

Abdallah M Shanableh

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7089192/publications.pdf>

Version: 2024-02-01

125
papers

2,536
citations

218381

26
h-index

243296

44
g-index

125
all docs

125
docs citations

125
times ranked

2154
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimisation of rainwater tank design from large roofs: A case study in Melbourne, Australia. <i>Resources, Conservation and Recycling</i> , 2011, 55, 1022-1029.	5.3	142
2	Production of useful organic matter from sludge using hydrothermal treatment. <i>Water Research</i> , 2000, 34, 945-951.	5.3	111
3	Rainwater harvesting potential for southwest Nigeria using daily water balance model. <i>Resources, Conservation and Recycling</i> , 2012, 62, 51-55.	5.3	98
4	Stabilization of Cd, Ni and Pb in soil using natural zeolite. <i>Journal of Hazardous Materials</i> , 1996, 45, 207-217.	6.5	97
5	Sensors, Features, and Machine Learning for Oil Spill Detection and Monitoring: A Review. <i>Remote Sensing</i> , 2020, 12, 3338.	1.8	94
6	Use of the multiple stress creep recovery (MSCR) test to characterize the rutting potential of asphalt binders: A literature review. <i>Construction and Building Materials</i> , 2021, 269, 121320.	3.2	93
7	Modeling roadway traffic noise in a hot climate using artificial neural networks. <i>Transportation Research, Part D: Transport and Environment</i> , 2017, 53, 161-177.	3.2	79
8	Dam Site Suitability Mapping and Analysis Using an Integrated GIS and Machine Learning Approach. <i>Water (Switzerland)</i> , 2019, 11, 1880.	1.2	69
9	Human health risk assessment of pharmaceuticals in treated wastewater reused for non-potable applications in Sharjah, United Arab Emirates. <i>Environment International</i> , 2018, 121, 325-331.	4.8	68
10	Reliability analysis of rainwater tanks using daily water balance model: Variations within a large city. <i>Resources, Conservation and Recycling</i> , 2013, 77, 37-43.	5.3	64
11	Production and transformation of volatile fatty acids from sludge subjected to hydrothermal treatment. <i>Water Science and Technology</i> , 2001, 44, 129-135.	1.2	62
12	Financial feasibility of waste to energy strategies in the United Arab Emirates. <i>Waste Management</i> , 2018, 82, 207-219.	3.7	60
13	Hydrothermal decomposition and oxidation of the organic component of municipal and industrial waste products. <i>Journal of Environmental Management</i> , 2003, 7, 647-653.	1.7	56
14	Combustion and emissions analysis of Spent Pot lining (SPL) as alternative fuel in cement industry. <i>Science of the Total Environment</i> , 2019, 684, 519-526.	3.9	56
15	Continuous and scalable applications of microbial fuel cells: a critical review. <i>Reviews in Environmental Science and Biotechnology</i> , 2019, 18, 543-578.	3.9	50
16	Effects of Land Cover Change on Urban Floods and Rainwater Harvesting: A Case Study in Sharjah, UAE. <i>Water (Switzerland)</i> , 2018, 10, 631.	1.2	49
17	Compaction characteristics of granular soils in United Arab Emirates. <i>Geotechnical and Geological Engineering</i> , 2003, 21, 283-295.	0.8	44
18	Progress of the Pyrolyzer Reactors and Advanced Technologies for Biomass Pyrolysis Processing. <i>Sustainability</i> , 2021, 13, 11061.	1.6	44

#	ARTICLE	IF	CITATIONS
19	Iron sulfide nanoparticles prepared using date seed extract: Green synthesis, characterization and potential application for removal of ciprofloxacin and chromium. <i>Powder Technology</i> , 2021, 380, 219-228.	2.1	38
20	Potential groundwater zone mapping based on geo-hydrological considerations and multi-criteria spatial analysis: North UAE. <i>Catena</i> , 2019, 173, 511-524.	2.2	36
21	Simultaneous Determination of Pharmaceuticals by Solid-phase Extraction and Liquid Chromatography-Tandem Mass Spectrometry: A Case Study from Sharjah Sewage Treatment Plant. <i>Molecules</i> , 2019, 24, 633.	1.7	32
22	Waste to energy potential in middle income countries of MENA region based on multi-scenario analysis for Kafr El-Sheikh Governorate, Egypt. <i>Journal of Environmental Management</i> , 2019, 232, 58-65.	3.8	32
23	Comparative life cycle assessment of anaerobic co-digestion for dairy waste management in large-scale farms. <i>Journal of Cleaner Production</i> , 2020, 256, 120320.	4.6	30
24	Treatment of sewage sludge using hydrothermal oxidation “ technology application challenges. <i>Water Science and Technology</i> , 2000, 41, 85-92.	1.2	29
25	Phenolic Composition and Antimicrobial Activity of Different Emirati Date (<i>Phoenix dactylifera</i> L.) Pits: A Comparative Study. <i>Plants</i> , 2019, 8, 497.	1.6	29
26	Deep Convolutional Neural Network for Large-Scale Date Palm Tree Mapping from UAV-Based Images. <i>Remote Sensing</i> , 2021, 13, 2787.	1.8	28
27	Image Segmentation Parameter Selection and Ant Colony Optimization for Date Palm Tree Detection and Mapping from Very-High-Spatial-Resolution Aerial Imagery. <i>Remote Sensing</i> , 2018, 10, 1413.	1.8	27
28	Mapping Heterogeneous Urban Landscapes from the Fusion of Digital Surface Model and Unmanned Aerial Vehicle-Based Images Using Adaptive Multiscale Image Segmentation and Classification. <i>Remote Sensing</i> , 2020, 12, 1081.	1.8	27
29	Supercritical water oxidation of sludges contaminated with toxic organic chemicals. <i>Water Science and Technology</i> , 2000, 42, 363-368.	1.2	26
30	Life cycle cost analysis of a sustainable solar water distillation technique. <i>Desalination and Water Treatment</i> , 2013, 51, 7412-7419.	1.0	24
31	Impacts of climatic variability on rainwater tank outcomes for an inland city, Canberra. <i>International Journal of Hydrology Science and Technology</i> , 2014, 4, 177.	0.2	24
32	Assessment of Seasonal and Annual Rainfall Trends and Variability in Sharjah City, UAE. <i>Advances in Meteorology</i> , 2016, 2016, 1-13.	0.6	24
33	Assessment of sulfamethoxazole removal by nanoscale zerovalent iron. <i>Science of the Total Environment</i> , 2021, 761, 143307.	3.9	24
34	Review of the Superpave performance grading system and recent developments in the performance-based test methods for asphalt binder characterization. <i>Construction and Building Materials</i> , 2022, 319, 126063.	3.2	24
35	Waste to energy spatial suitability analysis using hybrid multi-criteria machine learning approach. <i>Environmental Science and Pollution Research</i> , 2022, 29, 2613-2628.	2.7	21
36	Co-pyrolysis for bio-oil production via fixed bed reactor using date seeds and plastic waste as biomass. <i>Case Studies in Thermal Engineering</i> , 2022, 31, 101841.	2.8	21

#	ARTICLE	IF	CITATIONS
37	Biofilters for water reuse in aquaculture. <i>Water Science and Technology</i> , 1996, 34, 253.	1.2	20
38	Generalized First-Order Kinetic Model for Biosolids Decomposition and Oxidation during Hydrothermal Treatment. <i>Environmental Science & Technology</i> , 2005, 39, 355-362.	4.6	20
39	SPEEK and SPPO Blended Membranes for Proton Exchange Membrane Fuel Cells. <i>Membranes</i> , 2022, 12, 263.	1.4	20
40	Assessment of the biochemical methane potential of mono- and co-digested dairy farm wastes. <i>Waste Management and Research</i> , 2020, 38, 88-99.	2.2	19
41	A framework for linear viscoelastic characterization of asphalt mixtures. <i>Materials and Structures/Materiaux Et Constructions</i> , 2020, 53, 1.	1.3	19
42	Synthesis of DMEA-Grafted Anion Exchange Membrane for Adsorptive Discharge of Methyl Orange from Wastewaters. <i>Membranes</i> , 2021, 11, 166.	1.4	19
43	Modelling multi-species algal bloom in a lake and inter-algal competitions. <i>Water Science and Technology</i> , 2009, 60, 2599-2611.	1.2	18
44	Macro and micro geo-spatial environment consideration for landfill site selection in Sharjah, United Arab Emirates. <i>Environmental Monitoring and Assessment</i> , 2018, 190, 147.	1.3	18
45	Analysis of MSCR test results for asphalt binders with improved accuracy. <i>Materials and Structures/Materiaux Et Constructions</i> , 2021, 54, 1.	1.3	18
46	Evaluation of test methods for measurement of zero shear viscosity (ZSV) of asphalt binders. <i>Construction and Building Materials</i> , 2022, 325, 126794.	3.2	18
47	Effect of cycle duration on phosphorus and nitrogen transformations in biofilters. <i>Water Research</i> , 1997, 31, 149-153.	5.3	17
48	Removal of phosphate from water using six Al-, Fe-, and Al-Fe-modified bentonite adsorbents. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2013, 48, 223-231.	0.9	17
49	Infrastructure growth assessment of urban areas based on multi-temporal satellite images and linear features. <i>Annals of GIS</i> , 2017, 23, 183-201.	1.4	17
50	A comprehensive review on advanced thermochemical processes for bio-hydrogen production via microwave and plasma technologies. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 8593-8602.	2.9	17
51	Bio-Acidification and Leaching of Metals, Nitrogen, and Phosphorus from Soil and Sludge Mixtures. <i>Soil and Sediment Contamination</i> , 2003, 12, 565-589.	1.1	16
52	Comprehensive evaluation of the life cycle of liquid and solid fuels derived from recycled coffee waste. <i>Resources, Conservation and Recycling</i> , 2019, 150, 104446.	5.3	16
53	Characterization of the shear-thinning behavior of asphalt binders with consideration of yield stress. <i>Materials and Structures/Materiaux Et Constructions</i> , 2020, 53, 1.	1.3	16
54	Anticancer activities of selected Emirati Date (<i>Phoenix dactylifera</i> L.) varieties pits in human triple negative breast cancer MDA-MB-231 cells. <i>Saudi Journal of Biological Sciences</i> , 2020, 27, 3390-3396.	1.8	15

#	ARTICLE	IF	CITATIONS
55	Performance assessment of bio-modified asphalt binder using extracted bio oil from date seeds waste. <i>International Journal of Systems Assurance Engineering and Management</i> , 2020, 11, 1260-1270.	1.5	15
56	Higher Acid Recovery Efficiency of Novel Functionalized Inorganic/Organic Composite Anion Exchange Membranes from Acidic Wastewater. <i>Membranes</i> , 2021, 11, 133.	1.4	14
57	Current progress in anaerobic digestion reactors and parameters optimization. <i>Biomass Conversion and Biorefinery</i> , 0, , 1.	2.9	14
58	Analysis of strip footings resting on reinforced granular trench by the finite element method. <i>International Journal of Geotechnical Engineering</i> , 2010, 4, 471-482.	1.1	13
59	Advanced mathematical models and their comparison to predict compaction properties of fine-grained soils from various physical properties. <i>Soils and Foundations</i> , 2018, 58, 1383-1399.	1.3	13
60	Developing artificial neural network models to predict allowable bearing capacity and elastic settlement of shallow foundation in Sharjah, United Arab Emirates. <i>Arabian Journal of Geosciences</i> , 2018, 11, 1.	0.6	13
61	Geomatics for Mapping of Groundwater Potential Zones in Northern Part of the United Arab Emiratis - Sharjah City. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XL-7/W3, 581-586.	0.2	13
62	Synthesis of Porous BPPO-Based Anion Exchange Membranes for Acid Recovery via Diffusion Dialysis. <i>Membranes</i> , 2022, 12, 95.	1.4	13
63	Phenolic Contents and Antioxidant Activity of <i>Citrullus colocynthis</i> Fruits, Growing in the Hot Arid Desert of the UAE, Influenced by the Fruit Parts, Accessions, and Seasons of Fruit Collection. <i>Antioxidants</i> , 2022, 11, 656.	2.2	13
64	Development of a mathematical model for the quantification of fog-collection. <i>Resources, Conservation and Recycling</i> , 2011, 57, 10-14.	5.3	12
65	Developing Machine Learning Models to Predict Roadway Traffic Noise: An Opportunity to Escape Conventional Techniques. <i>Transportation Research Record</i> , 2019, 2673, 158-172.	1.0	12
66	Phosphate removal using nanoscale zerovalent iron: Impact of chitosan and humic acid. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104131.	3.3	12
67	Production and transformation of volatile fatty acids from sludge subjected to hydrothermal treatment. <i>Water Science and Technology</i> , 2001, 44, 129-35.	1.2	12
68	Impact of metals bioleaching on the nutrient value of biological nutrient removal biosolids. <i>Water Science and Technology</i> , 1999, 39, 175.	1.2	11
69	Biogas production from different types of cow manure. , 2018, , .		11
70	COVID-19 Lockdown and the Impact on Mobility, Air Quality, and Utility Consumption: A Case Study from Sharjah, United Arab Emirates. <i>Sustainability</i> , 2022, 14, 1767.	1.6	10
71	Phosphorous adsorption using Al ³⁺ /Fe ³⁺ -modified bentonite adsorbentsâ€™ effect of Al ³⁺ and Fe ³⁺ combinations. <i>Desalination and Water Treatment</i> , 2016, 57, 15628-15634.	1.0	9
72	Spatiotemporal Mapping and Monitoring of Whiting in the Semi-Enclosed Gulf Using Moderate Resolution Imaging Spectroradiometer (MODIS) Time Series Images and a Generic Ensemble Tree-Based Model. <i>Remote Sensing</i> , 2019, 11, 1193.	1.8	9

#	ARTICLE	IF	CITATIONS
73	Spatial and Temporal Inversion of Land Surface Temperature along Coastal Cities in Arid Regions. Remote Sensing, 2022, 14, 1893.	1.8	9
74	Kinetic Model for the Water Oxidation Method for Treating Wastewater Sludges. Asia-Pacific Journal of Chemical Engineering, 2008, 12, 515-530.	0.0	8
75	Contaminants of emerging concern in Sharjah wastewater treatment plant, Sharjah, UAE. Journal of Environmental Engineering and Science, 2019, 14, 225-234.	0.3	8
76	Assessment of Uptake, Accumulation and Degradation of Paracetamol in Spinach (<i>Spinacia oleracea</i> L.) under Controlled Laboratory Conditions. Plants, 2022, 11, 1626.	1.6	8
77	Comparison between major repair and replacement options for a bridge deck life cycle assessment: A case study. MATEC Web of Conferences, 2017, 120, 02017.	0.1	7
78	Spatio-temporal analysis of urban growth and its impact on floods in Ajman City, UAE. Environmental Monitoring and Assessment, 2019, 191, 656.	1.3	7
79	Destruction of Wastewater Treatment Biosolids in Supercritical Water.. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 1998, 7, 1383-1385.	0.1	7
80	FIRST-ORDER HYDROTHERMAL OXIDATION KINETICS OF DIGESTED SLUDGE COMPARED WITH RAW SLUDGE. Environmental Technology (United Kingdom), 2008, 29, 1009-1020.	1.2	6
81	Spatial earthquake vulnerability assessment by using multi-criteria decision making and probabilistic neural network techniques in Odisha, India. Geocarto International, 2022, 37, 8080-8099.	1.7	6
82	Water Quality Improvement through Rainwater Tanks: A Review and Simulation Study. Water (Switzerland), 2022, 14, 1411.	1.2	6
83	Acidic Bioleaching of Nitrogen and Phosphorus from Sewage Sludge. Environmental Technology (United Kingdom), 1999, 20, 459-468.	1.2	5
84	Modification of the swelling characteristics and phosphorus retention of bentonite clay using alum. Soils and Foundations, 2016, 56, 861-868.	1.3	5
85	Evaluating iron-based nanoparticles for ciprofloxacin removal: Date seed extract as a biostabilizing and a bioreducing agent. Journal of Water Process Engineering, 2021, 44, 102419.	2.6	5
86	Hydrothermal treatment and recycling of organic by-products from sludge – confirmation of by-products availability for biological nutrient removal. Journal of Environmental Engineering and Science, 2006, 5, 473-483.	0.3	4
87	Impact of surface ocean acidification on the CO ₂ absorption rate. International Journal of Global Warming, 2011, 3, 163.	0.2	4
88	IT-facilitated student assessment: Outcome-based student grades. , 2011, , .		4
89	Alignment of Course Contents and Student Assessment with Course and Programme Outcomes – A Mathematical Approach. Engineering Education, 2014, 9, 48-61.	0.3	4
90	Risk-based GIS model for hazardous materials routing in Sharjah, United Arab Emirates as a case study. International Journal of Sustainable Society, 2016, 8, 96.	0.0	4

#	ARTICLE	IF	CITATIONS
91	Evaluation of Methods Used for Reducing Heavy Metal Leaching from Sandy Soil. Geotechnical and Geological Engineering, 2016, 34, 1413-1423.	0.8	4
92	Potential impact of global warming on whiting in a semi-enclosed gulf. International Journal of Global Warming, 2017, 13, 411.	0.2	4
93	Mathematical Modelling for Predicting Pollutant Removal Efficiencies of an Electrolysis System. Water, Air, and Soil Pollution, 2020, 231, 1.	1.1	4
94	Experimental characterization and assessment of bio- and thermo-chemical energy potential of dromedary manure. Biomass and Bioenergy, 2021, 148, 106058.	2.9	4
95	Evaluation of microstructural strength of bio-cemented sand crust using rheometry. Geotechnique Letters, 2021, 11, 306-312.	0.6	4
96	Potential Factors That Trigger the Suspension of Calcium Carbonate Sediments and Whiting in a Semi-Enclosed Gulf. Remote Sensing, 2021, 13, 4795.	1.8	4
97	Simulation of Anaerobic Co-Digestion Process for the Biogas Production using ASPEN PLUS. , 2019, , .		3
98	Nomographs for predicting allowable bearing capacity and elastic settlement of shallow foundation on granular soil. Arabian Journal of Geosciences, 2019, 12, 1.	0.6	3
99	Biogas production from raw and oil-spent date palm seeds mixed with wastewater treatment sludge. Biofuels, 2020, 11, 707-714.	1.4	3
100	Perceptions on effective engineering education. , 0, , .		2
101	Multi-Temporal Satellite Imagery for Urban Expansion Assessment at Sharjah City /UAE. IOP Conference Series: Earth and Environmental Science, 2014, 20, 012010.	0.2	2
102	Preparation and characterization of modified bentonite nano composites for phosphorus removal. MATEC Web of Conferences, 2017, 120, 05011.	0.1	2
103	Multicriteria Spatial Analysis to Map Artificial Groundwater Recharge Zones: Northern UAE. , 2021, , .		2
104	Multi-scale correlation-based feature selection and random forest classification for LULC mapping from the integration of SAR and optical Sentinel images. , 2019, , .		2
105	CALIBRATED MULTI-TEMPORAL EDGE IMAGES FOR CITY INFRASTRUCTURE GROWTH ASSESSMENT AND PREDICTION. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-3/W4, 37-44.	0.2	2
106	Challenges and Opportunities of Multi-Disciplinary, Inter-Disciplinary and Trans-Disciplinary Research. , 2022, , 311-325.		2
107	Extraction solventâ€™s effect on biogas production from mixtures of date seed and wastewater sludge. MATEC Web of Conferences, 2017, 120, 05009.	0.1	1
108	Impact of urban expansion on potential flooding, storage and water harvesting in the city of Sharjah, United Arab Emirates. MATEC Web of Conferences, 2017, 120, 09007.	0.1	1

#	ARTICLE	IF	CITATIONS
109	Multi-Temporal satellite imagery for infrastructure growth assessment of Dubai City, UAE. MATEC Web of Conferences, 2017, 120, 09006.	0.1	1
110	Advanced Mathematical Models to Predict the Compaction Properties of Coarse-Grained Soils from Various Physical Properties. Geotechnical and Geological Engineering, 2018, 36, 3467-3483.	0.8	1
111	Self-adaptive Image Segmentation Optimization for Hierarchal Object-based Classification of Drone-based Images. IOP Conference Series: Earth and Environmental Science, 2020, 540, 012090.	0.2	1
112	Challenges & opportunities of wastewater reuse privatization: a case study from Sharjah, UAE. , 2020, , .		1
113	Improved test method for determination of the equiviscous temperature of asphalt binders. International Journal of Pavement Engineering, 2022, 23, 4561-4573.	2.2	1
114	Geotechnical Mapping of Seismic Risk for Sharjah City, United Arab Emirates. Lecture Notes in Civil Engineering, 2019, , 1185-1210.	0.3	1
115	Modelling impact of precipitation of magnesium using lime on removal of select wastewater contaminants. , 0, 100, 287-294.		1
116	Modified Ammonia Removal Model Based on Equilibrium and Mass Transfer Principles. Bulletin of the Korean Chemical Society, 2010, 31, 1920-1926.	1.0	1
117	Estimating earthquake peak ground acceleration and intensity using short-time Fourier and wavelet transform techniques: a case study at Odisha, India. Arabian Journal of Geosciences, 2022, 15, .	0.6	1
118	MUNICIPAL WASTEWATER TREATMENT USING MAGNESIUM FROM SEA SALT BRINE.. Proceedings of the Institution of Civil Engineers: Municipal Engineer, 1997, 121, 193-198.	0.4	0
119	Spatiotemporal Analysis and Image Registration for Studying Growth of Transportation Infrastructure in Sharjah City, UAE. , 2017, , 113-122.		0
120	Liquid-liquid extraction of Nd ⁺³ and Eu ⁺³ from aqueous medium using oxytetracycline in dichloromethane. Radiochimica Acta, 2021, 109, 445-452.	0.5	0
121	Assessing the Spatial and Temporal Capacity of a Semi-Enclosed Gulf to Absorb and Release CO ₂ Using GIS and Remote Sensing. Lecture Notes in Civil Engineering, 2019, , 1161-1173.	0.3	0
122	Impact of Urbanisation on Surface Temperature using Satellite and Ground Observations. , 2022, , .		0
123	Effect of COVID-19 Lockdown on Traffic-related Air Pollution in Florida, USA. , 2022, , .		0
124	A Spatio-Temporal Framework Based on Geographic Information System (GIS) to Evaluate the \mathbf{CO}_2 Emissions. , 2021, , .		0
125	Fabrication and characterization of nanocomposite membranes for the rejection of textile dye. Inorganic and Nano-Metal Chemistry, 0, , 1-9.	0.9	0