

# JÃ³zsef KalmÃ¡r

## List of Publications by Year in descending order

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42  
papers

1,066  
citations

430874

18  
h-index

414414

32  
g-index

42  
all docs

42  
docs citations

42  
times ranked

1308  
citing authors

#	ARTICLE	IF	CITATIONS
1	One- Versus Two-Electron Oxidation with Peroxomonosulfate Ion: Reactions with Iron(II), Vanadium(IV), Halide Ions, and Photoreaction with Cerium(III). <i>Inorganic Chemistry</i> , 2009, 48, 1763-1773.	4.0	194
2	Aerogels in drug delivery: From design to application. <i>Journal of Controlled Release</i> , 2021, 332, 40-63.	9.9	123
3	Mechanism of drug release from silica-gelatin aerogelâ€”Relationship between matrix structure and release kinetics. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 152, 229-237.	5.0	60
4	Equilibria and kinetics of chromium(VI) speciation in aqueous solution â€” A comprehensive study from pH 2 to 11. <i>Inorganica Chimica Acta</i> , 2018, 472, 295-301.	2.4	55
5	A redox strategy to tailor the release properties of Fe(III)-alginate aerogels for oral drug delivery. <i>Carbohydrate Polymers</i> , 2018, 188, 159-167.	10.2	47
6	Gelatin content governs hydration induced structural changes in silica-gelatin hybrid aerogels â€” Implications in drug delivery. <i>Acta Biomaterialia</i> , 2020, 105, 131-145.	8.3	47
7	Mesoporous Silicaâ€”Gelatin Aerogels for the Selective Adsorption of Aqueous Hg(II). <i>ACS Applied Nano Materials</i> , 2020, 3, 195-206.	5.0	43
8	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
9	Photocatalytic performance of highly amorphous titaniaâ€”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
10	Matrix systems for oral drug delivery: Formulations and drug release. <i>Drug Discovery Today: Technologies</i> , 2018, 27, 71-80.	4.0	29
11	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. <i>Dyes and Pigments</i> , 2016, 127, 170-178.	3.7	28
12	Water exchange rates of water-soluble manganese(III) porphyrins of therapeutical potential. <i>Dalton Transactions</i> , 2010, 39, 4405.	3.3	24
13	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
14	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
15	Rare-Earth Zirconate Ln <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> (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
16	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
17	False Morphology of Aerogels Caused by Gold Coating for SEM Imaging. <i>Polymers</i> , 2021, 13, 588.	4.5	23
18	Mechanism of Decomposition of the Human Defense Factor Hypothiocyanite Near Physiological pH. <i>Journal of the American Chemical Society</i> , 2011, 133, 19911-19921.	13.7	21

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19	Kinetic Model for Hydrolytic Nucleation and Growth of TiO <sub>2</sub> Nanoparticles. Journal of Physical Chemistry C, 2018, 122, 19161-19170.	3.1	19
20	Biocompatible silica-gelatin hybrid aerogels covalently labeled with fluorescein. Journal of Non-Crystalline Solids, 2017, 473, 17-25.	3.1	18
21	Kinetics of Formation of the Host-Guest Complex of a Viologen with Cucurbit[7]uril. Organic Letters, 2012, 14, 3248-3251.	4.6	16
22	Mechanism of Hydration and Hydration Induced Structural Changes of Calcium Alginate Aerogel. ACS Applied Materials & Interfaces, 2021, 13, 2997-3010.	8.0	16
23	Detailed Kinetics and Mechanism of the Oxidation of Thiocyanate Ion (SCN <sup>-</sup> ) by Peroxomonosulfate Ion (HSO <sub>5</sub> <sup>-</sup> ). Formation and Subsequent Oxidation of Hypothiocyanite Ion (OSCN <sup>-</sup> ). Inorganic Chemistry, 2013, 52, 2150-2156.	4.0	14
24	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
25	Construction of a multipurpose photochemical reactor with on-line spectrophotometric detection. Photochemical and Photobiological Sciences, 2016, 15, 589-594.	2.9	14
26	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
27	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
28	Reaction Schemes That Are Easily Confused with a Reversible First-Order Reaction. International Journal of Chemical Kinetics, 2015, 47, 773-782.	1.6	12
29	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
30	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
31	Physicochemical Characterization and Drug Release Properties of Methyl-Substituted Silica Xerogels Made Using Sol-Gel Process. International Journal of Molecular Sciences, 2021, 22, 9197.	4.1	8
32	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
33	Collision induced dissociation study of the major components of silymarin. International Journal of Mass Spectrometry, 2012, 315, 46-54.	1.5	6
34	Synthesis and Stabilization of Support-Free Mesoporous Gold Nanoparticles. Nanomaterials, 2020, 10, 1107.	4.1	6
35	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
36	Mesoporous Aerogel Microparticles Injected into the Abdominal Cavity of Mice Accumulate in Parathyroid Lymph Nodes. International Journal of Molecular Sciences, 2021, 22, 9756.	4.1	4

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37	The Kinetics and Mechanism of Complex Redox Reactions in Aqueous Solution: The Tools of the Trade. <i>Advances in Inorganic Chemistry</i> , 2017, 70, 1-61.	1.0	3
38	Mechanistic explanation for differences between catalytic activities of dissolved and aerogel immobilized Cu(II) cyclen. <i>Applied Surface Science</i> , 2022, 579, 152210.	6.1	3
39	Energyâ€dependent collisionâ€induced dissociation study of buprenorphine and its synthetic precursors. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 41-49.	1.5	1
40	Perspectives in the modeling of biopolymer aerogel networks subject to wetting. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2021, 20, e202000170.	0.2	0
41	Cisplatin loaded hybrid aerogel microparticles for cervical and colorectal cancer chemotherapy. , 2020, , .		0
42	Interaction of Aqueous Bovine Serum Albumin with Silica Aerogel Microparticles: Sorption Induced Aggregation. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2816.	4.1	0