JÃ³zsef KalmÃ¡r

List of Publications by Year
in descending order

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42	1,066	430874	414414
papers	citations	18 h-index	32 g-index

42	42	42	1308
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mechanistic explanation for differences between catalytic activities of dissolved and aerogel immobilized Cu(II) cyclen. Applied Surface Science, 2022, 579, 152210.	6.1	3
2	Interaction of Aqueous Bovine Serum Albumin with Silica Aerogel Microparticles: Sorption Induced Aggregation. International Journal of Molecular Sciences, 2022, 23, 2816.	4.1	0
3	DEM-Based Approach for the Modeling of Gelation and Its Application to Alginate. Journal of Chemical Information and Modeling, 2022, 62, 49-70.	5.4	8
4	Mechanism of Hydration and Hydration Induced Structural Changes of Calcium Alginate Aerogel. ACS Applied Materials & Interfaces, 2021, 13, 2997-3010.	8.0	16
5	Perspectives in the modeling of biopolymer aerogel networks subject to wetting. Proceedings in Applied Mathematics and Mechanics, 2021, 20, e202000170.	0.2	0
6	False Morphology of Aerogels Caused by Gold Coating for SEM Imaging. Polymers, 2021, 13, 588.	4.5	23
7	Aerogels in drug delivery: From design to application. Journal of Controlled Release, 2021, 332, 40-63.	9.9	123
8	In situ remediation efficacy of hybrid aerogel adsorbent in model aquatic culture of Paramecium caudatum exposed to Hg(II). Chemosphere, 2021, 275, 130019.	8.2	5
9	Physicochemical Characterization and Drug Release Properties of Methyl-Substituted Silica Xerogels Made Using Solâ€“Gel Process. International Journal of Molecular Sciences, 2021, 22, 9197.	4.1	8
10	Mesoporous Aerogel Microparticles Injected into the Abdominal Cavity of Mice Accumulate in Parathymic Lymph Nodes. International Journal of Molecular Sciences, 2021, 22, 9756.	4.1	4
11	Fundamental Skeletal Nanostructure of Nanoporous Polymer-Cross-Linked Alginate Aerogels and Its Relevance To Environmental Remediation. ACS Applied Nano Materials, 2021, 4, 10575-10583.	5.0	13
12	Mesoporous Silicaâ€“Gelatin Aerogels for the Selective Adsorption of Aqueous Hg(II). ACS Applied Nano Materials, 2020, 3, 195-206.	5.0	43
13	Mechanism of hydration of biocompatible silica-casein aerogels probed by NMR and SANS reveal backbone rigidity. Applied Surface Science, 2020, 531, 147232.	6.1	23
14	Synthesis and Stabilization of Support-Free Mesoporous Gold Nanoparticles. Nanomaterials, 2020, 10, 1107.	4.1	6
15	Gelatin content governs hydration induced structural changes in silica-gelatin hybrid aerogels â€“ Implications in drug delivery. Acta Biomaterialia, 2020, 105, 131-145.	8.3	47
16	Cisplatin loaded hybrid aerogel microparticles for cervical and colorectal cancer chemotherapy. , 2020, , .		0
17	Rare-Earth Zirconate Ln₂Zr₂O₇ (Ln: La, Nd, Gd, and Dy) Powders, Xerogels, and Aerogels: Preparation, Structure, and Properties. Inorganic Chemistry, 2019, 58, 14467-14477.	4.0	23
18	Heat treatment induced phase transformations in zirconia and yttria-stabilized zirconia monolithic aerogels. Journal of Supercritical Fluids, 2019, 149, 54-63.	3.2	24

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19	Controlled release of methotrexate from functionalized silica-gelatin aerogel microparticles applied against tumor cell growth. International Journal of Pharmaceutics, 2019, 558, 396-403.	5.2	34
20	Kinetics and mechanism of the chromium(vi) catalyzed decomposition of hypochlorous acid at elevated temperature and high ionic strength. Dalton Transactions, 2018, 47, 3831-3840.	3.3	13
21	A redox strategy to tailor the release properties of Fe(III)-alginate aerogels for oral drug delivery. Carbohydrate Polymers, 2018, 188, 159-167.	10.2	47
22	Equilibria and kinetics of chromium(VI) speciation in aqueous solution â€“ A comprehensive study from pH 2 to 11. Inorganica Chimica Acta, 2018, 472, 295-301.	2.4	55
23	Solvatochromic isocyanonaphthalene dyes as ligands for silver(I) complexes, their applicability in silver(I) detection and background reduction in biolabelling. Sensors and Actuators B: Chemical, 2018, 255, 2555-2567.	7.8	12
24	Kinetic Model for Hydrolytic Nucleation and Growth of TiO₂ Nanoparticles. Journal of Physical Chemistry C, 2018, 122, 19161-19170.	3.1	19
25	Matrix systems for oral drug delivery: Formulations and drug release. Drug Discovery Today: Technologies, 2018, 27, 71-80.	4.0	29
26	Mechanism of drug release from silica-gelatin aerogelâ€”Relationship between matrix structure and release kinetics. Colloids and Surfaces B: Biointerfaces, 2017, 152, 229-237.	5.0	60
27	Biocompatible silica-gelatin hybrid aerogels covalently labeled with fluorescein. Journal of Non-Crystalline Solids, 2017, 473, 17-25.	3.1	18
28	The Kinetics and Mechanism of Complex Redox Reactions in Aqueous Solution: The Tools of the Trade. Advances in Inorganic Chemistry, 2017, 70, 1-61.	1.0	3
29	Kinetics and mechanism of the adsorption of methylene blue from aqueous solution on the surface of a quartz cuvette by on-line UVâ€“Vis spectrophotometry. Dyes and Pigments, 2016, 127, 170-178.	3.7	28
30	Construction of a multipurpose photochemical reactor with on-line spectrophotometric detection. Photochemical and Photobiological Sciences, 2016, 15, 589-594.	2.9	14
31	Reaction Schemes That Are Easily Confused with a Reversible First-Order Reaction. International Journal of Chemical Kinetics, 2015, 47, 773-782.	1.6	12
32	The pore network and the adsorption characteristics of mesoporous silica aerogel: adsorption kinetics on a timescale of seconds. RSC Advances, 2015, 5, 107237-107246.	3.6	24
33	Photocatalytic performance of highly amorphous titaniaâ€“silica aerogels with mesopores: The adverse effect of the in situ adsorption of some organic substrates during photodegradation. Applied Surface Science, 2015, 356, 521-531.	6.1	30
34	Aqueous photochemical reactions of chloride, bromide, and iodide ions in a diode-array spectrophotometer. Autoinhibition in the photolysis of iodide ions. Dalton Transactions, 2014, 43, 4862.	3.3	14
35	Detailed Kinetics and Mechanism of the Oxidation of Thiocyanate Ion (SCN^{â€“}) by Peroxomonosulfate Ion (HSO₅^{â€“}). Formation and Subsequent Oxidation of Hypothiocyanite Ion (OSCN^{â€“}). Inorganic Chemistry, 2013, 52, 2150-2156.	4.0	14
36	Kinetics of Formation of the Hostâ€“Guest Complex of a Viologen with Cucurbit[7]uril. Organic Letters, 2012, 14, 3248-3251.	4.6	16

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37	Detailed mechanism of the autoxidation of N-hydroxyurea catalyzed by a superoxide dismutase mimic Mn(iii) porphyrin: formation of the nitrosylated Mn(ii) porphyrin as an intermediate. Dalton Transactions, 2012, 41, 11875.	3.3	9
38	Collision induced dissociation study of the major components of silymarin. International Journal of Mass Spectrometry, 2012, 315, 46-54.	1.5	6
39	Mechanism of Decomposition of the Human Defense Factor Hypothiocyanite Near Physiological pH. Journal of the American Chemical Society, 2011, 133, 19911-19921.	13.7	21
40	Energyâ€dependent collisionâ€induced dissociation study of buprenorphine and its synthetic precursors. Rapid Communications in Mass Spectrometry, 2011, 25, 41-49.	1.5	1
41	Water exchange rates of water-soluble manganese(iii) porphyrins of therapeutical potential. Dalton Transactions, 2010, 39, 4405.	3.3	24
42	One- Versus Two-Electron Oxidation with Peroxomonosulfate Ion: Reactions with Iron(II), Vanadium(IV), Halide Ions, and Photoreaction with Cerium(III). Inorganic Chemistry, 2009, 48, 1763-1773.	4.0	194