Kaan Yetilmezsoy

List of Publications by Year
in descending order

112 papers	4,205 citations	136950 32 h-index	123424 61 g-index
113 all docs	113 docs citations	113 times ranked	4710 citing authors

#	Article	IF	Citations
1	Response surface modeling of Pb(II) removal from aqueous solution by Pistacia vera L.: Boxâ€“Behnken experimental design. Journal of Hazardous Materials, 2009, 171, 551-562.	12.4	463
2	Artificial neural network (ANN) approach for modeling of Pb(II) adsorption from aqueous solution by Antep pistachio (Pistacia Vera L.) shells. Journal of Hazardous Materials, 2008, 153, 1288-1300.	12.4	292
3	Anaerobic digestion technology in poultry and livestock waste treatment â€" a literature review. Waste Management and Research, 2009, 27, 3-18.	3.9	233
4	Recovery of ammonium nitrogen from the effluent of UASB treating poultry manure wastewater by MAP precipitation as a slow release fertilizer. Journal of Hazardous Materials, 2009, 166, 260-269.	12.4	210
5	A review of standards and guidelines set by international bodies for the parameters of indoor air quality. Atmospheric Pollution Research, 2015, 6, 751-767.	3.8	160
6	Optimizing the removal of organophosphorus pesticide malathion from water using multi-walled carbon nanotubes. Chemical Engineering Journal, 2017, 310, 22-32.	12.7	124
7	A fuzzy-logic-based model to predict biogas and methane production rates in a pilot-scale mesophilic UASB reactor treating molasses wastewater. Journal of Hazardous Materials, 2010, 182, 460-471.	12.4	121
8	Adsorptive removal of cobalt(II) from aqueous solutions using multi-walled carbon nanotubes and Î³-alumina as novel adsorbents: Modelling and optimization based on response surface methodology and artificial neural network. Journal of Molecular Liquids, 2020, 299, 112154.	4.9	100
9	Adsorptive removal of fluoride from aqueous solution using single- and multi-walled carbon nanotubes. Journal of Molecular Liquids, 2016, 216, 401-410.	4.9	95
10	High-performance removal of toxic phenol by single-walled and multi-walled carbon nanotubes: Kinetics, adsorption, mechanism and optimization studies. Journal of Industrial and Engineering Chemistry, 2016, 35, 63-74.	5.8	90
11	Decolorization and COD reduction of UASB pretreated poultry manure wastewater by electrocoagulation process: A post-treatment study. Journal of Hazardous Materials, 2009, 162, 120-132.	12.4	88
12	Feasibility of struvite recovery process for fertilizer industry: A study of financial and economic analysis. Journal of Cleaner Production, 2017, 152, 88-102.	9.3	87
13	ARTIFICIAL INTELLIGENCE-BASED PREDICTION MODELS FOR ENVIRONMENTAL ENGINEERING. Neural Network World, 2011, 21, 193-218.	0.8	87
14	Stochastic modeling approaches based on neural network and linearâ€“nonlinear regression techniques for the determination of single droplet collection efficiency of countercurrent spray towers. Environmental Modeling and Assessment, 2007, 12, 13-26.	2.2	75
15	Improvement of COD and color removal from UASB treated poultry manure wastewater using Fenton's oxidation. Journal of Hazardous Materials, 2008, 151, 547-558.	12.4	75
16	Modeling of adsorption of toxic chromium on natural and surface modified lightweight expanded clay aggregate (LECA). Applied Surface Science, 2013, 287, 428-442.	6.1	73
17	Development of empirical models for performance evaluation of UASB reactors treating poultry manure wastewater under different operational conditions. Journal of Hazardous Materials, 2008, 153, 532-543.	12.4	71
18	Effects of doping zinc oxide nanoparticles with transition metals (Ag, Cu, Mn) on photocatalytic degradation of Direct Blue 15 dye under UV and visible light irradiation. Journal of Environmental Health Science & Engineering, 2019, 17, 479-492.	3.0	65

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19	An adaptive neuro-fuzzy approach for modeling of water-in-oil emulsion formation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 389, 50-62.	4.7	61
20	Development of Ann-Based Models to Predict Biogas and Methane Productions in Anaerobic Treatment of Molasses Wastewater. International Journal of Green Energy, 2013, 10, 885-907.	3.8	59
21	A modified butterfly optimization algorithm for mechanical design optimization problems. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	1.6	58
22	Stochastic modeling applications for the prediction of COD removal efficiency of UASB reactors treating diluted real cotton textile wastewater. Stochastic Environmental Research and Risk Assessment, 2009, 23, 13-26.	4.0	56
23	Migration behavior of landfill leachate contaminants through alternative composite liners. Science of the Total Environment, 2011, 409, 3183-3196.	8.0	53
24	Degradation of azinphos-methyl and chlorpyrifos from aqueous solutions by ultrasound treatment. Journal of Molecular Liquids, 2016, 221, 1237-1242.	4.9	51
25	Alum-based sludge (AbS) recycling for turbidity removal in drinking water treatment: an insight into statistical, technical, and health-related standpoints. Journal of Material Cycles and Waste Management, 2018, 20, 1999-2017.	3.0	46
26	Integration of kinetic modeling and desirability function approach for multi-objective optimization of UASB reactor treating poultry manure wastewater. Bioresource Technology, 2012, 118, 89-101.	9.6	41
27	Photocatalytic Degradation of 2,4-Dichlorophenoxyacetic Acid in Aqueous Solution Using Mn-doped ZnO/Graphene Nanocomposite Under LED Radiation. Journal of Inorganic and Organometallic Polymers and Materials, 2020, 30, 923-934.	3.7	39
28	Appraisal of potential environmental risks associated with human antibiotic consumption in Turkey. Journal of Hazardous Materials, 2009, 166, 297-308.	12.4	38
29	Performance evaluation and kinetic modeling of the start-up of a UASB reactor treating municipal wastewater at low temperature. Bioprocess and Biosystems Engineering, 2011, 34, 153-162.	3.4	38
30	A comparative optimization and performance analysis of four different electrocoagulation-flotation processes for humic acid removal from aqueous solutions. Chemical Engineering Research and Design, 2019, 121, 103-117.	5.6	38
31	Synthesis of nanosheet layered double hydroxides at lower pH: Optimization of hardness and sulfate removal from drinking water samples. Journal of the Taiwan Institute of Chemical Engineers, 2014, 45, 2786-2800.	5.3	37
32	Mapping of biogas production potential from livestock manures and slaughterhouse waste: A case study for African countries. Journal of Cleaner Production, 2020, 256, 120499.	9.3	37
33	Adsorptive Removal of Arsenic and Mercury from Aqueous Solutions by Eucalyptus Leaves. Water, Air, and Soil Pollution, 2017, 228, 1.	2.4	35
34	Utilization of Alyssum mucilage as a natural coagulant in oily-saline wastewater treatment. Journal of Water Process Engineering, 2021, 40, 101763.	5.6	33
35	Route optimization of an electric garbage truck fleet for sustainable environmental and energy management. Journal of Cleaner Production, 2019, 234, 1275-1286.	9.3	31
36	A neural network-based approach for the prediction of urban SO<SUB align=right>2 concentrations in the Istanbul metropolitan area. International Journal of Environment and Pollution, 2010, 40, 301.	0.2	30

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37	Application of fuzzy logic approach in predicting the lateral confinement coefficient for RC columns wrapped with CFRP. Engineering Structures, 2015, 88, 74-91.	5.3	30
38	Fuzzy-logic modeling of Fenton's oxidation of anaerobically pretreated poultry manure wastewater. Environmental Science and Pollution Research, 2012, 19, 2227-2237.	5.3	29
39	Fractural structure of thick hard roof stratum using long beam theory and numerical modeling. Environmental Earth Sciences, 2017, 76, 1.	2.7	29
40	A Prognostic Approach Based on Fuzzy-Logic Methodology to Forecast PM10 Levels in Khaldiya Residential Area, Kuwait. Aerosol and Air Quality Research, 2012, 12, 1217-1236.	2.1	28
41	A novel ANN approach for modeling of alternating pulse current electrocoagulation-flotation (APC-ECF) process: Humic acid removal from aqueous media. Chemical Engineering Research and Design, 2018, 117, 111-124.	5.6	26
42	Optimization and Modeling of Tetracycline Removal from Wastewater by Three-Dimensional Electrochemical System: Application of Response Surface Methodology and Least Squares Support Vector Machine. Environmental Modeling and Assessment, 2020, 25, 327-341.	2.2	26
43	A composite desirability function-based modeling approach in predicting mass condensate flux of condenser in seawater greenhouse. Desalination, 2014, 344, 171-180.	8.2	25
44	A benchmark comparison and optimization of Gaussian process regression, support vector machines, and M5P tree model in approximation of the lateral confinement coefficient for CFRP-wrapped rectangular/square RC columns. Engineering Structures, 2021, 246, 113106.	5.3	25
45	Evaluation of anaerobic biodegradability potential and comparative kinetics of different agro-industrial substrates using a new hybrid computational coding scheme. Journal of Cleaner Production, 2019, 238, 117921.	9.3	24
46	Equilibrium and Kinetic Studies of Trihalomethanes Adsorption onto Multi-walled Carbon Nanotubes. Water, Air, and Soil Pollution, 2016, 227, 1.	2.4	23
47	Adsorptive removal of nickel and lead ions from aqueous solutions by poly (amidoamine) (PAMAM) dendrimers (<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline") Tj ETQq1 1 0.784314 rgBT /Overlock 10 Environmental Technology and Innovation, 2018, 12, 261-272.	6.1	23
48	Application of Orchis mascula tuber starch as a natural coagulant for oily-saline wastewater treatment: Modeling and optimization by multivariate adaptive regression splines method and response surface methodology. Journal of Environmental Chemical Engineering, 2021, 9, 104745.	6.7	23
49	Electrodegradation of tetracycline using stainless steel net electrodes: Screening of main effective parameters and interactions by means of a two-level factorial design. Korean Journal of Chemical Engineering, 2017, 34, 2999-3008.	2.7	22
50	Prediction of optimum sampling rates of air quality monitoring stations using hierarchical fuzzy logic control system. Atmospheric Pollution Research, 2019, 10, 1931-1943.	3.8	22
51	Assessment of indoor air pollution exposure in urban hospital microenvironments. Air Quality, Atmosphere and Health, 2019, 12, 151-159.	3.3	22
52	Approximation of the discharge coefficient of differential pressure flowmeters using different soft computing strategies. Flow Measurement and Instrumentation, 2021, 79, 101913.	2.0	21
53	Determination of Optimum Body Diameter of Air Cyclones Using a New Empirical Model and a Neural Network Approach. Environmental Engineering Science, 2006, 23, 680-690.	1.6	20
54	Utilization of struvite recovered from high-strength ammonium-containing simulated wastewater as slow-release fertilizer and fire-retardant barrier. Environmental Technology (United Kingdom), 2020, 41, 153-170.	2.2	19

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55	Removal of Anthraquinone Dye via Struvite: Equilibria, Kinetics, Thermodynamics, Fuzzy Logic Modeling. International Journal of Environmental Research, 2020, 14, 541-566.	2.3	19
56	Post-treatment of secondary wastewater treatment plant effluent using a two-stage fluidized bed bioreactor system. Journal of Environmental Health Science & Engineering, 2013, 11, 10.	3.0	18
57	Fuzzy-logic modeling of Fentonâ€™s strong chemical oxidation process treating three types of landfill leachates. Environmental Science and Pollution Research, 2013, 20, 4235-4253.	5.3	17
58	Adaptive neuro-fuzzy inference-based modeling of a full-scale expanded granular sludge bed reactor treating corn processing wastewater. Journal of Intelligent and Fuzzy Systems, 2015, 28, 1601-1616.	1.4	17
59	Adsorption of ethidium bromide (EtBr) from aqueous solutions by natural pumice and aluminium-coated pumice. Journal of Molecular Liquids, 2016, 213, 41-47.	4.9	17
60	Assessment of indoor and outdoor particulate air pollution at an urban background site in Iran. Environmental Monitoring and Assessment, 2017, 189, 235.	2.7	16
61	A mini literature review on sustainable management of poultry abattoir wastes. Journal of Material Cycles and Waste Management, 2020, 22, 11-21.	3.0	16
62	POST TREATMENT OF POULTRY SLAUGHTERHOUSE WASTEWATER AND APPRAISAL OF THE ECONOMIC OUTCOME. Environmental Engineering and Management Journal, 2011, 10, 1635-1645.	0.6	16
63	Vermicomposting of biomass ash with bio-waste for solubilizing nutrients and its effect on nitrogen fixation in common beans. Environmental Technology and Innovation, 2021, 23, 101691.	6.1	15
64	A Surrogateâ€Based Optimization Methodology for the Optimal Design of an Air Quality Monitoring Network. Canadian Journal of Chemical Engineering, 2015, 93, 1176-1187.	1.7	14
65	Effects of poultry abattoir sludge amendment on feedstock composition, energy content, and combustion emissions of giant reed (Arundo donax L.). Journal of King Saud University - Science, 2020, 32, 149-155.	3.5	14
66	Application of zeolite/kaolin combination for replacement of partial cement clinker to manufacture environmentally sustainable cement in Oman. Environmental Engineering Research, 2019, 24, 246-253.	2.5	14
67	Composite desirability functionâ€based empirical modeling for packed tower design in physical ammonia absorption. Asia-Pacific Journal of Chemical Engineering, 2012, 7, 795-813.	1.5	13
68	Agroâ€economic and ecological assessment of poultry abattoir sludge as bioâ€nutrient source for walnut plantation in lowâ€fertility soil. Environmental Progress and Sustainable Energy, 2019, 38, 13225.	2.3	13
69	Effect of extracellular enzyme activity on digestion performance of mesophilic UASB reactor treating high-strength municipal wastewater. Bioprocess and Biosystems Engineering, 2011, 34, 389-401.	3.4	12
70	Application of fuzzy logic methodology for predicting dynamic measurement errors related to process parameters of coordinate measuring machines. Journal of Intelligent and Fuzzy Systems, 2015, 29, 1619-1633.	1.4	12
71	A techno-sustainable bio-waste management strategy for closing chickpea yield gap. Waste Management, 2021, 119, 356-364.	7.4	12
72	IMECEâ€”Implementation of mathematical, experimental, and computerâ€based education: A special application of fluid mechanics for civil and environmental engineering students. Computer Applications in Engineering Education, 2017, 25, 833-860.	3.4	11

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73	A decision-making framework for sustainable management of groundwater resources under uncertainty: combination of Bayesian risk approach and statistical tools. Water Policy, 2019, 21, 602-622.	1.5	11
74	Development of a New Practical Formula for Pipe-Sizing Problems within the Framework of a Hybrid Computational Strategy. Journal of Irrigation and Drainage Engineering - ASCE, 2021, 147, .	1.0	11
75	Realization and engineering application ofÂhydraulic support optimization inÂresidual coal remining. Journal of Intelligent and Fuzzy Systems, 2017, 32, 2207-2219.	1.4	10
76	Optimisation using prediction models: air cyclones' body diameter/pressure drop. Filtration and Separation, 2005, 42, 32-35.	0.0	9
77	Segmental adjustment of hydraulic support setting load in hard and thick coal wall weakening: a study of numerical simulation and field measurement. Journal of Geophysics and Engineering, 2018, 15, 2481-2491.	1.4	9
78	Wind power conversion system model identification using adaptive neuro-fuzzy inference systems: A case study. Energy, 2022, 239, 122089.	8.8	9
79	A comprehensive techno-economic analysis of income-generating sources on the conversion of real sheep slaughterhouse waste stream into valorized by-products. Journal of Environmental Management, 2022, 306, 114464.	7.8	9
80	Implementation of fuzzy logic approach to estimate the degree of expulsion and spattering index and weld strength in projection welding. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	1.6	8
81	A NEW SIMPLE MODEL FOR THE PREDICTION OF WASTE SLUDGE FLOW RATE IN THE STEADY-STATE COMPLETELY MIXED ACTIVATED SLUDGE PROCESS. Environmental Engineering and Management Journal, 2016, 15, 2613-2630.	0.6	8
82	Anaerobic treatment of ozonated membrane concentrate. Desalination and Water Treatment, 2015, 54, 2075-2081.	1.0	7
83	Risk assessment of workers exposed to crystalline silica aerosols. Human and Ecological Risk Assessment (HERA), 2016, 22, 1678-1686.	3.4	7
84	Production of environmentally friendly cements using synthetic zeolite catalyst as the pozzolanic material. Clean Technologies and Environmental Policy, 2019, 21, 1829-1839.	4.1	7
85	Modelling the clogging of gas turbine filter houses in heavy-duty power generation systems. Mathematical and Computer Modelling of Dynamical Systems, 2020, 26, 119-143.	2.2	7
86	Modeling the flow rate of dry part in the wet gas mixture using decision tree/kernel/non-parametric regression-based soft-computing techniques. Flow Measurement and Instrumentation, 2022, 86, 102195.	2.0	7
87	MATLAB time-based simulations of projectile motion, pendulum oscillation, and water discharge. European Journal of Physics, 2018, 39, 065803.	0.6	6
88	Facile synthesis and characterization of Zn5(OH)8Cl2Â·H2O nanostructure for the biomethanation process. Materials Letters, 2021, 282, 128808.	2.6	6
89	A cartographic approach coupled with optimized sizing and management of an on-grid hybrid PV-solar-battery-group based on the state of the sky: An african case study. Solar Energy, 2021, 227, 101-115.	6.1	6
90	Black-, gray-, and white-box modeling of biogas production rate from a real-scale anaerobic sludge digestion system in a biological and advanced biological treatment plant. Neural Computing and Applications, 2021, 33, 11043-11066.	5.6	6

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91	Screening plant growth effects of sheep slaughterhouse waste-derived soil amendments in greenhouse trials. Journal of Environmental Management, 2022, 318, 115586.	7.8	6
92	Use of sheep slaughterhouse-derived struvite in the production of environmentally sustainable cement and fire-resistant wooden structures. Journal of Cleaner Production, 2022, 366, 132948.	9.3	6
93	Flux potentials of aerosols and their spatial variations in a coastal metropolis. Atmospheric Science Letters, 2014, 15, 227-238.	1.9	5
94	Application of solarization for sanitization of sewage sludge compost. Journal of King Saud University - Science, 2020, 32, 443-449.	3.5	5
95	Introduction of explicit equations for the estimation of surface tension, specific weight, and kinematic viscosity of water as a function of temperature. Fluid Mechanics Research International Journal, 2020, 4, 7-13.	0.6	5
96	Cutting-Caving Ratio Optimization of Fully Mechanized Caving Mining with Large Mining Height of Extremely Thick Coal Seam. Advances in Civil Engineering, 2019, 2019, 1-11.	0.7	4
97	Mitigation of soil loss from turfgrass cultivation by utilizing poultry abattoir sludge compost and biochar on low-organic matter soil. Environmental Technology (United Kingdom), 2020, 41, 466-477.	2.2	4
98	Effect of Washing and Cooking on Nitrate Content of Potatoes (cv. Diamant) and Implications for Mitigating Human Health Risk in Iran. Potato Research, 2020, 63, 449-462.	2.7	4
99	Appraisal of methane production and anaerobic fermentation kinetics of livestock manures using artificial neural networks and sinusoidal growth functions. Journal of Material Cycles and Waste Management, 2021, 23, 301-314.	3.0	4
100	Applications of Soft Computing Methods in Environmental Engineering. , 2019, , 2001-2046.		4
101	A BENCHMARKING OF COMPETING BIO-OBJECTIVE FUNCTIONS FOR MULTIRESPONSE OPTIMIZATION OF UASB SYSTEM IN PRETREATMENT OF POULTRY MANURE SLURRY. International Journal for Multiscale Computational Engineering, 2017, 15, 477-504.	1.2	4
102	Sliding instability characteristics and re-stabilization mechanism of key stratum in thin-topsoil SCS mining: a computer-aided case study from the Niushan Coal Mine, China. Environmental Earth Sciences, 2020, 79, 1.	2.7	3
103	Mathematical Modeling of Thin-Layer Solar Drying of Poultry Abattoir Sludge. International Journal of Environmental Research, 2021, 15, 177-190.	2.3	3
104	Dynamic failure and stability model analysis of thick and hard rock with wedge-structure immediate roof occurrence. Geomechanics and Geophysics for Geo-Energy and Geo-Resources, 2021, 7, 1.	2.9	3
105	Modeling of formaldehyde and nitrogen oxides from a proposed renewable energy biogas facility in Canada. Journal of Renewable and Sustainable Energy, 2014, 6, 043121.	2.0	2
106	Study of heavy metal levels in seawater in the vicinity of Single Buoy Moorings at Mina Al Fahal, Sultanate of Oman. Environmental Forensics, 2016, 17, 203-210.	2.6	2
107	Applications of Soft Computing Methods in Environmental Engineering. , 2018, , 1-47.		2
108	Mechanical Modeling of Roof Fracture Instability Mechanism and Its Control in Top-Coal Caving Mining under Thin Topsoil of Shallow Coal Seam. Advances in Civil Engineering, 2019, 2019, 1-10.	0.7	2

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109	Mechanism of Support Optimization and Confined Blasting of Thick and Hard Rock with a Wedge-Structure Immediate Roof: A Case Study. Geofluids, 2021, 2021, 1-11.	0.7	1
110	Accurate Perception of Rock Strata Movement for Environmental Protection in Coal Mining: Taking Thick and Hard Roof Cooperative Control as an Example. Advances in Civil Engineering, 2021, 2021, 1-12.	0.7	0
111	A Synergistic Assessment of Bio-kinetics and Life Cycle Environmental Impacts of Different Agricultural Biomass Sources in Turkey. Waste and Biomass Valorization, 0, , 1.	3.4	0
112	Closure to â€œDevelopment of a New Practical Formula for Pipe-Sizing Problems within the Framework of a Hybrid Computational Strategyâ€• by Kaan Yetilmezsoy, Majid Bahramian, Emel KÄ±yan, and Mojtaba Bahramian. Journal of Irrigation and Drainage Engineering - ASCE, 2022, 148, .	1.0	0