Achmad Syafiuddin

List of Publications by Citations

67 papers	916 citations	16 h-index	28 g-index
89 ext. papers	1,308 ext. citations	3.4 avg, IF	5.29 L-index

#	Paper	IF	Citations
67	A Review of Silver Nanoparticles: Research Trends, Global Consumption, Synthesis, Properties, and Future Challenges. *Journal of the Chinese Chemical Society*, **2017**, 64, 732-756	1.5	179
66	Silver Nanoparticles in the Water Environment in Malaysia: Inspection, characterization, removal, modeling, and future perspective. *Scientific Reports*, **2018**, 8, 986	4.9	82
65	Application of the kinetic and isotherm models for better understanding of the behaviors of silver nanoparticles adsorption onto different adsorbents. *Journal of Environmental Management*, **2018**, 218, 59-70	7.9	77
64	A Review of Rainwater Harvesting in Malaysia: Prospects and Challenges. *Water (Switzerland)*, **2018**, 10, 506	3	38
63	A review of silver nanoparticles in food packaging technologies: Regulation, methods, properties, migration, and future challenges. *Journal of the Chinese Chemical Society*, **2020**, 67, 1942-1956	1.5	29
62	Biotransformation and Detoxification of Antraquione Dye Green 3 using halophilic Hortaea sp.. *International Biodeterioration and Biodegradation*, **2019**, 140, 72-77	4.8	27
61	Biodegradation of Mordant orange-1 using newly isolated strain Trichoderma harzianum RY44 and its metabolite appraisal. *Bioprocess and Biosystems Engineering*, **2018**, 41, 621-632	3.7	27
60	Performance of small and large scales rainwater harvesting systems in commercial buildings under different reliability and future water tariff scenarios. *Science of the Total Environment*, **2018**, 636, 1171-1179	10.2	27
59	A purely green synthesis of silver nanoparticles using Carica papaya, Manihot esculenta, and Morinda citrifolia: synthesis and antibacterial evaluations. *Bioprocess and Biosystems Engineering*, **2017**, 40, 1349-1361	3.7	26
58	The current scenario and challenges of biodiesel production in Asian countries: A review. *Bioresource Technology Reports*, **2020**, 12, 100608	4.1	26
57	Physical, thermal, and mechanical properties of polypropylene composites filled with rattan nanoparticles. *Journal of Applied Research and Technology*, **2017**, 15, 386-395	1.7	25
56	Decolorization and biotransformation pathway of textile dye by Cylindrocephalum aurelium. *Bioprocess and Biosystems Engineering*, **2019**, 42, 1483-1494	3.7	22
55	Characterization of pyrene and chrysene degradation by halophilic Hortaea sp. B15. *Bioprocess and Biosystems Engineering*, **2019**, 42, 963-969	3.7	22
54	Role of anaerobic sludge digestion in handling antibiotic resistant bacteria and antibiotic resistance genes - A review. *Bioresource Technology*, **2021**, 330, 124970	11	20
53	Abundance and distribution of polycyclic aromatic hydrocarbons (PAHs) in sediments of the Mahakam River. *Marine Pollution Bulletin*, **2019**, 149, 110650	6.7	17
52	Novel Weed-Extracted Silver Nanoparticles and Their Antibacterial Appraisal against a Rare Bacterium from River and Sewage Treatment Plan. *Nanomaterials*, **2017**, 8,	5.4	16
51	Characterization of Titanium Dioxide Doped with Nitrogen and Sulfur and its Photocatalytic Appraisal for Degradation of Phenol and Methylene Blue. *Journal of the Chinese Chemical Society*, **2017**, 64, 1333-1339	1.5	16

50	Decolorization kinetics and mass transfer mechanisms of Remazol Brilliant Blue R dye mediated by different fungi. *Biotechnology Reports (Amsterdam, Netherlands)*, **2021**, 29, e00573	5.3	16
49	Silver nanoparticles adsorption by the synthetic and natural adsorbent materials: an exclusive review. *Nanotechnology for Environmental Engineering*, **2020**, 5, 1	5.1	15
48	Toward a comprehensive understanding of textiles functionalized with silver nanoparticles. *Journal of the Chinese Chemical Society*, **2019**, 66, 793-814	1.5	14
47	Removal of Silver Nanoparticles from Water Environment: Experimental, Mathematical Formulation, and Cost Analysis. *Water, Air, and Soil Pollution*, **2019**, 230, 1	2.6	12
46	Advances in developing metabolically engineered microbial platforms to produce fourth-generation biofuels and high-value biochemicals. *Bioresource Technology*, **2021**, 337, 125510	11	12
45	Recent Advances on Coagulation-Based Treatment of Wastewater: Transition from Chemical to Natural Coagulant. *Current Pollution Reports*, **2021**, 7, 379-391	7.6	10
44	Enhancement of Antibacterial Capability of Cotton Textiles Coated with TiO2SiO2/Chitosan Using Hydrophobization. *Journal of the Chinese Chemical Society*, **2017**, 64, 1347-1353	1.5	9
43	Green Synthesis of Silver Nanoparticles Using Muntingia calabura Leaf Extract and Evaluation of Antibacterial Activities. *Biointerface Research in Applied Chemistry*, **2020**, 10, 6253-6261	2.8	9
42	Exploring the potential of halotolerant bacteria for biodegradation of polycyclic aromatic hydrocarbon. *Bioprocess and Biosystems Engineering*, **2020**, 43, 2305-2314	3.7	9
41	A green deposition method of silver nanoparticles on textiles and their antifungal activity. *Biointerface Research in Applied Chemistry*, **2020**, 10, 4902-4907	2.8	8
40	Challenges and Solutions for Sustainable Groundwater Usage: Pollution Control and Integrated Management. *Current Pollution Reports*, **2020**, 6, 310-327	7.6	7
39	Properties of Oil Palm Empty Fruit Bunch-Filled Recycled Acrylonitrile Butadiene Styrene Composites: Effect of Shapes and Filler Loadings with Random Orientation. *BioResources*, **2016**, 12,	1.3	7
38	A review of polycyclic aromatic hydrocarbons and their substitutions in full-scale wastewater treatment plants. *Environmental Quality Management*, **2021**, 31, 21-37	0.8	7
37	A new green method for the synthesis of silver nanoparticles and their antibacterial activities against gram-positive and gram-negative bacteria. *Journal of the Chinese Chemical Society*, **2019**, 66, 705-712	1.5	6
36	Evaluation of the Performance of Helmet Prototypes Fabricated from Acrylonitrile Butadiene Styrene Composites Filled with Natural Resource. *Materials*, **2018**, 12,	3.5	6
35	Sticky silver nanoparticles and surface coatings of different textile fabrics stabilised by Muntingia calabura leaf extract. *SN Applied Sciences*, **2020**, 2, 1	1.8	6
34	EFFECTS OF NANOPARTICLE FILLER ON THERMO-PHYSICAL PROPERTIES OF RATTAN POWDER-FILLED POLYPROPYLENE COMPOSITES. *Jurnal Teknologi (Sciences and Engineering)*, **2015**, 77,	1.2	6
33	Enhancement of antibacterial properties of various polymers functionalized with silver nanoparticles. *Biointerface Research in Applied Chemistry*, **2020**, 10, 5592-5598	2.8	6

32	Bioremediation of micropollutants using living and non-living algae - Current perspectives and challenges. *Environmental Pollution*, **2022**, 292, 118474	9.3	5
31	Effect of Algal Cells on Water Pollution Control. *Current Pollution Reports*, **2021**, 7, 213-226	7.6	5
30	Opportunities and Challenges for Sustainable Bioremediation of Natural and Synthetic Estrogens as Emerging Water Contaminants Using Bacteria, Fungi, and Algae. *Water, Air, and Soil Pollution*, **2021**, 232, 1	2.6	5
29	Isotherm and kinetics studies for the adsorption of bisphenol A from aqueous solution by activated carbon ofMusa acuminata. *IOP Conference Series: Materials Science and Engineering*, **2019**, 495, 012059	0.4	5
28	A Green Method for the Enhancement of Antifungal Properties of Various Textiles Functionalized with Silver Nanoparticles. *Biointerface Research in Applied Chemistry*, **2020**, 10, 7284-7294	2.8	4
27	Potential of Carica papaya Seed-Derived Bio-Coagulant to Remove Turbidity from Polluted Water Assessed through Experimental and Modeling-Based Study. *Applied Sciences (Switzerland)*, **2021**, 11, 5715	2.6	4
26	Thermo-Physical Properties of Kenaf-Filled Acrylonitrile Butadiene Styrene Composites. *MATEC Web of Conferences*, **2017**, 95, 03001	0.3	3
25	Prospects of Multiproduct Algal Biorefineries Involving Cascading Processing of the Biomass Employing a Zero-Waste Approach. *Current Pollution Reports*,1	7.6	3
24	Development of a Novel Adsorbent Prepared from Dredging Sediment for Effective Removal of Dye in Aqueous Solutions. *Applied Sciences (Switzerland)*, **2021**, 11, 10722	2.6	3
23	Advances in pretreatment technology for handling the palm oil mill effluent: Challenges and prospects. *Bioresource Technology*, **2022**, 344, 126239	11	3
22	Equilibrium, kinetic and thermodynamic analysis petroleum oil adsorption from aqueous solution by magnetic activated carbon. *IOP Conference Series: Materials Science and Engineering*, **2019**, 495, 012060	0.4	3
21	Preparation, characterization, and lead removal appraisal of zinc aluminate prepared at different calcination temperatures. *Journal of the Chinese Chemical Society*, **2018**, 65, 1199-1209	1.5	3
20	Prospective biodegradation of organic and nitrogenous pollutants from palm oil mill effluent by acidophilic bacteria and archaea. *Bioresource Technology Reports*, **2021**, 15, 100809	4.1	3
19	Recent advances on bacterial quorum quenching as an effective strategy to control biofouling in membrane bioreactors. *Bioresource Technology Reports*, **2021**, 15, 100745	4.1	3
18	Adsorption isotherms and kinetics of phosphate on waste mussel shell. *Malaysian Journal of Fundamental and Applied Sciences*, **2020**, 16, 393-399	2.1	2
17	Fabrication of biocomposites reinforced with natural fibers and evaluation of their physio-chemical properties. *Biointerface Research in Applied Chemistry*, **2020**, 10, 5803-5808	2.8	2
16	Kinetic and isotherm studies of adsorption processes in the removal of reactive dyes from aqueous solutions. *IOP Conference Series: Materials Science and Engineering*, **2019**, 495, 012062	0.4	2
15	Comparison of Cost Benefits of New Installation and Retrofitted Rainwater Harvesting Systems for Commercial Buildings. *Green Energy and Technology*, **2019**, 169-174	0.6	2

14	The mechanisms and kinetics of phosphate adsorption onto iron-coated waste mussel shell observed from hydrodynamic column. *International Journal of Environmental Science and Technology*,1	3.3	2
13	Advances in Green Technologies for the Removal of Effluent Organic Matter from the Urban Wastewater. *Current Pollution Reports*,1	7.6	2
12	Evaluation of phase transformation behaviors of zeolite and antibacterial properties against Gram-positive and -negative bacteria. *Journal of the Chinese Chemical Society*, **2020**, 67, 2042-2049	1.5	1
11	Mechanical and molecular studies of biocomposites filled with oil palm empty fruit bunches microfibers. *IOP Conference Series: Materials Science and Engineering*, **2017**, 196, 012042	0.4	1
10	Simple Model for Simulating Characteristics of River Flow Velocity in Large Scale. *International Journal of Geophysics*, **2015**, 2015, 1-8	2	1
9	Development of a novel and efficient biochar produced from pepper stem for effective ibuprofen removal.. *Bioresource Technology*, **2022**, 126685	11	1
8	Shifting from Conventional to Organic Filter Media in Wastewater Biofiltration Treatment: A Review. *Applied Sciences (Switzerland)*, **2021**, 11, 8650	2.6	1
7	Reliability and Economic Analysis of a Rainwater-Harvesting System for a Commercial Building with a Large Rooftop Area. *ACS ES&T Water*, **2022**, 2, 604-615		1
6	The Physical Modeling Analysis of Fate and Transport of Silver Nanoparticles Dispersed by Water Flow. *Journal of Chemistry*, **2021**, 2021, 1-9	2.3	0
5	Untargeted metabolomics of the alkaliphilic cyanobacterium Plectonema terebrans elucidated novel stress-responsive metabolic modulations. *Journal of Proteomics*, **2021**, 252, 104447	3.9	0
4	Insights into the potential application of magnetic field in controlling sludge bulking and foaming: A review. *Bioresource Technology*, **2022**, 358, 127416	11	0
3	Biocomposites Formulated with Virgin/Recycled Acrylonitrile Butadiene Styrene. *Materials Science Forum*, **2017**, 900, 23-26	0.4	
2	Sustainable approaches for biohydrogen and biogas production from corn wastes: prospects and challenges **2022**, 207-214		
1	Towards Resilient Storage for Water Supply Dam Under Climate Change Scenarios: A Case Study of Linggiu Reservoir. *Water Resources Development and Management*, **2020**, 290-297	0.1	