Katalin Ósz, Katalin Várnagy, Imre Sóvágó, Lídia Lennert, Helga Süli-Vargha, Daniele Sanna, Giovanni Micera
Equilibrium and structural studies on transition metal complexes of amino acid derivatives containing bis(pyridin-2-yl)methyl residue
New Journal of Chemistry, 2001, **25**, 700-706.