Lszl Szab

List of Publications by Citations

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	Analytical approaches to the OH radical induced degradation of sulfonamide antibiotics in dilute aqueous solutions. *Journal of Pharmaceutical and Biomedical Analysis*, **2015**, 106, 52-60	3.5	37
33	Photocatalytic, photolytic and radiolytic elimination of imidacloprid from aqueous solution: Reaction mechanism, efficiency and economic considerations. *Applied Catalysis B: Environmental*, **2019**, 250, 429-439	21.8	26
32	Radiolysis of paracetamol in dilute aqueous solution. *Radiation Physics and Chemistry*, **2012**, 81, 1503-1507	2.5	26
31	Change in hydrophilicity of penicillins during advanced oxidation by radiolytically generated OH compromises the elimination of selective pressure on bacterial strains. *Science of the Total Environment*, **2016**, 551-552, 393-403	10.2	23
30	OH and e-aq are yet good candidates for demolishing the lactam system of a penicillin eliminating the antimicrobial activity. *Radiation Physics and Chemistry*, **2016**, 124, 84-90	2.5	20
29	Electron beam treatment for tackling the escalating problems of antibiotic resistance: Eliminating the antimicrobial activity of wastewater matrices originating from erythromycin. *Chemical Engineering Journal*, **2017**, 321, 314-324	14.7	19
28	One-electron oxidation of molecules with aromatic and thioether functions: Cl2 Br2 and OH induced oxidation of penicillins studied by pulse radiolysis. *Journal of Photochemistry and Photobiology A: Chemistry*, **2016**, 326, 50-59	4.7	19
27	Drugs with susceptible sites for free radical induced oxidative transformations: the case of a penicillin. *Free Radical Research*, **2016**, 50, 26-38	4	13
26	Electron beam treatment for eliminating the antimicrobial activity of piperacillin in wastewater matrix. *Journal of Industrial and Engineering Chemistry*, **2018**, 58, 24-32	6.3	13
25	Hydroxyl radical induced degradation of salicylates in aerated aqueous solution. *Radiation Physics and Chemistry*, **2014**, 97, 239-245	2.5	12
24	Carbon fibre reinforced cellulose-based polymers: intensifying interfacial adhesion between the fibre and the matrix.. *RSC Advances*, **2018**, 8, 22729-22736	3.7	12
23	Chemical Modification of Plasticized Lignins Using Reactive Extrusion. *Frontiers in Chemistry*, **2019**, 7, 633	5	10
22	Quantitative analysis of native reactive functional groups on carbon fiber surface: An electrochemical approach. *Applied Surface Science*, **2019**, 494, 315-325	6.7	10
21	Lignin as a Functional Green Coating on Carbon Fiber Surface to Improve Interfacial Adhesion in Carbon Fiber Reinforced Polymers. *Materials*, **2019**, 12,	3.5	9
20	Antibiotics in a wastewater matrix at environmentally relevant concentrations affect coexisting resistant/sensitive bacterial cultures with profound impact on advanced oxidation treatment. *Science of the Total Environment*, **2021**, 754, 142181	10.2	9
19	A Microbiological Assay for Assessing the Applicability of Advanced Oxidation Processes for Eliminating the Sublethal Effects of Antibiotics on Selection of Resistant Bacteria. *Environmental Science and Technology Letters*, **2017**, 4, 251-255	11	8
18	Interphase Engineering of a Cellulose-Based Carbon Fiber Reinforced Composite by Applying Click Chemistry. *ChemistryOpen*, **2018**, 7, 720-729	2.3	8

17	Mussel-Inspired Design of a Carbon Fiber-Cellulosic Polymer Interface toward Engineered Biobased Carbon Fiber-Reinforced Composites. *ACS Omega*, **2020**, 5, 27072-27082	3.9	7
16	Short Carbon Fiber Reinforced Polymers: Utilizing Lignin to Engineer Potentially Sustainable Resource-Based Biocomposites. *Frontiers in Chemistry*, **2019**, 7, 757	5	7
15	Electron beam induced strengthening of a short carbon fiber reinforced green thermoplastic composite: Key factors determining materials performance. *Composites Part A: Applied Science and Manufacturing*, **2019**, 121, 386-396	8.4	6
14	Low waste process of rapid cellulose transesterification using ionic liquid/DMSO mixed solvent: Towards more sustainable reaction systems. *Carbohydrate Polymers*, **2021**, 256, 117560	10.3	6
13	Controlled acetylation of kraft lignin for tailoring polyacrylonitrile-kraft lignin interactions towards the production of quality carbon nanofibers. *Chemical Engineering Journal*, **2021**, 405, 126640	14.7	6
12	Applicability evaluation of advanced processes for elimination of neurophysiological activity of antidepressant fluoxetine. *Chemosphere*, **2018**, 193, 489-497	8.4	6
11	Mechanistic study on thiacloprid transformation: Free radical reactions. *Journal of Photochemistry and Photobiology A: Chemistry*, **2017**, 343, 17-25	4.7	5
10	One-Electron Reduction of Penicillins in Relation to the Oxidative Stress Phenomenon. *International Journal of Molecular Sciences*, **2015**, 16, 29673-81	6.3	5
9	Ultrafine self-N-doped porous carbon nanofibers with hierarchical pore structure utilizing a biobased chitosan precursor. *International Journal of Biological Macromolecules*, **2021**, 182, 445-454	7.9	5
8	On the complex OH/O-induced free radical chemistry of arylalkylamines with special emphasis on the contribution of the alkylamine side chain. *Free Radical Research*, **2017**, 51, 124-140	4	4
7	Laplace stretch: Eulerian and Lagrangian formulations. *Zeitschrift Fur Angewandte Mathematik Und Physik*, **2020**, 71, 1	1.6	4
6	Tailoring the Structure of Chitosan-Based Porous Carbon Nanofiber Architectures toward Efficient Capacitive Charge Storage and Capacitive Deionization.. *ACS Applied Materials & Interfaces*, **2022**,	9.5	3
5	On the configurational-force-based r-adaptive mesh refinement in isogeometric analysis. *Finite Elements in Analysis and Design*, **2017**, 124, 1-6	2.2	2
4	Elimination of oxacillin, its toxicity and antibacterial activity by using ionizing radiation. *Chemosphere*, **2022**, 286, 131467	8.4	2
3	Influence of ionizing radiation on the antimicrobial activity of the antibiotics sulfamethoxazole and trimethoprim. *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering*, **2018**, 53, 687-693	2.3	1
2	Direct Synthesis of Full-Biobased Cellulose Esters from Essential Oil Component Unsaturated Aldehydes. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 8450-8457	8.3	1
1	Matrix effect in the hydroxyl radical induced degradation of lactam and tetracycline type antibiotics. *Radiation Physics and Chemistry*, **2022**, 193, 109980	2.5	0