

Rohan Dassanayake

List of Publications by Year in descending order

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35
papers

775
citations

567144

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526166

27
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37
all docs

37
docs citations

37
times ranked

914
citing authors

#	ARTICLE	IF	CITATIONS
1	Guar gum as efficient non-toxic inhibitor of carbon steel corrosion in phosphoric acid medium: Electrochemical, surface, DFT and MD simulations studies. <i>Journal of Molecular Structure</i> , 2017, 1145, 43-54.	1.8	109
2	Changes in Methionine Metabolism and Histone H3 Trimethylation Are Linked to Mitochondrial Defects in Multiple Sclerosis. <i>Journal of Neuroscience</i> , 2015, 35, 15170-15186.	1.7	55
3	Recent Advances in Biopolymer-Based Dye Removal Technologies. <i>Molecules</i> , 2021, 26, 4697.	1.7	54
4	Development of Starch-Based Materials Using Current Modification Techniques and Their Applications: A Review. <i>Molecules</i> , 2021, 26, 6880.	1.7	46
5	One-pot synthesis of MnO ₂ @ chitin hybrids for effective removal of methylene blue. <i>International Journal of Biological Macromolecules</i> , 2016, 93, 350-358.	3.6	43
6	Amidoxime-functionalized nanocrystalline cellulose@mesoporous silica composites for carbon dioxide sorption at ambient and elevated temperatures. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7462-7473.	5.2	42
7	Activated carbon derived from chitin aerogels: preparation and CO ₂ adsorption. <i>Cellulose</i> , 2018, 25, 1911-1920.	2.4	40
8	Preparation and adsorption properties of aerocellulose-derived activated carbon monoliths. <i>Cellulose</i> , 2016, 23, 1363-1374.	2.4	36
9	Amidoxime-functionalized microcrystalline cellulose@mesoporous silica composites for carbon dioxide sorption at elevated temperatures. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4808-4819.	5.2	33
10	Preparation of aerochitin@TiO ₂ composite for efficient photocatalytic degradation of methylene blue. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45908.	1.3	27
11	Biopolymer-Based Materials from Polysaccharides: Properties, Processing, Characterization and Sorption Applications. , 0, , .		27
12	Compatibilization of Starch/Synthetic Biodegradable Polymer Blends for Packaging Applications: A Review. <i>Journal of Composites Science</i> , 2021, 5, 300.	1.4	22
13	Borax-Cross-Linked Guar Gum-Manganese Dioxide Composites for Oxidative Decolorization of Methylene Blue. <i>Journal of Nanomaterials</i> , 2019, 2019, 1-11.	1.5	21
14	Emerging investigator series: synthesis of magnesium oxide nanoparticles fabricated on a graphene oxide nanocomposite for CO ₂ sequestration at elevated temperatures. <i>Environmental Science: Nano</i> , 2020, 7, 1225-1239.	2.2	21
15	Kinetic and Mechanistic Studies on the Reactions of the Reduced Vitamin B ₁₂ Complex Cob(II)alamin with Nitrite and Nitrate. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 913-921.	1.0	17
16	Preparation of chitin@CdTe quantum dots films and antibacterial effect on <i>Staphylococcus aureus</i> and <i>Pseudomonas aeruginosa</i> . <i>Journal of Applied Polymer Science</i> , 2017, 134, .	1.3	17
17	Optimization and validation of cryostat temperature conditions for trans-reflectance mode FTIR microspectroscopic imaging of biological tissues. <i>MethodsX</i> , 2017, 4, 118-127.	0.7	17
18	Development of Alumina@Mesoporous Organosilica Hybrid Materials for Carbon Dioxide Adsorption at 25 °C. <i>Materials</i> , 2018, 11, 2301.	1.3	15

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19	Removal of Pb(II) Ions from Aqueous Solution Using Modified Starch. <i>Journal of Composites Science</i> , 2021, 5, 46.	1.4	15
20	Rapid Photoactivated Generation of Nitroxyl (HNO) under Neutral pH Conditions. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 13229-13232.	7.2	14
21	Kinetic studies on the reaction of cob(II)alamin with hypochlorous acid: Evidence for one electron oxidation of the metal center and corrin ring destruction. <i>Journal of Inorganic Biochemistry</i> , 2016, 163, 81-87.	1.5	12
22	Pulse Radiolysis Studies on the Reaction of the Reduced Vitamin B ₁₂ Complex Cob(II)alamin with Superoxide. <i>ChemBioChem</i> , 2013, 14, 1081-1083.	1.3	11
23	Synthesis of Hematite Nanodiscs from Natural Laterites and Investigating Their Adsorption Capability of Removing Ni ²⁺ and Cd ²⁺ Ions from Aqueous Solutions. <i>Journal of Composites Science</i> , 2020, 4, 57.	1.4	11
24	Pulse Radiolysis and Ultra-High-Performance Liquid Chromatography/High-Resolution Mass Spectrometry Studies on the Reactions of the Carbonate Radical with Vitamin B ₁₂ Derivatives. <i>Chemistry - A European Journal</i> , 2015, 21, 6409-6419.	1.7	10
25	Pulse radiolysis studies of the reactions of nitrogen dioxide with the vitamin B12 complexes cob(II)alamin and nitrocobalamin. <i>Journal of Inorganic Biochemistry</i> , 2015, 142, 54-58.	1.5	10
26	Characterization of cellulose nanocrystals by current spectroscopic techniques. <i>Applied Spectroscopy Reviews</i> , 2023, 58, 180-205.	3.4	10
27	Preparation and Characterization of Dual-Modified Cassava Starch-Based Biodegradable Foams for Sustainable Packaging Applications. <i>ACS Omega</i> , 2022, 7, 19579-19590.	1.6	10
28	Mechanistic Studies on the Reaction of Nitrocobalamin with Glutathione: Kinetic Evidence for Formation of an Aquacobalamin Intermediate. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 3049-3053.	1.0	8
29	Cotton Cellulose-CdTe Quantum Dots Composite Films with Inhibition of Biofilm-Forming <i>S. aureus</i> . <i>Fibers</i> , 2019, 7, 57.	1.8	8
30	Zirconium Containing Periodic Mesoporous Organosilica: The Effect of Zr on CO ₂ Sorption at Ambient Conditions. <i>Journal of Composites Science</i> , 2022, 6, 168.	1.4	5
31	Facile Synthesis and Surface Characterization of Titania-Incorporated Mesoporous Organosilica Materials. <i>Journal of Composites Science</i> , 2019, 3, 77.	1.4	3
32	Optimization of <i>Aedes albopictus</i> rearing procedures for combined sterile insect techniques (SIT) and Wolbachia-based laboratory studies in Sri Lanka. <i>International Journal of Tropical Insect Science</i> , 2020, 40, 801-807.	0.4	3
33	Rapid Photoactivated Generation of Nitroxyl (HNO) under Neutral pH Conditions. <i>Angewandte Chemie</i> , 2016, 128, 13423-13426.	1.6	2
34	Cotton Cellulose-Derived Hydrogels with Tunable Absorbability: Research Advances and Prospects. <i>Polymers and Polymeric Composites</i> , 2018, , 1-27.	0.6	0
35	Cotton Cellulose-Derived Hydrogels with Tunable Absorbability: Research Advances and Prospects. <i>Polymers and Polymeric Composites</i> , 2019, , 331-356.	0.6	0