

Lszl Szab

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

34 papers	344 citations	11 h-index	16 g-index
35 ext. papers	446 ext. citations	6.5 avg, IF	3.66 L-index

#	Paper	IF	Citations
34	Tailoring the Structure of Chitosan-Based Porous Carbon Nanofiber Architectures toward Efficient Capacitive Charge Storage and Capacitive Deionization.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	3
33	Matrix effect in the hydroxyl radical induced degradation of β -lactam and tetracycline type antibiotics. <i>Radiation Physics and Chemistry</i> , 2022 , 193, 109980	2.5	0
32	Elimination of oxacillin, its toxicity and antibacterial activity by using ionizing radiation. <i>Chemosphere</i> , 2022 , 286, 131467	8.4	2
31	Low waste process of rapid cellulose transesterification using ionic liquid/DMSO mixed solvent: Towards more sustainable reaction systems. <i>Carbohydrate Polymers</i> , 2021 , 256, 117560	10.3	6
30	Direct Synthesis of Full-Biobased Cellulose Esters from Essential Oil Component β -Unsaturated Aldehydes. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 8450-8457	8.3	1
29	Controlled acetylation of kraft lignin for tailoring polyacrylonitrile-kraft lignin interactions towards the production of quality carbon nanofibers. <i>Chemical Engineering Journal</i> , 2021 , 405, 126640	14.7	6
28	Antibiotics in a wastewater matrix at environmentally relevant concentrations affect coexisting resistant/sensitive bacterial cultures with profound impact on advanced oxidation treatment. <i>Science of the Total Environment</i> , 2021 , 754, 142181	10.2	9
27	Ultrafine self-N-doped porous carbon nanofibers with hierarchical pore structure utilizing a biobased chitosan precursor. <i>International Journal of Biological Macromolecules</i> , 2021 , 182, 445-454	7.9	5
26	Mussel-Inspired Design of a Carbon Fiber-Cellulosic Polymer Interface toward Engineered Biobased Carbon Fiber-Reinforced Composites. <i>ACS Omega</i> , 2020 , 5, 27072-27082	3.9	7
25	Laplace stretch: Eulerian and Lagrangian formulations. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2020 , 71, 1	1.6	4
24	Chemical Modification of Plasticized Lignins Using Reactive Extrusion. <i>Frontiers in Chemistry</i> , 2019 , 7, 633	5	10
23	Photocatalytic, photolytic and radiolytic elimination of imidacloprid from aqueous solution: Reaction mechanism, efficiency and economic considerations. <i>Applied Catalysis B: Environmental</i> , 2019 , 250, 429-439	21.8	26
22	Lignin as a Functional Green Coating on Carbon Fiber Surface to Improve Interfacial Adhesion in Carbon Fiber Reinforced Polymers. <i>Materials</i> , 2019 , 12,	3.5	9
21	Electron beam induced strengthening of a short carbon fiber reinforced green thermoplastic composite: Key factors determining materials performance. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019 , 121, 386-396	8.4	6
20	Quantitative analysis of native reactive functional groups on carbon fiber surface: An electrochemical approach. <i>Applied Surface Science</i> , 2019 , 494, 315-325	6.7	10
19	Short Carbon Fiber Reinforced Polymers: Utilizing Lignin to Engineer Potentially Sustainable Resource-Based Biocomposites. <i>Frontiers in Chemistry</i> , 2019 , 7, 757	5	7
18	Influence of ionizing radiation on the antimicrobial activity of the antibiotics sulfamethoxazole and trimethoprim. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2018 , 53, 687-693	2.3	1

17	Electron beam treatment for eliminating the antimicrobial activity of piperacillin in wastewater matrix. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 58, 24-32	6.3	13
16	Applicability evaluation of advanced processes for elimination of neurophysiological activity of antidepressant fluoxetine. <i>Chemosphere</i> , 2018 , 193, 489-497	8.4	6
15	Interphase Engineering of a Cellulose-Based Carbon Fiber Reinforced Composite by Applying Click Chemistry. <i>ChemistryOpen</i> , 2018 , 7, 720-729	2.3	8
14	Carbon fibre reinforced cellulose-based polymers: intensifying interfacial adhesion between the fibre and the matrix.. <i>RSC Advances</i> , 2018 , 8, 22729-22736	3.7	12
13	Electron beam treatment for tackling the escalating problems of antibiotic resistance: Eliminating the antimicrobial activity of wastewater matrices originating from erythromycin. <i>Chemical Engineering Journal</i> , 2017 , 321, 314-324	14.7	19
12	Mechanistic study on thiachloprid transformation: Free radical reactions. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017 , 343, 17-25	4.7	5
11	A Microbiological Assay for Assessing the Applicability of Advanced Oxidation Processes for Eliminating the Sublethal Effects of Antibiotics on Selection of Resistant Bacteria. <i>Environmental Science and Technology Letters</i> , 2017 , 4, 251-255	11	8
10	On the complex OH/O-induced free radical chemistry of arylalkylamines with special emphasis on the contribution of the alkylamine side chain. <i>Free Radical Research</i> , 2017 , 51, 124-140	4	4
9	On the configurational-force-based r-adaptive mesh refinement in isogeometric analysis. <i>Finite Elements in Analysis and Design</i> , 2017 , 124, 1-6	2.2	2
8	Drugs with susceptible sites for free radical induced oxidative transformations: the case of a penicillin. <i>Free Radical Research</i> , 2016 , 50, 26-38	4	13
7	Change in hydrophilicity of penicillins during advanced oxidation by radiolytically generated OH compromises the elimination of selective pressure on bacterial strains. <i>Science of the Total Environment</i> , 2016 , 551-552, 393-403	10.2	23
6	OH and e-aq are yet good candidates for demolishing the β -lactam system of a penicillin eliminating the antimicrobial activity. <i>Radiation Physics and Chemistry</i> , 2016 , 124, 84-90	2.5	20
5	One-electron oxidation of molecules with aromatic and thioether functions: Cl ₂ /Br ₂ and OH induced oxidation of penicillins studied by pulse radiolysis. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016 , 326, 50-59	4.7	19
4	Analytical approaches to the OH radical induced degradation of sulfonamide antibiotics in dilute aqueous solutions. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015 , 106, 52-60	3.5	37
3	One-Electron Reduction of Penicillins in Relation to the Oxidative Stress Phenomenon. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 29673-81	6.3	5
2	Hydroxyl radical induced degradation of salicylates in aerated aqueous solution. <i>Radiation Physics and Chemistry</i> , 2014 , 97, 239-245	2.5	12
1	Radiolysis of paracetamol in dilute aqueous solution. <i>Radiation Physics and Chemistry</i> , 2012 , 81, 1503-1507	2.5	26