

IstvÃ¡n LÃ¡zÃ¡r

List of Publications by Year in descending order

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57
papers

1,324
citations

331670

21
h-index

361022

35
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59
all docs

59
docs citations

59
times ranked

1393
citing authors

#	ARTICLE	IF	CITATIONS
1	Kinetics of Formation and Dissociation of Lanthanide(III)-DOTA Complexes. <i>Inorganic Chemistry</i> , 1994, 33, 4070-4076.	4.0	199
2	In vivo Na-23 MR imaging and spectroscopy of rat brain during TmDOTP5 ⁺ infusion. <i>Journal of Magnetic Resonance Imaging</i> , 1992, 2, 385-391.	3.4	69
3	Minimal number of chromatographic test parameters for the characterisation of reversed-phase liquid chromatographic stationary phases. <i>Journal of Chromatography A</i> , 2002, 954, 99-114.	3.7	66
4	Synthesis and complexation properties of a new macrocyclic polyaza polyphosphinate ligand, DOTEP (1,4,7,10-tetraazacyclododecane-1,4,7,10-tetrakis(methyleneethylphosphinate)). <i>Inorganic Chemistry</i> , 1991, 30, 5016-5019.	4.0	61
5	Optimized synthesis, structure, and solution dynamics of 1,4,7,10-tetraazacyclododecane-1,4,7,10-tetrakis(methylenephosphonic acid) (H8DOTP). <i>Inorganic Chemistry</i> , 1992, 31, 4422-4424.	4.0	60
6	Mechanism of drug release from silica-gelatin aerogel—Relationship between matrix structure and release kinetics. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 152, 229-237.	5.0	60
7	Hybrid aerogel preparations as drug delivery matrices for low water-solubility drugs. <i>International Journal of Pharmaceutics</i> , 2015, 496, 360-370.	5.2	51
8	A Continuous Extraction and Pumpless Supercritical CO ₂ Drying System for Laboratory-Scale Aerogel Production. <i>Gels</i> , 2016, 2, 26.	4.5	42
9	Formation and Dissociation Kinetics of the Complexes Gd(DOTP) ⁵⁺ and Gd(DOTPMB) ⁺ . <i>European Journal of Inorganic Chemistry</i> , 2001, 2001, 813-820.	2.0	41
10	Application of tetraoxadiazacrown ether derivatives as chiral selector modifiers in capillary electrophoresis. <i>Journal of Chromatography A</i> , 2004, 1028, 325-332.	3.7	37
11	Complexation Properties of N,N ² ,N ³ ,N ^{2,3} -[1,4,7,10-Tetraazacyclododecane-1,4,7,10-tetrayltetrakis(1-oxoethane-2,1-diyl)]tetrakis[glycine] ₃₅ (H4dotagl). Equilibrium, Kinetic, and Relaxation Behavior of the Lanthanide(III) Complexes. <i>Helvetica Chimica Acta</i> , 2005, 88, 604-617.	1.8	35
12	Controlled release of methotrexate from functionalized silica-gelatin aerogel microparticles applied against tumor cell growth. <i>International Journal of Pharmaceutics</i> , 2019, 558, 396-403.	5.2	34
13	Synthesis and examination of amine-cyanocarboxyboranes, the boron analogues of β -cyanocarboxylic acids: X-ray structural study of the first lactam containing a boron atom in the lactam ring. <i>Journal of Organometallic Chemistry</i> , 2004, 689, 3567-3581.	1.8	33
14	Enantioselective capillary electrophoretic separation of tryptophane- and tyrosine-methylesters in a dual system with a tetra-oxadiazacrown-ether derivative and a cyclodextrin. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2005, 38, 601-608.	2.8	33
15	Photocatalytic performance of highly amorphous titania-silica aerogels with mesopores: The adverse effect of the in situ adsorption of some organic substrates during photodegradation. <i>Applied Surface Science</i> , 2015, 356, 521-531.	6.1	30
16	Chelating Tendencies of Bioactive Aminophosphonates. <i>Metal-Based Drugs</i> , 1994, 1, 247-264.	3.8	26
17	Synthesis and study of new functionalized silica aerogel poly(methyl methacrylate) composites for biomedical use. <i>Polymer Composites</i> , 2015, 36, 348-358.	4.6	25
18	The pore network and the adsorption characteristics of mesoporous silica aerogel: adsorption kinetics on a timescale of seconds. <i>RSC Advances</i> , 2015, 5, 107237-107246.	3.6	24

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19	Heat treatment induced phase transformations in zirconia and yttria-stabilized zirconia monolithic aerogels. <i>Journal of Supercritical Fluids</i> , 2019, 149, 54-63.	3.2	24
20	Rare-Earth Zirconate Ln ₂ Zr ₂ O ₇ (Ln: La, Nd, Gd, and Dy) Powders, Xerogels, and Aerogels: Preparation, Structure, and Properties. <i>Inorganic Chemistry</i> , 2019, 58, 14467-14477.	4.0	23
21	Mechanism of hydration of biocompatible silica-casein aerogels probed by NMR and SANS reveal backbone rigidity. <i>Applied Surface Science</i> , 2020, 531, 147232.	6.1	23
22	NMR and potentiometric studies of 1,4,7-triazacyclononane-N,N ² ,N ³ -tris(methylenephosphonate) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.48	21
23	Preparation and application of highly porous aerogel-based bioactive materials in dentistry. <i>Frontiers of Materials Science</i> , 2014, 8, 46-52.	2.2	21
24	Complexation Properties of the Di-, Tri-, and Tetraacetate Derivatives of Bis(aminomethyl)phosphinic Acid. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 701-713.	2.0	19
25	Biocompatible silica-gelatin hybrid aerogels covalently labeled with fluorescein. <i>Journal of Non-Crystalline Solids</i> , 2017, 473, 17-25.	3.1	18
26	Rapid and High Yield Detosylation of Linear and Macrocyclic p-Toluenesulfonamides. <i>Synthetic Communications</i> , 1995, 25, 3181-3185.	2.1	17
27	Preparation of N,N,N ² ,N ² -tetramethylethylenediamine adducts of new monosubstituted boranes. <i>Journal of Organometallic Chemistry</i> , 1988, 344, 29-35.	1.8	16
28	Integration of ground aerogel particles as chromatographic stationary phase into microchip. <i>Journal of Chromatography A</i> , 2011, 1218, 1011-1015.	3.7	15
29	NOTPME: A31P NMR probe for measurement of divalent cations in biological systems. <i>FEBS Letters</i> , 1991, 280, 121-124.	2.8	14
30	Synthesis of Ester Derivatives of 1,4,7-Triazacyclononane-1,4,7-tris(methylenephosphonic Acid) and 1,4,7-Triazacyclononane-1,4,7-tris(methyleneethylphosphinic Acid). <i>Synthesis</i> , 1995, 1995, 453-457.	2.3	14
31	Development of a capillary electrophoretic method for the separation of diastereoisomers of a new human immunodeficiency virus protease inhibitor. <i>Electrophoresis</i> , 2005, 26, 627-632.	2.4	14
32	Sol-gel synthesis, characterization and catalytic activity of silica aerogels functionalized with copper(II) complexes of cyclen and cyclam. <i>Microporous and Mesoporous Materials</i> , 2016, 234, 392-400.	4.4	14
33	Prevention of the Aggregation of Nanoparticles during the Synthesis of Nanogold-Containing Silica Aerogels. <i>Gels</i> , 2018, 4, 55.	4.5	14
34	Effects of side chain amino nitrogen donor atoms on metal complexation of aminohydroxamic acids: New diamino hydroxamates chelating Ni(II) more strongly than Fe(III). <i>Dalton Transactions RSC</i> , 2002, , 2632.	2.3	13
35	Effect of the Chemical Composition of Simulated Body Fluids on Aerogel-Based Bioactive Composites. <i>Journal of Composites Science</i> , 2017, 1, 15.	3.0	12
36	Supercritical CO ₂ extraction and selective adsorption of aroma materials of selected spice plants in functionalized silica aerogels. <i>Journal of Supercritical Fluids</i> , 2019, 148, 16-23.	3.2	11

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37	Synthesis, Potentiometric and ¹ H NMR Study of Protonation and Complex Formation of 1,4,7-Triazacyclononane-1,4-Diacetate. <i>Journal of Coordination Chemistry</i> , 2000, 51, 293-304.	2.2	9
38	Bromo derivatives of amine and phosphine complexes of cyanodihydroborane. Synthesis and reactivity. <i>Inorganica Chimica Acta</i> , 1994, 218, 21-26.	2.4	8
39	Simple and high yielding regioselective synthesis of 1,4,8-tri(carbamoylmethyl)-1,4,8,11-tetraazacyclo-tetradecane hydroiodide. <i>Tetrahedron Letters</i> , 1999, 40, 381-382.	1.4	8
40	Synthesis of the first amine-cyanocarboxyboranes, isoelectronic analogues of β -cyanocarboxylic acids. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2002, , 300-301.	1.3	8
41	β -Tricalcium phosphate silica aerogel as an alternative bioactive ceramic for the potential use in dentistry. <i>Advances in Applied Ceramics</i> , 2018, 117, 476-484.	1.1	8
42	Newly synthesized tetraoxa-diaza crown ether derivatives versus commercialized crown ethers in the separation of positional isomers with capillary electrophoresis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2006, 41, 1164-1170.	2.8	6
43	Lanthanide Complexes Formed with the Tri- and Tetraacetate Derivatives of Bis(aminomethyl)phosphinic Acid: Equilibrium, Kinetic and NMR Spectroscopic Studies. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 2062-2073.	2.0	6
44	The Effect of Heat Treatment of β -Tricalcium Phosphate-Containing Silica-Based Bioactive Aerogels on the Cellular Metabolism and Proliferation of MG63 Cells. <i>Biomedicines</i> , 2022, 10, 662.	3.2	6
45	N,N ² ,N ³ -tris(methoxymethyl)-1,4,7-triazacyclononane: a new synthetic tool for the synthesis of tris-N-substituted 1,4,7-triazacyclononane derivatives. <i>Journal of the Chemical Society Chemical Communications</i> , 1991, , 1252-1253.	2.0	5
46	Synthesis and properties of bis(amine)carboxyhydroboron(1+) cations. <i>Inorganica Chimica Acta</i> , 1994, 223, 155-157.	2.4	5
47	Synthesis and characterization of cyanohydroisocyanoborates. Reactivity of the isocyano group towards nucleophiles. <i>Polyhedron</i> , 1998, 17, 3175-3180.	2.2	5
48	CONVENIENT SYNTHESIS OF MONO- AND DITOSYLATED 1,4,7-TRIAZACYCLONONANE. <i>Synthetic Communications</i> , 2001, 31, 3141-3144.	2.1	4
49	Synthesis, Conformation and Equilibrium Study of New Piperazine and Azamacrocyclic Ligands with N-(Tetrahydro-2-oxofuran-3-yl) and N-[(Carboxy)(2-hydroxyethyl)methyl] Pendant Arms. <i>European Journal of Organic Chemistry</i> , 2002, 2002, 351-360.	2.4	4
50	The examination of aerogel composite artificial bone substitutes in animal models. <i>Biomechanica Hungarica</i> , 2013, , .	0.1	4
51	Complexation properties of macrocyclic polyoxadiazadiphosphonates. <i>Journal of the Chemical Society Dalton Transactions</i> , 1996, , 1113-1118.	1.1	3
52	Environment-Friendly Catalytic Mineralization of Phenol and Chlorophenols with Cu- and Fe-Tetrakis(4-aminophenyl)-porphyrin-Silica Hybrid Aerogels. <i>Gels</i> , 2022, 8, 202.	4.5	2
53	β -Tricalcium phosphate-silica aerogel as an alternative bioactive ceramic for the potential use in dentistry. <i>Advances in Applied Ceramics</i> , 2020, 119, 364-371.	1.1	1
54	Mesoporous silica-calcium phosphate composites for experimental bone substitution. <i>Biomechanica Hungarica</i> , 2010, , .	0.1	1

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55	Iron Oxyhydroxide Aerogels and Xerogels by Hydrolysis of $\text{FeCl}_3 \cdot 6 \text{H}_2\text{O}$ in Organic Media: Early Stages. <i>Croatia Chemica Acta</i> , 2015, 88, 413-419.	0.4	1
56	Iron oxyhydroxide aerogels and xerogels by controlled hydrolysis of $\text{FeCl}_3 \cdot 6\text{H}_2\text{O}$ in organic solvents: stages of formation. <i>RSC Advances</i> , 2015, 5, 72716-72727.	3.6	0
57	Determination of the application characteristics of the Slooff-technique with nano-composite bone substitution material by biomechanical tests. <i>Biomechanica Hungarica</i> , 2013, , .	0.1	0