

# Ezzat Chan Abdullah

## List of Publications by Year in descending order

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114  
papers

6,874  
citations

50566

48  
h-index

71088

80  
g-index

116  
all docs

116  
docs citations

116  
times ranked

8271  
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-route synthesis of binary metal oxide loaded coconut shell and watermelon rind biochar: Characterizations and cyclic voltammetry analysis. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 2279-2291.	2.9	5
2	Facile synthesis of a binary composite from watermelon rind using response surface methodology for supercapacitor electrode material. <i>Journal of Energy Storage</i> , 2022, 49, 104147.	3.9	16
3	Insight into immobilization efficiency of Lipase enzyme as a biocatalyst on the graphene oxide for adsorption of Azo dyes from industrial wastewater effluent. <i>Journal of Molecular Liquids</i> , 2022, 354, 118849.	2.3	29
4	Modelling and optimization for methylene blue adsorption using graphene oxide/chitosan composites via artificial neural network-particle swarm optimization. <i>Materials Today Chemistry</i> , 2022, 24, 100946.	1.7	17
5	Functionalized multi-walled carbon nanotubes and hydroxyapatite nanorods reinforced with polypropylene for biomedical application. <i>Scientific Reports</i> , 2021, 11, 843.	1.6	33
6	Optimisation of NiO electrodeposition on 3D graphene electrode for electrochemical energy storage using response surface methodology. <i>Journal of Electroanalytical Chemistry</i> , 2021, 882, 114992.	1.9	19
7	Magnetic nanocomposites for sustainable water purification—a comprehensive review. <i>Environmental Science and Pollution Research</i> , 2021, 28, 19563-19588.	2.7	38
8	Surface charge on chitosan/cellulose nanowhiskers composite via functionalized and untreated carbon nanotube. <i>Arabian Journal of Chemistry</i> , 2021, 14, 103022.	2.3	29
9	Optimising the fabrication of 3D binder-free graphene electrode for electrochemical energy storage application. <i>Surface and Coatings Technology</i> , 2021, 413, 127080.	2.2	9
10	A comprehensive review on magnetic carbon nanotubes and carbon nanotube-based buckypaper for removal of heavy metals and dyes. <i>Journal of Hazardous Materials</i> , 2021, 413, 125375.	6.5	223
11	A review on the properties and applications of chitosan, cellulose and deep eutectic solvent in green chemistry. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 104, 362-380.	2.9	72
12	Carbon and polymer-based magnetic nanocomposites for oil-spill remediation—a comprehensive review. <i>Environmental Science and Pollution Research</i> , 2021, 28, 54477-54496.	2.7	24
13	A comprehensive review on micropollutants removal using carbon nanotubes-based adsorbents and membranes. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106647.	3.3	54
14	Emerging pollutants and their removal using visible-light responsive photocatalysis—A comprehensive review. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106643.	3.3	74
15	Importance of Nanomaterials in Engineering Application. <i>Engineering Materials</i> , 2021, , 1-20.	0.3	2
16	Electrocatalytic activity of starch/Fe <sub>3</sub> O <sub>4</sub> /zeolite bionanocomposite for oxygen reduction reaction. <i>Arabian Journal of Chemistry</i> , 2020, 13, 1297-1308.	2.3	13
17	Biodiesel synthesis using natural solid catalyst derived from biomass waste — A review. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 81, 41-60.	2.9	101
18	A Review of the Graphene Synthesis Routes and its Applications in Electrochemical Energy Storage. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2020, 45, 339-377.	6.8	47

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19	Modelling of methylene blue adsorption using peroxidase immobilized functionalized Buckypaper/polyvinyl alcohol membrane via ant colony optimization. <i>Environmental Pollution</i> , 2020, 259, 113940.	3.7	68
20	Magnetic biochar derived from waste palm kernel shell for biodiesel production via sulfonation. <i>Waste Management</i> , 2020, 118, 626-636.	3.7	58
21	Graphene/PVA buckypaper for strain sensing application. <i>Scientific Reports</i> , 2020, 10, 20106.	1.6	20
22	Graphene based nanomaterials for strain sensor application—a review. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103743.	3.3	136
23	Magnetic nanoparticles incorporation into different substrates for dyes and heavy metals removal—a Review. <i>Environmental Science and Pollution Research</i> , 2020, 27, 43526-43541.	2.7	82
24	Adsorption of Cu(II) and Ni(II) ions from wastewater onto bentonite and bentonite/GO composite. <i>Environmental Science and Pollution Research</i> , 2020, 27, 33270-33296.	2.7	62
25	Low cost and efficient synthesis of magnetic iron oxide/activated sericite nanocomposites for rapid removal of methylene blue and crystal violet dyes. <i>Materials Characterization</i> , 2020, 163, 110275.	1.9	33
26	Fabrication of 3D binder-free graphene NiO electrode for highly stable supercapattery. <i>Scientific Reports</i> , 2020, 10, 11214.	1.6	60
27	Removal of dye using peroxidase-immobilized Buckypaper/polyvinyl alcohol membrane in a multi-stage filtration column via RSM and ANFIS. <i>Environmental Science and Pollution Research</i> , 2020, 27, 40121-40134.	2.7	54
28	Adsorption of heavy metal from industrial wastewater onto low-cost Malaysian kaolin clay-based adsorbent. <i>Environmental Science and Pollution Research</i> , 2020, 27, 13949-13962.	2.7	50
29	Surface force arising from Adsorbed graphene oxide in kaolinite suspensions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 592, 124592.	2.3	12
30	Modeling and optimization by particle swarm embedded neural network for adsorption of methylene blue by jicama peroxidase immobilized on buckypaper/polyvinyl alcohol membrane. <i>Environmental Research</i> , 2020, 183, 109158.	3.7	60
31	Magnetic nanoadsorbents—™ potential route for heavy metals removal—a review. <i>Environmental Science and Pollution Research</i> , 2020, 27, 24342-24356.	2.7	127
32	Synthesis of organic phase change materials by using carbon nanotubes as filler material. <i>Nano Structures Nano Objects</i> , 2019, 19, 100361.	1.9	22
33	Functionalized carbon nanomaterials for wastewater treatment. , 2019, , 283-311.		10
34	Magnetic palm kernel biochar potential route for phenol removal from wastewater. <i>Environmental Science and Pollution Research</i> , 2019, 26, 35183-35197.	2.7	70
35	An Overview of Magnetic Material: Preparation and Adsorption Removal of Heavy Metals from Wastewater. <i>Nanotechnology in the Life Sciences</i> , 2019, , 131-159.	0.4	25
36	An overview of biodiesel production using recyclable biomass and non-biomass derived magnetic catalysts. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103219.	3.3	94

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37	Carbon nanomaterials based films for strain sensing application—A review. <i>Nano Structures Nano Objects</i> , 2019, 18, 100312.	1.9	59
38	Immobilization of Peroxidase on Functionalized MWCNTs-Buckypaper/Polyvinyl alcohol Nanocomposite Membrane. <i>Scientific Reports</i> , 2019, 9, 2215.	1.6	68
39	An overview of immobilized enzyme technologies for dye and phenolic removal from wastewater. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 102961.	3.3	175
40	Solid matrices for fabrication of magnetic iron oxide nanocomposites: Synthesis, properties, and application for the adsorption of heavy metal ions and dyes. <i>Composites Part B: Engineering</i> , 2019, 162, 538-568.	5.9	145
41	Iron Oxide Nanomaterials for the Removal of Heavy Metals and Dyes From Wastewater. , 2019, , 447-472.		55
42	The effects of CeO <sub>2</sub> addition on the physical and microstructural properties of ZTA-TiO <sub>2</sub> ceramics composite. <i>Journal of Alloys and Compounds</i> , 2019, 773, 27-33.	2.8	21
43	Novel fabrication of functionalized graphene oxide via magnetite and 1-butyl-3-methylimidazolium tetrafluoroborate. <i>Nano Structures Nano Objects</i> , 2018, 16, 403-411.	1.9	9
44	Pilot study of in-line continuous flocculation water treatment plant. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 7185-7191.	3.3	11
45	Synthesis of polyvinyl alcohol (PVA) infiltrated MWCNTs buckypaper for strain sensing application. <i>Scientific Reports</i> , 2018, 8, 17295.	1.6	59
46	Adsorptive Removal of Methylene Blue Using Magnetic Biochar Derived from Agricultural Waste Biomass: Equilibrium, Isotherm, Kinetic Study. <i>International Journal of Nanoscience</i> , 2018, 17, 1850002.	0.4	8
47	Comparative study of acid functionalization of carbon nanotube via ultrasonic and reflux mechanism. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 5889-5896.	3.3	67
48	Recent trends in the synthesis of graphene and graphene oxide based nanomaterials for removal of heavy metals — A review. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 66, 29-44.	2.9	299
49	An overview of functionalised carbon nanomaterial for organic pollutant removal. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 67, 175-186.	2.9	104
50	In-situ polymerization of magnetic biochar — polypyrrole composite: A novel application in supercapacitor. <i>Biomass and Bioenergy</i> , 2017, 98, 95-111.	2.9	58
51	Synthesis of CTAB intercalated graphene and its application for the adsorption of AR265 and AO7 dyes from water. <i>Journal of Colloid and Interface Science</i> , 2017, 493, 51-61.	5.0	83
52	A promising route of magnetic based materials for removal of cadmium and methylene blue from waste water. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 1447-1455.	3.3	80
53	A facile and green synthetic approach toward fabrication of starch-stabilized magnetite nanoparticles. <i>Chinese Chemical Letters</i> , 2017, 28, 1590-1596.	4.8	30
54	Application potential of carbon nanomaterials in water and wastewater treatment: A review. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 72, 116-133.	2.7	220

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55	Effect of process parameters for production of microporous magnetic biochar derived from agriculture waste biomass. <i>Microporous and Mesoporous Materials</i> , 2017, 253, 29-39.	2.2	67
56	Agricultural biomass-derived magnetic adsorbents: Preparation and application for heavy metals removal. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 78, 168-177.	2.7	97
57	Microwave sintering of zirconia-toughened alumina (ZTA)-TiO <sub>2</sub> -Cr <sub>2</sub> O <sub>3</sub> ceramic composite: The effects on microstructure and properties. <i>Journal of Alloys and Compounds</i> , 2017, 722, 458-466.	2.8	47
58	Microwave Assisted Carbon Nanofibers for Removal of Zinc and Copper from Waste Water. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 1847-1856.	0.9	3
59	Microwave induced synthesis of magnetic biochar from agricultural biomass for removal of lead and cadmium from wastewater. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 45, 287-295.	2.9	154
60	Synthesis of magnetic biochar from agricultural waste biomass to enhancing route for waste water and polymer application: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 67, 257-276.	8.2	292
61	Facile and green preparation of magnetite/zeolite nanocomposites for energy application in a single-step procedure. <i>Journal of Alloys and Compounds</i> , 2017, 719, 218-226.	2.8	29
62	Adsorptive Removal of Phenol from Aqueous Solution by Using Carbon Nanotubes and Magnetic BioChar. <i>NanoWorld Journal</i> , 2017, 03, 32-37.	0.8	12
63	Bamboo Leaf Aerogel Opacified with Activated Carbon. <i>Transactions of the Indian Ceramic Society</i> , 2016, 75, 175-180.	0.4	2
64	Single-route synthesis of magnetic biochar from sugarcane bagasse by microwave-assisted pyrolysis. <i>Materials Letters</i> , 2016, 184, 315-319.	1.3	52
65	Effects of Cr <sub>2</sub> O <sub>3</sub> addition on the phase, mechanical properties, and microstructure of zirconia-toughened alumina added with TiO <sub>2</sub> (ZTA-TiO <sub>2</sub> ) ceramic composite. <i>International Journal of Refractory Metals and Hard Materials</i> , 2016, 61, 40-45.	1.7	27
66	A new route of magnetic biochar based polyaniline composites for supercapacitor electrode materials. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016, 121, 240-257.	2.6	61
67	Determination of kinetic parameters for thermal decomposition of bamboo leaf to extract bio-silica. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2016, 38, 3249-3254.	1.2	4
68	Dodecyl sulfate chain anchored mesoporous graphene: Synthesis and application to sequester heavy metal ions from aqueous phase. <i>Chemical Engineering Journal</i> , 2016, 304, 431-439.	6.6	38
69	Plam oil empty fruit bunch based magnetic biochar composite comparison for synthesis by microwave-assisted and conventional heating. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016, 120, 521-528.	2.6	69
70	Rapid adsorption of toxic Pb(II) ions from aqueous solution using multiwall carbon nanotubes synthesized by microwave chemical vapor deposition technique. <i>Journal of Environmental Sciences</i> , 2016, 45, 143-155.	3.2	72
71	Microwave-assisted synthesis of multi-walled carbon nanotubes for enhanced removal of Zn(II) from wastewater. <i>Research on Chemical Intermediates</i> , 2016, 42, 3257-3281.	1.3	32
72	Mass Production of Carbon Nanofibers Using Microwave Technology. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 9571-9577.	0.9	4

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73	Comparative kinetic study of functionalized carbon nanotubes and magnetic biochar for removal of Cd <sup>2+</sup> ions from wastewater. <i>Korean Journal of Chemical Engineering</i> , 2015, 32, 446-457.	1.2	54
74	Applications of graphene and its derivatives as an adsorbent for heavy metal and dye removal: a systematic and comprehensive overview. <i>RSC Advances</i> , 2015, 5, 50392-50420.	1.7	240
75	Novel microwave-assisted multiwall carbon nanotubes enhancing Cu (II) adsorption capacity in water. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015, 53, 140-152.	2.7	32
76	Removal of Methylene Blue and Orange-G from Waste Water Using Magnetic Biochar. <i>International Journal of Nanoscience</i> , 2015, 14, 1550009.	0.4	46
77	Effects of TiO <sub>2</sub> addition on the phase, mechanical properties, and microstructure of zirconia-toughened alumina ceramic composite. <i>Ceramics International</i> , 2015, 41, 3961-3967.	2.3	76
78	Microwave assisted multiwall carbon nanotubes enhancing Cd(II) adsorption capacity in aqueous media. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 24, 24-33.	2.9	34
79	Synthesis of magnetic biochar from <i>Garcinia Mangostana</i> peel using muffle furnace for adsorption of Zn <sup>2+</sup> ions from aqueous solution. , 2015, , .		0
80	Removal of Heavy Metals from Wastewater Using Carbon Nanotubes. <i>Separation and Purification Reviews</i> , 2014, 43, 311-338.	2.8	240
81	Characterisation of bio-silica synthesised from cogon grass ( <i>Imperata cylindrica</i> ). <i>Powder Technology</i> , 2014, 254, 206-213.	2.1	23
82	Synthesis of palm oil empty fruit bunch magnetic pyrolytic char impregnating with FeCl <sub>3</sub> by microwave heating technique. <i>Biomass and Bioenergy</i> , 2014, 61, 265-275.	2.9	99
83	From bamboo leaf to aerogel: Preparation of water glass as a precursor. <i>Journal of Non-Crystalline Solids</i> , 2014, 386, 76-84.	1.5	45
84	CFD simulation of fluidized bed reactors for polyolefin production – A review. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 3919-3946.	2.9	99
85	An overview on methods for the production of carbon nanotubes. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 1186-1197.	2.9	160
86	Immobilization of cellulase enzyme on functionalized multiwall carbon nanotubes. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2014, 107, 124-131.	1.8	147
87	Single stage production of carbon nanotubes using microwave technology. <i>Diamond and Related Materials</i> , 2014, 48, 52-59.	1.8	49
88	Thermal Insulative Performance of Bamboo Leaf Aerogel Opacified Using Activated Carbon Compared with Carbon Black. <i>Advanced Materials Research</i> , 2014, 941-944, 2482-2485.	0.3	0
89	Physicochemical properties of bamboo leaf aerogels synthesized via different modes of gelation. <i>Applied Surface Science</i> , 2014, 301, 161-172.	3.1	10
90	Adsorption of chromium (VI) on functionalized and non-functionalized carbon nanotubes. <i>Korean Journal of Chemical Engineering</i> , 2014, 31, 1582-1591.	1.2	36

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91	Adsorption Isotherm and Thermodynamics Studies of Zn(II) on Functionalized and Non-Functionalized Carbon Nanotubes. <i>Advanced Science, Engineering and Medicine</i> , 2014, 6, 974-984.	0.3	6
92	Statistical optimization and kinetic studies on removal of Zn <sup>2+</sup> using functionalized carbon nanotubes and magnetic biochar. <i>Journal of Environmental Chemical Engineering</i> , 2013, 1, 486-495.	3.3	96
93	ADSORPTION AND KINETIC STUDY ON $\text{Sn}^{2+}$ REMOVAL USING MODIFIED CARBON NANOTUBE AND MAGNETIC BIOCHAR. <i>International Journal of Nanoscience</i> , 2013, 12, 1350044.	0.4	18
94	A SILICON GERMANIUM GRADED JUNCTIONLESS TRANSISTOR WITH LOW OFF CURRENT. <i>International Journal of Nanoscience</i> , 2013, 12, 1350043.	0.4	1
95	Isoniazid Active Pharmaceutical Ingredient in Nano Size Using Ultra Rapid Freezing. <i>Nanoscience and Nanotechnology Letters</i> , 2013, 5, 593-599.	0.4	2
96	An Approach to Utilize Crust Leather Scrapes, Dumped into the Land, for the Production of Environmental Friendly Leather Composite. <i>Engineering Journal</i> , 2013, 17, 17-24.	0.5	6
97	Measuring powder flowability with a modified Warren Spring cohesion tester. <i>Particuology</i> , 2011, 9, 148-154.	2.0	17
98	Solubility of Isoniazid in Supercritical Carbon Dioxide. <i>Journal of Chemical &amp; Engineering Data</i> , 2010, 55, 2306-2309.	1.0	16
99	Effects of ultrasound in coating nano-precipitated $\text{CaCO}_3$ with stearic acid. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2009, 4, 807-813.	0.8	4
100	Characterisation of dry powders. <i>Powder Technology</i> , 2009, 190, 70-74.	2.1	89
101	Solubility of Isoniazid in Various Organic Solvents from (301 to 313) K. <i>Journal of Chemical &amp; Engineering Data</i> , 2008, 53, 1962-1964.	1.0	16
102	Title is missing!. <i>ScienceAsia</i> , 2007, 33, 469.	0.2	59
103	Encapsulation Method for $\text{CaCO}_3$ Nanoparticles. <i>Journal of Applied Sciences</i> , 2007, 7, 2046-2050.	0.1	6
104	Characterization of powder flowability using measurement of angle of repose. <i>Particuology: Science and Technology of Particles</i> , 2006, 4, 104-107.	0.4	237
105	The use of bulk density measurements as flowability indicators. <i>Powder Technology</i> , 1999, 102, 151-165.	2.1	389
106	An improvement to the basic energy balance model for urban thermal environment analysis. <i>Energy and Buildings</i> , 1990, 14, 143-152.	3.1	22
107	Enhancement the Dissolution Rate and Solubility of Poorly Soluble Drugs: Review. <i>Advanced Materials Research</i> , 0, 701, 234-238.	0.3	4
108	Storage Conditions and Particle Size Effects on Powder Cohesion Index Using Stable Micro System. <i>Advanced Materials Research</i> , 0, 701, 415-419.	0.3	0

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109	Effect of Titania (TiO <sub>2</sub> ) Addition to Zirconia Toughened Alumina (ZTA) Phases, Hardness and Microstructure. Advanced Materials Research, 0, 1087, 293-298.	0.3	6
110	Effect of Titania and Magnesia on the Physical Properties of Zirconia Toughened Alumina. Materials Science Forum, 0, 840, 82-86.	0.3	1
111	Effect of Cr <sub>2</sub> O <sub>3</sub> -TiO <sub>2</sub> Addition on the Physical Properties of Zirconia Toughened Alumina. Materials Science Forum, 0, 840, 34-38.	0.3	6
112	Immobilization of Lipase Enzyme Carbon Nanotubes via Adsorption. IOP Conference Series: Materials Science and Engineering, 0, 495, 012055.	0.3	9
113	Multiwall carbon nanotube promising route for removal of chromium from wastewater via batch column mechanism. IOP Conference Series: Materials Science and Engineering, 0, 495, 012061.	0.3	4
114	Characterization of crystallized struvite on wastewater treatment equipment: Prospects for crystal fertilizer production. , 0, 113, 205-212.		4