

Aminul Islam

List of Publications by Year in descending order

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Version: 2024-02-01

127
papers

8,192
citations

34016

52
h-index

48187

88
g-index

130
all docs

130
docs citations

130
times ranked

5107
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient detection and adsorption of cadmium(II) ions using innovative nano-composite materials. <i>Chemical Engineering Journal</i> , 2018, 343, 118-127.	6.6	363
2	Semantic text similarity using corpus-based word similarity and string similarity. <i>ACM Transactions on Knowledge Discovery From Data</i> , 2008, 2, 1-25.	2.5	319
3	Advances in sustainable approaches to recover metals from e-waste-A review. <i>Journal of Cleaner Production</i> , 2020, 244, 118815.	4.6	290
4	Inorganic-organic based novel nano-conjugate material for effective cobalt(II) ions capturing from wastewater. <i>Chemical Engineering Journal</i> , 2017, 324, 130-139.	6.6	265
5	Offering an innovative composited material for effective lead(II) monitoring and removal from polluted water. <i>Journal of Cleaner Production</i> , 2019, 231, 214-223.	4.6	231
6	Introducing an amine functionalized novel conjugate material for toxic nitrite detection and adsorption from wastewater. <i>Journal of Cleaner Production</i> , 2019, 228, 778-785.	4.6	223
7	Efficient biodiesel production from <i>Jatropha curcus</i> using CaSO ₄ /Fe ₂ O ₃ -SiO ₂ core-shell magnetic nanoparticles. <i>Journal of Cleaner Production</i> , 2019, 208, 816-826.	4.6	222
8	Introducing an alternate conjugated material for enhanced lead(II) capturing from wastewater. <i>Journal of Cleaner Production</i> , 2019, 224, 920-929.	4.6	211
9	Current treatment technologies and mechanisms for removal of indigo carmine dyes from wastewater: A review. <i>Journal of Molecular Liquids</i> , 2020, 318, 114061.	2.3	210
10	Naked-eye lead(II) capturing from contaminated water using innovative large-pore facial composite materials. <i>Microchemical Journal</i> , 2020, 154, 104585.	2.3	195
11	Optimization of an innovative composited material for effective monitoring and removal of cobalt(II) from wastewater. <i>Journal of Molecular Liquids</i> , 2020, 298, 112035.	2.3	194
12	Sustainable detection and capturing of cerium(III) using ligand embedded solid-state conjugate adsorbent. <i>Journal of Molecular Liquids</i> , 2021, 338, 116667.	2.3	179
13	Utilizing an alternative composite material for effective copper(II) ion capturing from wastewater. <i>Journal of Molecular Liquids</i> , 2021, 336, 116325.	2.3	177
14	Efficient cesium encapsulation from contaminated water by cellulosic biomass based activated wood charcoal. <i>Chemosphere</i> , 2021, 262, 127801.	4.2	169
15	Ligand based sustainable composite material for sensitive nickel(II) capturing in aqueous media. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103591.	3.3	161
16	Sustainable toxic dyes removal with advanced materials for clean water production: A comprehensive review. <i>Journal of Cleaner Production</i> , 2022, 332, 130039.	4.6	159
17	Improving the hydrogen production from water over MgO promoted Ni@Si/CNTs photocatalyst. <i>Journal of Cleaner Production</i> , 2019, 238, 117887.	4.6	158
18	Step towards the sustainable toxic dyes removal and recycling from aqueous solution- A comprehensive review. <i>Resources, Conservation and Recycling</i> , 2021, 175, 105849.	5.3	152

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19	One-step wet-chemical synthesis of ternary ZnO/CuO/Co ₃ O ₄ nanoparticles for sensitive and selective melamine sensor development. <i>New Journal of Chemistry</i> , 2019, 43, 4849-4858.	1.4	149
20	Detection of uric acid based on doped ZnO/Ag ₂ O/Co ₃ O ₄ nanoparticle loaded glassy carbon electrode. <i>New Journal of Chemistry</i> , 2019, 43, 8651-8659.	1.4	148
21	Assessment of clean H ₂ energy production from water using novel silicon photocatalyst. <i>Journal of Cleaner Production</i> , 2020, 244, 118805.	4.6	148
22	Studies on design of heterogeneous catalysts for biodiesel production. <i>Chemical Engineering Research and Design</i> , 2013, 91, 131-144.	2.7	143
23	Transesterification of <i>Jatropha curcas</i> crude oil to biodiesel on calcium lanthanum mixed oxide catalyst: Effect of stoichiometric composition. <i>Energy Conversion and Management</i> , 2014, 88, 1290-1296.	4.4	137
24	Sustainable composite sensor material for optical cadmium(II) monitoring and capturing from wastewater. <i>Microchemical Journal</i> , 2021, 161, 105800.	2.3	123
25	Production of biodiesel from non-edible <i>Jatropha curcas</i> oil via transesterification using Bi ₂ O ₃ –La ₂ O ₃ catalyst. <i>Energy Conversion and Management</i> , 2014, 88, 1257-1262.	4.4	122
26	Algae derived biodiesel using nanocatalytic transesterification process. <i>Chemical Engineering Research and Design</i> , 2016, 111, 362-370.	2.7	120
27	Production of ultra-high concentration calcium alginate beads with prolonged dissolution profile. <i>RSC Advances</i> , 2015, 5, 36687-36695.	1.7	110
28	Advances in solid-catalytic and non-catalytic technologies for biodiesel production. <i>Energy Conversion and Management</i> , 2014, 88, 1200-1218.	4.4	95
29	Production of biodiesel from palm oil using modified Malaysian natural dolomites. <i>Energy Conversion and Management</i> , 2014, 78, 738-744.	4.4	91
30	Preparation of Na ₂ O supported CNTs nanocatalyst for efficient biodiesel production from waste-oil. <i>Energy Conversion and Management</i> , 2020, 205, 112445.	4.4	86
31	Calcium alginate hydrogel beads with high stiffness and extended dissolution behaviour. <i>European Polymer Journal</i> , 2016, 75, 343-353.	2.6	85
32	Photocatalysis for Organic Wastewater Treatment: From the Basis to Current Challenges for Society. <i>Catalysts</i> , 2020, 10, 1260.	1.6	82
33	Ethanol sensor development based on ternary-doped metal oxides (CdO/ZnO/Yb ₂ O ₃) nanosheets for environmental safety. <i>RSC Advances</i> , 2017, 7, 22627-22639.	1.7	77
34	Fabrication of selective chemical sensor with ternary ZnO/SnO ₂ /Yb ₂ O ₃ nanoparticles. <i>Talanta</i> , 2017, 170, 215-223.	2.9	76
35	Production of biodiesel from mixed waste vegetable oils using Ferric hydrogen sulphate as an effective reusable heterogeneous solid acid catalyst. <i>Applied Catalysis A: General</i> , 2013, 456, 182-187.	2.2	75
36	Ultrathin Assemblies of Porous Array for Enhanced H ₂ Evolution. <i>Scientific Reports</i> , 2020, 10, 2324.	1.6	75

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37	Transesterification of <i>Nannochloropsis oculata</i> microalga's oil to biodiesel using calcium methoxide catalyst. <i>Energy</i> , 2014, 78, 63-71.	4.5	73
38	Transesterification activity and characterization of natural CaO derived from waste venus clam (<i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 7</i>) and Design, 2017, 105, 303-315.	2.7	72
39	Activated Carbon from Various Agricultural Wastes by Chemical Activation with KOH: Preparation and Characterization. <i>Journal of Biobased Materials and Bioenergy</i> , 2013, 7, 708-714.	0.1	71
40	Biodiesel synthesis over millimetric γ -Al ₂ O ₃ /KI catalyst. <i>Energy</i> , 2015, 89, 965-973.	4.5	69
41	Pyro-lytic de-oxygenation of waste cooking oil for green diesel production over Ag ₂ O ₃ -La ₂ O ₃ /AC nano-catalyst. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019, 137, 171-184.	2.6	65
42	Sustainable approach for wastewater treatment using microbial fuel cells and green energy generation â€” A comprehensive review. <i>Journal of Molecular Liquids</i> , 2021, 344, 117795.	2.3	65
43	Sustainable energy generation from textile biowaste and its challenges: A comprehensive review. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 157, 112051.	8.2	64
44	Transesterification of palm oil using KF and NaNO ₃ catalysts supported on spherical millimetric γ -Al ₂ O ₃ . <i>Renewable Energy</i> , 2013, 59, 23-29.	4.3	62
45	A Review on Thermal Conversion of Plant Oil (Edible and Inedible) into Green Fuel Using Carbon-Based Nanocatalyst. <i>Catalysts</i> , 2019, 9, 350.	1.6	62
46	Effective synthesis of biodiesel from <i>Jatropha curcas</i> oil using betaine assisted nanoparticle heterogeneous catalyst from eggshell of <i>Gallus domesticus</i> . <i>Renewable Energy</i> , 2017, 111, 892-905.	4.3	60
47	Introducing the novel composite photocatalysts to boost the performance of hydrogen (H ₂) production. <i>Journal of Cleaner Production</i> , 2021, 313, 127909.	4.6	57
48	Functionalized layered double hydroxides composite bio-adsorbent for efficient copper(II) ion encapsulation from wastewater. <i>Journal of Environmental Management</i> , 2021, 300, 113782.	3.8	57
49	Energy security in Bangladesh perspectiveâ€”An assessment and implication. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 32, 154-171.	8.2	56
50	Hydrothermal effect on synthesis, characterization and catalytic properties of calcium methoxide for biodiesel production from crude <i>Jatropha curcas</i> . <i>RSC Advances</i> , 2015, 5, 4266-4276.	1.7	56
51	Wet-chemically prepared low-dimensional ZnO/Al ₂ O ₃ /Cr ₂ O ₃ nanoparticles for xanthine sensor development using an electrochemical method. <i>RSC Advances</i> , 2018, 8, 12562-12572.	1.7	56
52	Methoxy-functionalized mesostructured stable carbon catalysts for effective biodiesel production from non-edible feedstock. <i>Chemical Engineering Journal</i> , 2018, 334, 1851-1868.	6.6	54
53	Study on Emission and Performance of Diesel Engine Using Castor Biodiesel. <i>Journal of Chemistry</i> , 2014, 2014, 1-8.	0.9	53
54	Biodiesel from low cost palm stearin using metal doped methoxide solid catalyst. <i>Industrial Crops and Products</i> , 2015, 76, 281-289.	2.5	53

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55	3,4-Diaminotoluene sensor development based on hydrothermally prepared MnCoxOy nanoparticles. <i>Talanta</i> , 2018, 176, 17-25.	2.9	51
56	Novel micro-structured carbon-based adsorbents for notorious arsenic removal from wastewater. <i>Chemosphere</i> , 2021, 272, 129653.	4.2	51
57	Energy challenges for a clean environment: Bangladesh's experience. <i>Energy Reports</i> , 2021, 7, 3373-3389.	2.5	51
58	Advances in physiochemical and biotechnological approaches for sustainable metal recovery from e-waste: A critical review. <i>Journal of Cleaner Production</i> , 2021, 323, 129015.	4.6	50
59	Improving valuable metal ions capturing from spent Li-ion batteries with novel materials and approaches. <i>Journal of Molecular Liquids</i> , 2021, 338, 116703.	2.3	50
60	Towards the robust hydrogen (H ₂) fuel production with niobium complexes-A review. <i>Journal of Cleaner Production</i> , 2021, 318, 128439.	4.6	50
61	A novel catalytic method for the synthesis of spherical aragonite nanoparticles from cockle shells. <i>Powder Technology</i> , 2013, 246, 434-440.	2.1	49
62	The effect of low air-to-liquid mass flow rate ratios on the size, size distribution and shape of calcium alginate particles produced using the atomization method. <i>Journal of Food Engineering</i> , 2012, 108, 297-303.	2.7	48
63	Synthesis and characterization of millimetric gamma alumina spherical particles by oil drop granulation method. <i>Journal of Porous Materials</i> , 2012, 19, 807-817.	1.3	45
64	Extraction and Characterization of γ -Alumina from Waste Aluminium Dross. <i>Waste and Biomass Valorization</i> , 2017, 8, 321-327.	1.8	45
65	A snapshot of coal-fired power generation in Bangladesh: A demand-supply outlook. <i>Natural Resources Forum</i> , 2021, 45, 157-182.	1.8	43
66	Text Similarity Using Google Tri-grams. <i>Lecture Notes in Computer Science</i> , 2012, , 312-317.	1.0	34
67	In-situ Glycine Sensor Development Based ZnO/Al ₂ O ₃ /Cr ₂ O ₃ Nanoparticles. <i>ChemistrySelect</i> , 2018, 3, 11460-11468.	0.7	33
68	Sucrose-derived catalytic biodiesel synthesis from low cost palm fatty acid distillate. <i>Chemical Engineering Research and Design</i> , 2015, 95, 126-135.	2.7	32
69	Enhancing the sorption performance of surfactant-assisted CaO nanoparticles. <i>RSC Advances</i> , 2014, 4, 65127-65136.	1.7	31
70	Screening of solid base catalysts on palm oil based biolubricant synthesis. <i>Journal of Cleaner Production</i> , 2017, 148, 441-451.	4.6	30
71	SiO ₂ -Rich Sugar Cane Bagasse Ash Catalyst for Transesterification of Palm Oil. <i>Bioenergy Research</i> , 2020, 13, 986-997.	2.2	29
72	Functional novel ligand based palladium(II) separation and recovery from e-waste using solvent-ligand approach. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 632, 127767.	2.3	29

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73	Biodiesel synthesis from photoautotrophic cultivated oleaginous microalgae using a sand dollar catalyst. RSC Advances, 2015, 5, 47140-47152.	1.7	28
74	A Short Review on Catalyst, Feedstock, Modernised Process, Current State and Challenges on Biodiesel Production. Catalysts, 2021, 11, 1261.	1.6	28
75	Screening of modified CaO-based catalysts with a series of dopants for the supercritical water gasification of empty palm fruit bunches to produce hydrogen. RSC Advances, 2015, 5, 36798-36808.	1.7	26
76	Bio-oil production via catalytic solvolysis of biomass. RSC Advances, 2017, 7, 7820-7830.	1.7	26
77	Synthesis of structured carbon nanorods for efficient hydrogen storage. Materials Letters, 2016, 179, 57-60.	1.3	25
78	Recent advancements and opportunities of decorated graphitic carbon nitride toward solar fuel production and beyond. Sustainable Energy and Fuels, 2021, 5, 4457-4511.	2.5	25
79	High Coke-Resistance Pt/Mg _{1-x} Ni _x O Catalyst for Dry Reforming of Methane. PLoS ONE, 2016, 11, e0145862.	1.1	25
80	Towards energy sustainability: Bangladesh perspectives. Energy Strategy Reviews, 2021, 38, 100738.	3.3	25
81	Glycerolysis of palm fatty acid distillate for biodiesel feedstock under different reactor conditions. Fuel, 2016, 174, 133-139.	3.4	21
82	Evaluation of mechanical, morphological, and biodegradable properties of hybrid natural fiber polymer nanocomposites. Polymer Composites, 2017, 38, 583-587.	2.3	21
83	Applications of corpus-based semantic similarity and word segmentation to database schema matching. VLDB Journal, 2008, 17, 1293-1320.	2.7	18
84	Real-word spelling correction using Google Web 1T n-gram with backoff. , 2009, , .		18
85	Development of a procedure for spherical alginate- γ -boehmite particle preparation. Advanced Powder Technology, 2013, 24, 1119-1125.	2.0	17
86	Recent progress in Si hetero-junction solar cell: A comprehensive review. Renewable and Sustainable Energy Reviews, 2018, 82, 1990-2004.	8.2	17
87	Real-word spelling correction using Google web 1Tn-gram data set. , 2009, , .		16
88	Helpfulness Prediction of Online Product Reviews. , 2018, , .		16
89	Facile Recoverable and Reusable Macroscopic Alumina Supported Ni-based Catalyst for Efficient Hydrogen Production. Scientific Reports, 2019, 9, 16358.	1.6	16
90	In-situ operando and ex-situ study on light hydrocarbon-like-diesel and catalyst deactivation kinetic and mechanism study during deoxygenation of sludge oil. Chemical Engineering Journal, 2022, 429, 132206.	6.6	14

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91	Assessing energy diversification policy and sustainability: Bangladesh standpoints. Energy Strategy Reviews, 2022, 40, 100803.	3.3	12
92	Optimal design of an activated sludge plant: theoretical analysis. Applied Water Science, 2013, 3, 375-386.	2.8	11
93	Studies on the rheological properties of aluminium oxihydroxide (boehmite) colloidal suspension. Ceramics International, 2014, 40, 3779-3783.	2.3	10
94	An alternative electrochemical approach for toluene detection with ZnO/MgO/Cr ₂ O ₃ nanofibers on a glassy carbon electrode for environmental monitoring. RSC Advances, 2020, 10, 44641-44653.	1.7	10
95	Seeded Growth Route to Noble Calcium Carbonate Nanocrystal. PLoS ONE, 2015, 10, e0144805.	1.1	9
96	Selective detection of ascorbic acid with wet-chemically prepared CdO/SnO ₂ /V ₂ O ₅ micro-sheets by electrochemical approach. SN Applied Sciences, 2020, 2, 1.	1.5	9
97	Similarity-Based Support for Text Reuse in Technical Writing. , 2015, , .		8
98	An unsupervised approach to preposition error correction. , 2010, , .		6
99	Using Google n-Grams to Expand Word-Emotion Association Lexicon. Lecture Notes in Computer Science, 2013, , 137-148.	1.0	6
100	Rheological behavior of coir fiber-filled polypropylene composites at constant shear stress. Polymer Composites, 2015, 36, 51-61.	2.3	5
101	Scheduling the blended solution as industrial CO ₂ absorber in separation process by back-propagation artificial neural networks. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 150, 892-901.	2.0	5
102	Rheology and Gelling Behavior of Boehmite Sols. Journal of Applied Sciences, 2011, 11, 2327-2333.	0.1	4
103	Using Various Indexing Schemes and Multiple Translations in the CL-SR Task at CLEF 2005. Lecture Notes in Computer Science, 2006, , 760-768.	1.0	4
104	Selective Deoxygenation of Sludge Palm Oil into Diesel Range Fuel over Mn-Mo Supported on Activated Carbon Catalyst. Catalysts, 2022, 12, 566.	1.6	4
105	Stabilization of grid connected wind power system by using ECS. , 2015, , .		3
106	Managing the Google Web 1T 5-gram data set. , 2009, , .		2
107	Correcting Different Types of Errors in Texts. Lecture Notes in Computer Science, 2011, , 192-203.	1.0	2
108	Efficient Computation of Co-occurrence Based Word Relatedness. , 2015, , .		2

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109	f: Phrase Relatedness Function Using Overlapping Bi-gram Context. Lecture Notes in Computer Science, 2016, , 137-149.	1.0	2
110	Predicting Domain Specific Personal Attitudes and Sentiment. International Journal of Semantic Computing, 2020, 14, 199-222.	0.4	2
111	Predicting Personal Attitudes Using Contextual Microblog Activity Logs. , 2020, , .		2
112	TrWP: Text Relatedness using Word and Phrase Relatedness. , 2015, , .		2
113	Binary metal-doped methoxide catalyst for biodiesel production from palm stearin. Research on Chemical Intermediates, 2016, 42, 1943-1963.	1.3	1
114	Development of Millimetric Particle for Biodiesel Production. , 2017, , 65-97.		1
115	Improving text relatedness by incorporating phrase relatedness with word relatedness. Computational Intelligence, 2018, 34, 939-966.	2.1	1
116	Nonuniform language in technical writing: Detection and correction. Natural Language Engineering, 2021, 27, 293-314.	2.1	1
117	Non-uniform Language Detection in Technical Writing. , 2016, , .		1
118	DalGTM at SemEval-2016 Task 1: Importance-Aware Compositional Approach to Short Text Similarity. , 2016, , .		1
119	When was Macbeth Written? Mapping Book to Time. Lecture Notes in Computer Science, 2015, , 73-84.	1.0	1
120	Efficient Parallelization of the Google Trigram Method for Document Relatedness Computation. , 2015, , .		0
121	Stability enhancement of wind power system by using energy capacitor system. , 2015, , .		0
122	Modeling of photodegradation process to remove the higher concentration of environmental pollution. Desalination and Water Treatment, 2015, , 1-11.	1.0	0
123	Production of Biodiesel Using Spherical Millimetric Catalyst. , 2017, , 99-115.		0
124	Integrating Global Attention for Pairwise Text Comparison. , 2018, , .		0
125	Photocatalytic Hydrogen from Water Over Semiconductors. Green Energy and Technology, 2022, , 175-194.	0.4	0
126	How Document Properties Affect Document Relatedness Measures. Lecture Notes in Computer Science, 2014, , 392-403.	1.0	0

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127	Do Important Words in Bag-of-Words Model of Text Relatedness Help?. Lecture Notes in Computer Science, 2015, , 569-577.	1.0	0