

Akil Ahmad

List of Publications by Citations

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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.

90
papers

2,281
citations

24
h-index

46
g-index

95
ext. papers

2,955
ext. citations

3.7
avg, IF

5.63
L-index

#	Paper	IF	Citations
90	Recent advances in new generation dye removal technologies: novel search for approaches to reprocess wastewater. <i>RSC Advances</i> , 2015 , 5, 30801-30818	3.7	573
89	Recent Advances in Metal Decorated Nanomaterials and Their Various Biological Applications: A Review. <i>Frontiers in Chemistry</i> , 2020 , 8, 341	5	166
88	Essential Oils: Extraction Techniques, Pharmaceutical And Therapeutic Potential - A Review. <i>Current Drug Metabolism</i> , 2018 , 19, 1100-1110	3.5	109
87	Recent advances in iron complexes as potential anticancer agents. <i>New Journal of Chemistry</i> , 2016 , 40, 1063-1090	3.6	96
86	New generation Amberlite XAD resin for the removal of metal ions: A review. <i>Journal of Environmental Sciences</i> , 2015 , 31, 104-23	6.4	70
85	Recent Advances in Anodes for Microbial Fuel Cells: An Overview. <i>Materials</i> , 2020 , 13,	3.5	70
84	Role of Nanotechnology for Design and Development of Cosmeceutical: Application in Makeup and Skin Care. <i>Frontiers in Chemistry</i> , 2019 , 7, 739	5	64
83	Outlook on the Role of Microbial Fuel Cells in Remediation of Environmental Pollutants with Electricity Generation. <i>Catalysts</i> , 2020 , 10, 819	4	64
82	Adsorption of Rhodamine B dye from aqueous solution onto acid treated banana peel: Response surface methodology, kinetics and isotherm studies. <i>PLoS ONE</i> , 2019 , 14, e0216878	3.7	63
81	Phosphonium Salts in Asymmetric Catalysis: A Journey in a Decade's Extensive Research Work. <i>Advanced Synthesis and Catalysis</i> , 2017 , 359, 3676-3706	5.6	58
80	Blocking mechanism of PES membrane during ultrafiltration of POME. <i>Journal of Industrial and Engineering Chemistry</i> , 2015 , 21, 182-188	6.3	44
79	Statistical optimization for adsorption of Rhodamine B dye from aqueous solutions. <i>Journal of Molecular Liquids</i> , 2019 , 281, 48-58	6	44
78	Characterization of a novel chelating resin of enhanced hydrophilicity and its analytical utility for preconcentration of trace metal ions. <i>Talanta</i> , 2010 , 81, 1772-80	6.2	43
77	Modified graphene oxide anode: A bioinspired waste material for bioremediation of Pb ²⁺ with energy generation through microbial fuel cells. <i>Chemical Engineering Journal</i> , 2021 , 417, 128052	14.7	42
76	A glimpse into the microbial fuel cells for wastewater treatment with energy generation	214, 379-389	40
75	Alteration of polyethersulphone membranes through UV-induced modification using various materials: A brief review. <i>Arabian Journal of Chemistry</i> , 2017 , 10, S1821-S1834	5.9	38
74	Insights into the Current Trends in the Utilization of Bacteria for Microbially Induced Calcium Carbonate Precipitation. <i>Materials</i> , 2020 , 13,	3.5	37

73	Recent Advances in Drug Delivery of Polymeric Nano-Micelles. <i>Current Drug Metabolism</i> , 2017 , 18, 16-29	3.5	34
72	Chemically oxidized pineapple fruit peel for the biosorption of heavy metals from aqueous solutions. <i>Desalination and Water Treatment</i> , 2016 , 57, 6432-6442		33
71	Characterization and Application of 1-(2-Pyridylazo)-2-naphthol Functionalized Amberlite XAD-4 for Preconcentration of Trace Metal Ions in Real Matrices. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 5553-5561	2.8	32
70	Molecular mechanisms of drug photodegradation and photosensitization. <i>Current Pharmaceutical Design</i> , 2016 , 22, 768-82	3.3	32
69	Synthesis of Mn-doped TiO ₂ by novel route and photocatalytic mineralization/intermediate studies of organic pollutants. <i>Research on Chemical Intermediates</i> , 2019 , 45, 2927-2945	2.8	30
68	Enrichment of Eucalyptus oil nanoemulsion by micellar nanotechnology: transdermal analgesic activity using hot plate test in rats. <i>Scientific Reports</i> , 2019 , 9, 13678	4.9	26
67	The efficiency of Amberlite XAD-4 resin loaded with 1-(2-pyridylazo)-2-naphthol in preconcentration and separation of some toxic metal ions by flame atomic absorption spectrometry. <i>Environmental Monitoring and Assessment</i> , 2011 , 175, 201-12	3.1	25
66	Adsorption of cadmium and lead from palm oil mill effluent using bone-composite: optimisation and isotherm studies. <i>International Journal of Environmental Analytical Chemistry</i> , 2019 , 99, 707-725	1.8	24
65	Reverse micelle Extraction of Antibiotics using an Eco-friendly Sophorolipids Biosurfactant. <i>Scientific Reports</i> , 2018 , 8, 477	4.9	24
64	Magnetic Fe ₃ O ₄ @poly(methacrylic acid) particles for selective preconcentration of trace arsenic species. <i>Mikrochimica Acta</i> , 2017 , 184, 2007-2014	5.8	22
63	Preparation, Characterization of a Novel Chelating Resin Functionalized with o-Hydroxybenzamide and Its Application for Preconcentration of Trace Metal Ions. <i>Clean - Soil, Air, Water</i> , 2012 , 40, 54-65	1.6	22
62	Application of microbial fuel cells energized by oil palm trunk sap (OPTS) to remove the toxic metal from synthetic wastewater with generation of electricity. <i>Applied Nanoscience (Switzerland)</i> , 2021 , 11, 1949-1961	3.3	22
61	Characterization of a chelating resin functionalized via azo spacer and its analytical applicability for the determination of trace metal ions in real matrices. <i>Journal of Applied Polymer Science</i> , 2012 , 123, 3448-3458	2.9	21
60	A newly developed salicylanilide functionalized Amberlite XAD-16 chelating resin for use in preconcentration and determination of trace metal ions from environmental and biological samples. <i>Analytical Methods</i> , 2011 , 3, 2041	3.2	21
59	The effect of wastewater pretreatment on nanofiltration membrane performance. <i>Journal of Water Reuse and Desalination</i> , 2017 , 7, 45-52	2.6	19
58	Preconcentration of metal ions through chelation on a synthesized resin containing O, O donor atoms for quantitative analysis of environmental and biological samples. <i>Environmental Monitoring and Assessment</i> , 2013 , 185, 2691-704	3.1	19
57	Optimization of process variables using response surface methodology for tocopherol extraction from Roselle seed oil by supercritical carbon dioxide. <i>Industrial Crops and Products</i> , 2020 , 143, 111886	5.9	18
56	Application of rotten rice as a substrate for bacterial species to generate energy and the removal of toxic metals from wastewater through microbial fuel cells. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 62816-62827	5.1	17

55	Degradation of organic pollutants using metal-doped TiO ₂ photocatalysts under visible light: a comparative study 161, 275-282		16
54	Carbon-based nanocomposites in solid-state hydrogen storage technology: An overview. <i>International Journal of Energy Research</i> , 2020 , 44, 11044-11058	4.5	15
53	Flame Atomic Absorption Spectrometric Determination of Trace Metal Ions in Environmental and Biological Samples After Preconcentration on a Newly Developed Amberlite XAD-16 Chelating Resin Containing p-Aminobenzene Sulfonic Acid. <i>Journal of AOAC INTERNATIONAL</i> , 2015 , 98, 165-75	1.7	14
52	Toxicology and Environmental Application of Carbon Nanocomposite. <i>Green Energy and Technology</i> , 2021 , 1-18	0.6	12
51	Preparation, characterization, and application of modified carbonized lignin as an anode for sustainable microbial fuel cell. <i>Chemical Engineering Research and Design</i> , 2021 , 155, 49-60	5.5	12
50	The potential hazards of <i>Aspergillus</i> sp. in foods and feeds, and the role of biological treatment: a review. <i>Journal of Microbiology</i> , 2014 , 52, 807-18	3	11
49	A Glimpse into the Extraction Methods of Active Compounds from Plants. <i>Critical Reviews in Analytical Chemistry</i> , 2020 , 1-30	5.2	11
48	Utilization of green sophorolipids biosurfactant in reverse micelle extraction of antibiotics: Kinetic and mass transfer studies. <i>Journal of Molecular Liquids</i> , 2019 , 276, 225-232	6	11
47	Carbon Based Polymeric Nanocomposites for Dye Adsorption: Synthesis, Characterization, and Application. <i>Polymers</i> , 2021 , 13,	4.5	10
46	Synthesis and characterization of GO-Ag nanocomposite for removal of malachite dye from aqueous solution. <i>Materials Today: Proceedings</i> , 2021 , 47, 1359-1365	1.4	8
45	Use of Supercritical CO ₂ and R134a as Solvent for Extraction of b-Carotene and a-Tocopherols from Crude Palm Oil. <i>Asian Journal of Chemistry</i> , 2014 , 26, 5911-5916	0.4	7
44	Enhancement of biosorption capacity of cyanobacterial strain to remediate heavy metals 165, 244-252		7
43	EQUILIBRIUM AND KINETIC STUDIES OF METHYL ORANGE ADSORPTION ONTO CHEMICALLY TREATED OIL PALM TRUNK POWDER. <i>Environmental Engineering and Management Journal</i> , 2018 , 17, 2933-2943	0.6	6
42	Survey of graphene-based nanotechnologies 2019 , 23-39		5
41	Adsorption of pollutants from palm oil mill effluent using natural adsorbents: optimization and isotherm studies 169, 181-190		5
40	Heavy Metals Removal Using Carbon Based Nanocomposites. <i>Green Energy and Technology</i> , 2021 , 249-2746		5
39	New generation graphene oxide for removal of polycyclic aromatic hydrocarbons 2019 , 241-266		4
38	Antimicrobial activity of graphene-based nanomaterials 2019 , 293-314		4

37	Aloe vera biomass containing cellulosic moieties used as sustainable adsorbents for the removal of crystal violet dye from aqueous solution170, 337-348		4
36	Polyaniline-Based Materials for Supercapacitors 2021 , 113-130		4
35	Oxidation of food waste as an organic substrate in a single chamber microbial fuel cell to remove the pollutant with energy generation. <i>Sustainable Energy Technologies and Assessments</i> , 2022 , 52, 102284-7		4
34	Recent Advances in Chitosan-Based Films for Novel Biosensor 2018 , 137-161		3
33	Recent Advances in Nanofiltration Membrane Techniques for Separation of Toxic Metals from Wastewater 2018 , 477-500		3
32	Isolation and characterization of oil-degrading bacteria from marine sediment environment136, 282-289		3
31	Isolation and characterization of mercury-resistant bacteria from industrial wastewater128-133		3
30	Nanocarbon composites for detection of volatile organic compounds 2019 , 401-419		2
29	Synthesis of Ag@Polycarbazole Nanocomposite using Ferric Acetate as an Oxidant. <i>Asian Journal of Chemistry</i> , 2020 , 32, 1069-1074	0.4	2
28	Self Healing Materials and Conductivity 2018 , 163-180		2
27	Recent advances in polyaniline-based nanocomposites as potential adsorbents for trace metal ions 2018 , 597-615		2
26	Synthesis of metal oxideBased nanocomposites for energy storage application 2022 , 611-635		2
25	Use of Carbon Nanotubes as Sorbents for Heavy Metal Remediation from Wastewater 2018 , 331-357		2
24	. <i>International Journal of Pharmaceutical Sciences and Research</i> , 2018 , 9,	1.8	2
23	Comparison of Selected Journal Quality Indicators of Analytical Chemistry Journals. <i>SRELS Journal of Information Management</i> , 2017 , 54, 175	0.1	2
22	Sustainable Durio zibethinus-Derived Biosorbents for Congo Red Removal from Aqueous Solution: Statistical Optimization, Isotherms and Mechanism Studies. <i>Sustainability</i> , 2021 , 13, 13264	3.6	2
21	Impacts of Climate Change on Coastal Communities. <i>Advances in Environmental Engineering and Green Technologies Book Series</i> , 2020 , 42-59	0.4	2
20	Recent Advancement in Wastewater Decontamination Technology 2020 , 1-22		2

19	Optimization of the supercritical carbon dioxide extraction of <i>Quercus infectoria</i> galls extracts and its bioactivities. <i>Journal of Food Processing and Preservation</i> , 2021 , 45, e15156	2.1	2
18	Synthesis and characterization of Ceria incorporated Nickel oxide nanocomposite for promising degradation of methylene blue via photocatalysis. <i>International Journal of Environmental Science and Technology</i> , 2021 , 1	3.3	2
17	Photodegradation and In Silico Molecular Docking Study of a Diuretic Drug: Clopamide.. <i>ACS Omega</i> , 2022 , 7, 13870-13877	3.9	2
16	An overview of porous graphene nanomaterials for wastewater treatment 2019 , 389-411		1
15	Kinetic studies on the potential use of citrus-based green and low-cost demulsifying agents for the oil-in-water emulsions treatment. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 10, 107127	6.8	1
14	Nanotechnology: A Boost for the Urgently Needed Second Green Revolution in Indian Agriculture. <i>Nanotechnology in the Life Sciences</i> , 2020 , 15-33	1.1	1
13	Highly Effective Cow Bone Based Biocomposite for the Sequestration of Organic Pollutant Parameter from Palm Oil Mill Effluent in a Fixed Bed Column Adsorption System.. <i>Polymers</i> , 2021 , 14,	4.5	1
12	Introduction to ionic liquids and their environment-friendly applications 2022 , 1-15		0
11	Trioctylammonium-based Ionic liquids for metal ions Extraction: Synthesis, characterization and application. <i>Journal of Molecular Liquids</i> , 2021 , 342, 117534	6	0
10	Nanocomposite Materials as Electrode Materials in Microbial Fuel Cells for the Removal of Water Pollutants 2020 , 213-235		0
9	Survey of nanotechnology in beauty products development 2022 , 13-25		0
8	Apparent Molal Volume and Compressibility of Glucose and Maltose at Different Temperatures in Lysozyme Solution. <i>Arabian Journal for Science and Engineering</i> , 2015 , 40, 3001-3005		
7	Environmental toxicity and biodegradability of ionic liquids 2022 , 45-60		
6	Impacts of Climate Change on Coastal Communities 2022 , 1659-1671		
5	Applications of Supercritical Carbon Dioxide in the Rubber Industry. <i>Nanotechnology in the Life Sciences</i> , 2020 , 199-218	1.1	
4	A Review of Agricultural Solid Waste Materials as Potential Adsorbents for Copper Ions from Water and Wastewater 2017 , 197-222		
3	The Potential Use of Biosurfactants in Cosmetics and Dermatological Products 2021 , 397-421		
2	Chitosan-based nanocomposites for gene delivery: Application and future perspectives 2021 , 245-262		

- 1 Biosurfactants Based Nano Micelles for Extraction of Biomolecules. *Nanotechnology in the Life Sciences*, **2021**, 391-422 1.1