

Bing Wu

List of Publications by Year in descending order

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29
papers

577
citations

623734

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all docs

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29
times ranked

870
citing authors

#	ARTICLE	IF	CITATIONS
1	Facile Green Route to Ni/Co Oxide Nanoparticle Embedded 3D Graphitic Carbon Nanosheets for High Performance Hybrid Supercapacitor Devices. <i>ACS Applied Energy Materials</i> , 2019, 2, 3389-3399.	5.1	75
2	Relationship between chemical composition and oxidative potential of secondary organic aerosol from polycyclic aromatic hydrocarbons. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 3987-4003.	4.9	72
3	Direct Conversion of McDonald's™s Waste Cooking Oil into a Biodegradable High-Resolution 3D-Printing Resin. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 1171-1177.	6.7	42
4	Digital microfluidics and nuclear magnetic resonance spectroscopy for <i>in situ</i> diffusion measurements and reaction monitoring. <i>Lab on A Chip</i> , 2019, 19, 641-653.	6.0	39
5	Revealing Molecular Mechanisms in Hierarchical Nanoporous Carbon via Nuclear Magnetic Resonance. <i>Matter</i> , 2020, 3, 2093-2107.	10.0	34
6	Rapid Chemical Reaction Monitoring by Digital Microfluidics-NMR: Proof of Principle Towards an Automated Synthetic Discovery Platform. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15372-15376.	13.8	33
7	Aggregation of Microtubule Binding Repeats of Tau Protein is Promoted by Cu ²⁺ . <i>ACS Omega</i> , 2019, 4, 5356-5366.	3.5	30
8	Network Structure in Acrylate Systems: Effect of Junction Topology on Cross-Link Density and Macroscopic Gel Properties. <i>Macromolecules</i> , 2016, 49, 6531-6540.	4.8	27
9	Novel injectable gallium-based self-setting glass-alginate hydrogel composite for cardiovascular tissue engineering. <i>Carbohydrate Polymers</i> , 2019, 217, 152-159.	10.2	25
10	State of the art of intraocular lens manufacturing. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 98, 1103-1130.	3.0	22
11	Facile Approach for Synthesizing High-Performance MnO/C Electrodes from Rice Husk. <i>ACS Omega</i> , 2019, 4, 18908-18917.	3.5	17
12	Understanding the Fate of Environmental Chemicals Inside Living Organisms: NMR-Based ¹³ C Isotopic Suppression Selects Only the Molecule of Interest within ¹³ C-Enriched Organisms. <i>Analytical Chemistry</i> , 2019, 91, 15000-15008.	6.5	16
13	Biocompatible polypeptide-based interpenetrating network (IPN) hydrogels with enhanced mechanical properties. <i>Journal of Materials Chemistry B</i> , 2020, 8, 7785-7791.	5.8	16
14	Exploring the interactions of iron and zinc with the microtubule binding repeats R1 and R4. <i>Journal of Inorganic Biochemistry</i> , 2020, 205, 110987.	3.5	15
15	Improvements in lipid suppression for ¹ H NMR-based metabolomics: Applications to solution-state and HR-MAS NMR in natural and in vivo samples. <i>Magnetic Resonance in Chemistry</i> , 2019, 57, 69-81.	1.9	14
16	5-Axis CNC Micromilling for Rapid, Cheap, and Background-Free NMR Microcoils. <i>Analytical Chemistry</i> , 2020, 92, 15454-15462.	6.5	13
17	Coastal fisheries resource monitoring through A deep learning-based underwater video analysis. <i>Estuarine, Coastal and Shelf Science</i> , 2022, 269, 107815.	2.1	13
18	The effect of hydrogen bonding on diffusion and permeability in UV-cured Polyacrylate-based networks for controlled release. <i>Journal of Controlled Release</i> , 2020, 327, 150-160.	9.9	12

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19	Targeting the Lowest Concentration of a Toxin That Induces a Detectable Metabolic Response in Living Organisms: Time-Resolved <i>In Vivo</i> 2D NMR during a Concentration Ramp. <i>Analytical Chemistry</i> , 2020, 92, 9856-9865.	6.5	10
20	Impact of morphology on O ₂ permeability in silicone hydrogel membranes: new insights into domain percolation from experiments and simulations. <i>Journal of Membrane Science</i> , 2021, 621, 118970.	8.2	10
21	Towards real-time kinetic monitoring of wastewater treatment: A case study of sunlight and ozone treatment of unconcentrated wastewater using flow NMR. <i>Chemical Engineering Journal</i> , 2021, 405, 126696.	12.7	10
22	Gadolinium-loaded polychelating amphiphilic polymer as an enhanced MRI contrast agent for human multiple myeloma and non Hodgkin's lymphoma (human Burkitt's lymphoma). <i>RSC Advances</i> , 2014, 4, 18007.	3.6	7
23	Evaluation of double-tuned single-sided planar microcoils for the analysis of small ¹³ C enriched biological samples using ¹ H- ¹³ C 2D heteronuclear correlation NMR spectroscopy. <i>Magnetic Resonance in Chemistry</i> , 2022, 60, 386-397.	1.9	6
24	Ion-Triggered Hydrogels Self-Assembled from Statistical Copolypeptides. <i>ACS Macro Letters</i> , 2022, 11, 323-328.	4.8	6
25	Production of methane and gaseous compounds by surface microbial activity in a small pockmark field, Dunmanus Bay, Ireland. <i>Estuarine, Coastal and Shelf Science</i> , 2021, 255, 107340.	2.1	4
26	Facile route to biomass-derived 1D carbon fiber supported high-performance MnO-based nanocomposite anode material. <i>Sustainable Materials and Technologies</i> , 2021, 29, e00322.	3.3	4
27	Rapid Chemical Reaction Monitoring by Digital Microfluidics-NMR: Proof of Principle Towards an Automated Synthetic Discovery Platform. <i>Angewandte Chemie</i> , 2019, 131, 15516-15520.	2.0	3
28	Effect of H-bonding on network junction and macroscopic elastomer properties in photocured polyacrylate films. <i>Materials Chemistry Frontiers</i> , 2022, 6, 990-1004.	5.9	2
29	Fine property-tuning through Ca content control in a facile synthesis of glasses-based self-setting injectable hydrogel. <i>Materials and Design</i> , 2021, 211, 110166.	7.0	0