

# Akil Ahmad

## List of Publications by Year in Descending Order

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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	Introduction to ionic liquids and their environment-friendly applications <b>2022</b> , 1-15		0
89	Environmental toxicity and biodegradability of ionic liquids <b>2022</b> , 45-60		
88	Synthesis of metal oxideBased nanocomposites for energy storage application <b>2022</b> , 611-635		2
87	Impacts of Climate Change on Coastal Communities <b>2022</b> , 1659-1671		
86	Kinetic studies on the potential use of citrus-based green and low-cost demulsifying agents for the oil-in-water emulsionsRtreatment. <i>Journal of Environmental Chemical Engineering</i> , <b>2022</b> , 10, 107127	6.8	1
85	Survey of nanotechnology in beauty products development <b>2022</b> , 13-25		0
84	Photodegradation and In Silico Molecular Docking Study of a Diuretic Drug: Clopamide.. <i>ACS Omega</i> , <b>2022</b> , 7, 13870-13877	3.9	2
83	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> , <b>2022</b> , 52, 102282-7	4.7	4
82	Sustainable Durio zibethinus-Derived Biosorbents for Congo Red Removal from Aqueous Solution: Statistical Optimization, Isotherms and Mechanism Studies. <i>Sustainability</i> , <b>2021</b> , 13, 13264	3.6	2
81	Polyaniline-Based Materials for Supercapacitors <b>2021</b> , 113-130		4
80	Toxicology and Environmental Application of Carbon Nanocomposite. <i>Green Energy and Technology</i> , <b>2021</b> , 1-18	0.6	12
79	Heavy Metals Removal Using Carbon Based Nanocomposites. <i>Green Energy and Technology</i> , <b>2021</b> , 249-2746	4.6	5
78	The Potential Use of Biosurfactants in Cosmetics and Dermatological Products <b>2021</b> , 397-421		
77	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> , <b>2021</b> , 11, 1949-1961	3.3	22
76	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> , <b>2021</b> , 28, 62816-62827	5.1	17
75	Modified graphene oxide anode: A bioinspired waste material for bioremediation of Pb <sup>2+</sup> with energy generation through microbial fuel cells. <i>Chemical Engineering Journal</i> , <b>2021</b> , 417, 128052	14.7	42
74	Optimization of the supercritical carbon dioxide extraction of Quercus infectoria galls extracts and its bioactivities. <i>Journal of Food Processing and Preservation</i> , <b>2021</b> , 45, e15156	2.1	2

73	Chitosan-based nanocomposites for gene delivery: Application and future perspectives <b>2021</b> , 245-262		
72	Carbon Based Polymeric Nanocomposites for Dye Adsorption: Synthesis, Characterization, and Application. <i>Polymers</i> , <b>2021</b> , 13,	4.5	10
71	Biosurfactants Based Nano Micelles for Extraction of Biomolecules. <i>Nanotechnology in the Life Sciences</i> , <b>2021</b> , 391-422	1.1	
70	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> , <b>2021</b> , 1	3.3	2
69	Preparation, characterization, and application of modified carbonized lignin as an anode for sustainable microbial fuel cell. <i>Chemical Engineering Research and Design</i> , <b>2021</b> , 155, 49-60	5.5	12
68	Trioctylammonium-based Ionic liquids for metal ions Extraction: Synthesis, characterization and application. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 342, 117534	6	0
67	Synthesis and characterization of GO-Ag nanocomposite for removal of malachite dye from aqueous solution. <i>Materials Today: Proceedings</i> , <b>2021</b> , 47, 1359-1365	1.4	8
66	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> , <b>2021</b> , 14,	4.5	1
65	Recent Advances in Anodes for Microbial Fuel Cells: An Overview. <i>Materials</i> , <b>2020</b> , 13,	3.5	70
64	Synthesis of Ag@Polycarbazole Nanocomposite using Ferric Acetate as an Oxidant. <i>Asian Journal of Chemistry</i> , <b>2020</b> , 32, 1069-1074	0.4	2
63	Recent Advances in Metal Decorated Nanomaterials and Their Various Biological Applications: A Review. <i>Frontiers in Chemistry</i> , <b>2020</b> , 8, 341	5	166
62	Carbon-based nanocomposites in solid-state hydrogen storage technology: An overview. <i>International Journal of Energy Research</i> , <b>2020</b> , 44, 11044-11058	4.5	15
61	Impacts of Climate Change on Coastal Communities. <i>Advances in Environmental Engineering and Green Technologies Book Series</i> , <b>2020</b> , 42-59	0.4	2
60	Applications of Supercritical Carbon Dioxide in the Rubber Industry. <i>Nanotechnology in the Life Sciences</i> , <b>2020</b> , 199-218	1.1	
59	Nanotechnology: A Boost for the Urgently Needed Second Green Revolution in Indian Agriculture. <i>Nanotechnology in the Life Sciences</i> , <b>2020</b> , 15-33	1.1	1
58	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> , <b>2020</b> , 143, 111886	5.9	18
57	A Glimpse into the Extraction Methods of Active Compounds from Plants. <i>Critical Reviews in Analytical Chemistry</i> , <b>2020</b> , 1-30	5.2	11
56	Insights into the Current Trends in the Utilization of Bacteria for Microbially Induced Calcium Carbonate Precipitation. <i>Materials</i> , <b>2020</b> , 13,	3.5	37

55	Outlook on the Role of Microbial Fuel Cells in Remediation of Environmental Pollutants with Electricity Generation. <i>Catalysts</i> , <b>2020</b> , 10, 819	4	64
54	Recent Advancement in Wastewater Decontamination Technology <b>2020</b> , 1-22		2
53	Nanocomposite Materials as Electrode Materials in Microbial Fuel Cells for the Removal of Water Pollutants <b>2020</b> , 213-235		0
52	Enrichment of Eucalyptus oil nanoemulsion by micellar nanotechnology: transdermal analgesic activity using hot plate test in ratsPassay. <i>Scientific Reports</i> , <b>2019</b> , 9, 13678	4.9	26
51	Adsorption of Rhodamine B dye from aqueous solution onto acid treated banana peel: Response surface methodology, kinetics and isotherm studies. <i>PLoS ONE</i> , <b>2019</b> , 14, e0216878	3.7	63
50	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> , <b>2019</b> , 99, 707-725	1.8	24
49	Nanocarbon composites for detection of volatile organic compounds <b>2019</b> , 401-419		2
48	Synthesis of Mn-doped TiO <sub>2</sub> by novel route and photocatalytic mineralization/intermediate studies of organic pollutants. <i>Research on Chemical Intermediates</i> , <b>2019</b> , 45, 2927-2945	2.8	30
47	Survey of graphene-based nanotechnologies <b>2019</b> , 23-39		5
46	New generation graphene oxide for removal of polycyclic aromatic hydrocarbons <b>2019</b> , 241-266		4
45	Antimicrobial activity of graphene-based nanomaterials <b>2019</b> , 293-314		4
44	An overview of porous graphene nanomaterials for wastewater treatment <b>2019</b> , 389-411		1
43	Role of Nanotechnology for Design and Development of Cosmeceutical: Application in Makeup and Skin Care. <i>Frontiers in Chemistry</i> , <b>2019</b> , 7, 739	5	64
42	Statistical optimization for adsorption of Rhodamine B dye from aqueous solutions. <i>Journal of Molecular Liquids</i> , <b>2019</b> , 281, 48-58	6	44
41	Utilization of green sophorolipids biosurfactant in reverse micelle extraction of antibiotics: Kinetic and mass transfer studies. <i>Journal of Molecular Liquids</i> , <b>2019</b> , 276, 225-232	6	11
40	Self Healing Materials and Conductivity <b>2018</b> , 163-180		2
39	Recent Advances in Chitosan-Based Films for Novel Biosensor <b>2018</b> , 137-161		3
38	Reverse micelle Extraction of Antibiotics using an Eco-friendly Sophorolipids Biosurfactant. <i>Scientific Reports</i> , <b>2018</b> , 8, 477	4.9	24

37	Recent Advances in Nanofiltration Membrane Techniques for Separation of Toxic Metals from Wastewater <b>2018</b> , 477-500		3
36	Recent advances in polyaniline-based nanocomposites as potential adsorbents for trace metal ions <b>2018</b> , 597-615		2
35	Use of Carbon Nanotubes as Sorbents for Heavy Metal Remediation from Wastewater <b>2018</b> , 331-357		2
34	. <i>International Journal of Pharmaceutical Sciences and Research</i> , <b>2018</b> , 9,	1.8	2
33	Essential Oils: Extraction Techniques, Pharmaceutical And Therapeutic Potential - A Review. <i>Current Drug Metabolism</i> , <b>2018</b> , 19, 1100-1110	3.5	109
32	EQUILIBRIUM AND KINETIC STUDIES OF METHYL ORANGE ADSORPTION ONTO CHEMICALLY TREATED OIL PALM TRUNK POWDER. <i>Environmental Engineering and Management Journal</i> , <b>2018</b> , 17, 2933-2943	0.6	6
31	Magnetic Fe <sub>3</sub> O <sub>4</sub> @poly(methacrylic acid) particles for selective preconcentration of trace arsenic species. <i>Mikrochimica Acta</i> , <b>2017</b> , 184, 2007-2014	5.8	22
30	The effect of wastewater pretreatment on nanofiltration membrane performance. <i>Journal of Water Reuse and Desalination</i> , <b>2017</b> , 7, 45-52	2.6	19
29	Phosphonium Salts in Asymmetric Catalysis: A Journey in a Decade's Extensive Research Work. <i>Advanced Synthesis and Catalysis</i> , <b>2017</b> , 359, 3676-3706	5.6	58
28	Alteration of polyethersulphone membranes through UV-induced modification using various materials: A brief review. <i>Arabian Journal of Chemistry</i> , <b>2017</b> , 10, S1821-S1834	5.9	38
27	Comparison of Selected Journal Quality Indicators of Analytical Chemistry Journals. <i>SRELS Journal of Information Management</i> , <b>2017</b> , 54, 175	0.1	2
26	Recent Advances in Drug Delivery of Polymeric Nano-Micelles. <i>Current Drug Metabolism</i> , <b>2017</b> , 18, 16-29	3.5	34
25	A Review of Agricultural Solid Waste Materials as Potential Adsorbents for Copper Ions from Water and Wastewater <b>2017</b> , 197-222		
24	Chemically oxidized pineapple fruit peel for the biosorption of heavy metals from aqueous solutions. <i>Desalination and Water Treatment</i> , <b>2016</b> , 57, 6432-6442		33
23	Recent advances in iron complexes as potential anticancer agents. <i>New Journal of Chemistry</i> , <b>2016</b> , 40, 1063-1090	3.6	96
22	Molecular mechanisms of drug photodegradation and photosensitization. <i>Current Pharmaceutical Design</i> , <b>2016</b> , 22, 768-82	3.3	32
21	Recent advances in new generation dye removal technologies: novel search for approaches to reprocess wastewater. <i>RSC Advances</i> , <b>2015</b> , 5, 30801-30818	3.7	573
20	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> , <b>2015</b> , 98, 165-75	1.7	14

19	New generation Amberlite XAD resin for the removal of metal ions: A review. <i>Journal of Environmental Sciences</i> , <b>2015</b> , 31, 104-23	6.4	70
18	Apparent Molal Volume and Compressibility of Glucose and Maltose at Different Temperatures in Lysozyme Solution. <i>Arabian Journal for Science and Engineering</i> , <b>2015</b> , 40, 3001-3005		
17	Blocking mechanism of PES membrane during ultrafiltration of POME. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2015</b> , 21, 182-188	6.3	44
16	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> , <b>2014</b> , 52, 807-18	3	11
15	Use of Supercritical CO <sub>2</sub> and R134a as Solvent for Extraction of $\beta$ -Carotene and $\alpha$ -Tocopherols from Crude Palm Oil. <i>Asian Journal of Chemistry</i> , <b>2014</b> , 26, 5911-5916	0.4	7
14	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> , <b>2013</b> , 185, 2691-704	3.1	19
13	Preparation, Characterization of a Novel Chelating Resin Functionalized with <i>o</i> -Hydroxybenzamide and Its Application for Preconcentration of Trace Metal Ions. <i>Clean - Soil, Air, Water</i> , <b>2012</b> , 40, 54-65	1.6	22
12	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> , <b>2012</b> , 123, 3448-3458	2.9	21
11	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> , <b>2011</b> , 3, 2041	3.2	21
10	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> , <b>2011</b> , 175, 201-12	3.1	25
9	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 &amp; Engineering Data</i> , <b>2010</b> , 55, 5553-5561	2.8	32
8	Characterization of a novel chelating resin of enhanced hydrophilicity and its analytical utility for preconcentration of trace metal ions. <i>Talanta</i> , <b>2010</b> , 81, 1772-80	6.2	43
7	Isolation and characterization of oil-degrading bacteria from marine sediment environment	136, 282-289	3
6	Isolation and characterization of mercury-resistant bacteria from industrial wastewater	128-133	3
5	Degradation of organic pollutants using metal-doped TiO <sub>2</sub> photocatalysts under visible light: a comparative study	161, 275-282	16
4	Enhancement of biosorption capacity of cyanobacterial strain to remediate heavy metals	165, 244-252	7
3	Adsorption of pollutants from palm oil mill effluent using natural adsorbents: optimization and isotherm studies	169, 181-190	5
2	Aloe vera biomass containing cellulosic moieties used as sustainable adsorbents for the removal of crystal violet dye from aqueous solution	170, 337-348	4

1	A glimpse into the microbial fuel cells for wastewater treatment with energy generation	214, 379-389	40
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