List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Effects of binary hybrid nanofluid on heat transfer and fluid flow in a triangular-corrugated channel: An experimental and numerical study. Powder Technology, 2022, 395, 267-279.	2.1	21
2	Effect of ozonation-based disinfection methods on the removal of antibiotic resistant bacteria and resistance genes (ARB/ARGs) in water and wastewater treatment: a systematic review. Science of the Total Environment, 2022, 811, 151404.	3.9	53
3	Prussian blue-conjugated ZnO nanoparticles for near-infrared light-responsive photocatalysis. Materials Today Energy, 2022, 23, 100895.	2.5	14
4	Hydrothermal and energy analysis of flat plate solar collector using copper oxide nanomaterials with different morphologies: Economic performance. Sustainable Energy Technologies and Assessments, 2022, 49, 101772.	1.7	5
5	Concentration polarization control in stand-alone and hybrid forward osmosis systems: Recent technological advancements and future directions. Chemical Engineering Research and Design, 2022, 178, 199-223.	2.7	9
6	Treatment of synthetic dye containing textile raw wastewater effluent using UV/Chlorine/Br photolysis process followed by activated carbon adsorption. Environmental Science and Pollution Research, 2022, 29, 39400-39409.	2.7	12
7	Rational design of ZnO-zeolite imidazole hybrid nanoparticles with reduced charge recombination for enhanced photocatalysis. Journal of Colloid and Interface Science, 2022, 614, 538-546.	5.0	36
8	Development of machine learning and stepwise mechanistic models for performance prediction of direct contact membrane distillation module- A comparative study. Chemical Engineering and Processing: Process Intensification, 2022, 173, 108857.	1.8	10
9	Effects of influent physicochemical characteristics on air dissolution, bubble size and rise velocity in dissolved air flotation: A review. Separation and Purification Technology, 2022, 289, 120772.	3.9	38
10	A review on state-of-the-art applications of data-driven methods in desalination systems. Desalination, 2022, 532, 115744.	4.0	22
11	Performance analysis of tubular membrane distillation modules: An experimental and CFD analysis. Chemical Engineering Research and Design, 2022, 183, 478-493.	2.7	4
12	Methodology for spatially resolved transient convection processes using infrared thermography. Experimental Heat Transfer, 2021, 34, 269-292.	2.3	12
13	An Adsorption–Catalysis Pathway toward Sustainable Application of Mesoporous Carbon Nanospheres for Efficient Environmental Remediation. ACS ES&T Water, 2021, 1, 145-156.	2.3	21
14	A comparative study of various machine learning methods for performance prediction of an evaporative condenser. International Journal of Refrigeration, 2021, 126, 280-290.	1.8	18
15	Quantifying techno-economic indicators' impact on isolated renewable energy systems. IScience, 2021, 24, 102730.	1.9	5
16	Development of artificial neural networks for performance prediction of a heat pump assisted humidification-dehumidification desalination system. Desalination, 2021, 508, 115052.	4.0	36
17	Flow and heat transfer characteristics of turbulent swirling impinging jets. Applied Thermal Engineering, 2021, 196, 117357.	3.0	9
18	CFD-PBM and experimental investigation of a shear thinning fluid in a gas-liquid tank agitated by a helical ribbon impeller. Separation and Purification Technology, 2021, 272, 118855.	3.9	21

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19	Microplastics fouling and interaction with polymeric membranes: A review. Chemosphere, 2021, 283, 131185.	4.2	49
20	Semifluidized Bed Adsorption Column Studies for Simultaneous Removal of Aqueous Phase Pb2+ and Cd2+ by Composite Adsorbents: an Experimental and Mass Transfer Dynamic Model–Based Approach. Water, Air, and Soil Pollution, 2021, 232, 1.	1.1	2
21	Phase change materials (PCMs) for improving solar still productivity: a review. Journal of Thermal Analysis and Calorimetry, 2020, 139, 1585-1617.	2.0	63
22	Nozzle exit conditions and the heat transfer in non-swirling and weakly swirling turbulent impinging jets. Heat and Mass Transfer, 2020, 56, 269-290.	1.2	11
23	Performance of a dual helical ribbon impeller in a two-phase (gas-liquid) stirred tank reactor. Chemical Engineering and Processing: Process Intensification, 2020, 148, 107811.	1.8	28
24	Optimal sizing design and operation of electrical and thermal energy storage systems in smart buildings. Journal of Energy Storage, 2020, 28, 101186.	3.9	68
25	Preparation and Characterization of Raw and Inorganic Acid-Activated Pine Cone Biochar and Its Application in the Removal of Aqueous-Phase Pb2+ Metal Ions by Adsorption. Water, Air, and Soil Pollution, 2020, 231, 1.	1.1	36
26	A real-time energy management strategy for pumped hydro storage systems in farmhouses. Journal of Energy Storage, 2020, 32, 101928.	3.9	12
27	A multipurpose desalination, cooling, and air-conditioning system powered by waste heat recovery from diesel exhaust fumes and cooling water. Case Studies in Thermal Engineering, 2020, 21, 100702.	2.8	25
28	Effect of hybrid (microwave-H2O2) feed sludge pretreatment on single and two-stage anaerobic digestion efficiency of real mixed sewage sludge. Chemical Engineering Research and Design, 2020, 136, 194-202.	2.7	22
29	Comparison and verification of turbulence Reynolds-averaged Navier–Stokes closures to model spatially varied flows. Scientific Reports, 2020, 10, 19059.	1.6	6
30	Aqueous phase phenol removal from synthetic and real steel plant effluents through a batch and Semifluidized bed column operation: Experimental and model analysis. Journal of Environmental Chemical Engineering, 2020, 8, 104441.	3.3	4
31	Socio-Hydrological Modelling to Assess Reliability of an Urban Water System under Formal-Informal Supply Dynamics. Water (Switzerland), 2020, 12, 2795.	1.2	2
32	Assessment of reference evapotranspiration across an arid urban environment having poor data monitoring system. Hydrological Processes, 2020, 34, 4000-4016.	1.1	12
33	Integration of heat pipe solar water heating systems with different residential households: An energy, environmental, and economic evaluation. Case Studies in Thermal Engineering, 2020, 21, 100662.	2.8	20
34	Modelling, design, and experimental validation of a grid-connected farmhouse comprising a photovoltaic and a pumped hydro storage system. Energy Conversion and Management, 2020, 210, 112675.	4.4	21
35	A solar membrane-based wastewater treatment system for high-quality water production. Energy, 2020, 206, 118233.	4.5	7
36	A novel photovoltaic-pumped hydro storage microgrid applicable to rural areas. Applied Energy, 2020, 262, 114284.	5.1	42

3

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37	Effect of salinity on air dissolution, size distribution of microbubbles, and hydrodynamics of a dissolved air flotation (DAF) system. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 591, 124547.	2.3	24
38	Performance improvement of thermal-driven membrane-based solar desalination systems using nanofluid in the feed stream. Sustainable Energy Technologies and Assessments, 2020, 39, 100715.	1.7	15
39	Water-stable MOFs-based core-shell nanostructures for advanced oxidation towards environmental remediation. Composites Part B: Engineering, 2020, 192, 107985.	5.9	36
40	Comparative and performative investigation of various data-based and conventional theoretical methods for modelling heat pipe solar collectors. Solar Energy, 2020, 198, 212-223.	2.9	25
41	Evaporation rates and temperature distributions in fine droplet flash evaporation sprays. International Journal of Thermal Sciences, 2019, 145, 106037.	2.6	18
42	Experimental and mathematical investigations of spray angle and droplet sizes of a flash evaporation desalination system. Powder Technology, 2019, 355, 542-551.	2.1	31
43	Optimal allocation of distributed energy storage systems to improve performance and power quality of distribution networks. Applied Energy, 2019, 252, 113468.	5.1	81
44	Performance improvement of spray flash evaporation desalination systems using multiple nozzle arrangement. Applied Thermal Engineering, 2019, 163, 114385.	3.0	18
45	A novel solar-driven direct contact membrane-based water desalination system. Energy Conversion and Management, 2019, 199, 112055.	4.4	49
46	Theoretical modelling approaches of heat pipe solar collectors in solar systems: A comprehensive review. Solar Energy, 2019, 193, 227-243.	2.9	26
47	Transient heat transfer characteristics of swirling and non-swirling turbulent impinging jets. Experimental Thermal and Fluid Science, 2019, 109, 109917.	1.5	10
48	An optimal allocation and sizing strategy of distributed energy storage systems to improve performance of distribution networks. Journal of Energy Storage, 2019, 26, 100847.	3.9	35
49	Strategies to improve the thermal performance of heat pipe solar collectors in solar systems: A review. Energy Conversion and Management, 2019, 183, 307-331.	4.4	83
50	Parametric design exploration of fin-and-oval tube compact heat exchangers performance with a new type of corrugated fin patterns. International Journal of Thermal Sciences, 2019, 144, 173-190.	2.6	35
51	Performance analysis of a thermal-driven tubular direct contact membrane distillation system. Applied Thermal Engineering, 2019, 159, 113887.	3.0	21
52	Effects of internal geometry on hydrodynamics of dissolved air flotation (DAF) tank: An experimental study using particle image velocimetry (PIV). Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 575, 382-390.	2.3	13
53	Enhancing heat pipe solar water heating systems performance using a novel variable mass flow rate technique and different solar working fluids. Solar Energy, 2019, 186, 191-203.	2.9	38
54	Transparent polymers to emulate the rheological properties of primary, activated, and digested sludge. Chemical Engineering Research and Design, 2019, 146, 404-415.	2.7	10

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55	An improved mathematical model for a pumped hydro storage system considering electrical, mechanical, and hydraulic losses. Applied Energy, 2019, 247, 228-236.	5.1	43
56	Thermal performance of an evacuated tube heat pipe solar water heating system in cold season. Applied Thermal Engineering, 2019, 149, 644-657.	3.0	74
57	A comparative study of predicting oxygen transfer in weirs and water jets in cross-flows. Water Management, 2019, 172, 14-29.	0.4	1
58	Experimental investigation and analysis of a new single-stage vacuum spray flash desalinator utilising a gas-liquid ejector. Journal of Cleaner Production, 2018, 190, 118-127.	4.6	4
59	A review of latest developments, progress, and applications of heat pipe solar collectors. Renewable and Sustainable Energy Reviews, 2018, 95, 273-304.	8.2	122
60	Calibration of Valiantzas' reference evapotranspiration equations for the Pilbara region, Western Australia. Theoretical and Applied Climatology, 2017, 128, 845-856.	1.3	22
61	Modelling of moving bed biofilm reactor (MBBR) efficiency on hospital wastewater (HW) treatment: a comprehensive analysis on BOD and COD removal. International Journal of Environmental Science and Technology, 2017, 14, 841-852.	1.8	23
62	Experimental Study on Oxygen Transfer Capacity of Water Jets Discharging into Turbulent Cross-Flow. Journal of Environmental Engineering, ASCE, 2017, 143, 04017007.	0.7	11
63	Reoxygenation by Free, Wall-Supported, and Plate-Supported Rectangular Jets Plunging into a Quiescent Pool. Journal of Environmental Engineering, ASCE, 2017, 143, .	0.7	6
64	A numerical model and experimental verification for analysing a new vacuum spray flash desalinator utilising low grade energy. Desalination, 2017, 413, 109-118.	4.0	30
65	Largeâ€scale regional delineation of riparian vegetation in the arid and semiâ€arid Pilbara region, WA. Hydrological Processes, 2017, 31, 4269-4281.	1.1	15
66	Spatially Varied Open-Channel Flow with Increasing Discharge Equation. Journal of Hydraulic Engineering, 2017, 143, 04016089.	0.7	2
67	Delineation of riparian vegetation from Landsat multi-temporal imagery using PCA. Hydrological Processes, 2017, 31, 800-810.	1.1	11
68	Oxygen Transfer by Multiple Vertical Plunging Jets in Tandem. Journal of Environmental Engineering, ASCE, 2017, 143, .	0.7	9
69	Efficiency of a Combined Desalination and Power System Utilizing a Two-Phase Flow Multistream Heat Exchanger. Heat Transfer Engineering, 2017, 38, 1000-1007.	1.2	7
70	Developing Equations for Estimating Reference Evapotranspiration in Australia. Water Resources Management, 2016, 30, 3815-3828.	1.9	31
71	Optimised exergy efficiency of a combined flash spray desalinator recovering discharge thermal energy. Desalination and Water Treatment, 2016, 57, 18588-18596.	1.0	5
72	A novel vacuum discharge thermal energy combined desalination and power generation system utilizing R290/R600a. Energy, 2016, 98, 215-224.	4.5	29

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73	Defluoridation of water using activated alumina in presence of natural organic matter via response surface methodology. Environmental Science and Pollution Research, 2016, 23, 887-897.	2.7	33
74	The Design and Construction of a High Efficiency Satellite Electrical Power Supply System. Journal of Power Electronics, 2016, 16, 666-674.	0.9	11
75	Assessment of Artificial Neural Networks and IHACRES models for simulating streamflow in Marillana catchment in the Pilbara, Western Australia. Australian Journal of Water Resources, 2015, 19, 116-126.	1.6	7
76	Photocatalytic Degradation of the Azo Dye Acid Red 14 in Nanosized TiO ₂ Suspension under Simulated Solar Light. Clean - Soil, Air, Water, 2015, 43, 1037-1043.	0.7	13
77	Multivariate detection and attribution of land-cover changes in the Central Pilbara, Western Australia. International Journal of Remote Sensing, 2015, 36, 2599-2621.	1.3	7
78	Comparison of Simulation Methods for Recharge Mounds Under Rectangular Basins. Water Resources Management, 2015, 29, 2855-2874.	1.9	6
79	Performance analysis of a low pressure discharge thermal energy combined desalination unit. Applied Thermal Engineering, 2015, 76, 116-122.	3.0	14
80	Applicability of universal Bacteroidales genetic marker for microbial monitoring of drinking water sources in comparison to conventional indicators. Environmental Monitoring and Assessment, 2014, 186, 7055-7062.	1.3	10
81	Removal of turbidity from water by dissolved air flotation and conventional sedimentation systems using poly aluminum chloride as coagulant. Desalination and Water Treatment, 2014, 52, 985-989.	1.0	9
82	Improving urban run-off quality using iron oxide nanoparticles with magnetic field. Desalination and Water Treatment, 2014, 52, 678-682.	1.0	3
83	Validation of linear and non-linear kinetic modeling of saline wastewater treatment by sequencing batch reactor with adapted and non-adapted consortiums. Desalination, 2014, 344, 228-235.	4.0	50
84	Urban runoff treatment using nano-sized iron oxide coated sand with and without magnetic field applying. Journal of Environmental Health Science & Engineering, 2013, 11, 43.	1.4	13
85	Multi-Component Adsorption of Benzene, Toluene, Ethylbenzene, and Xylene from Aqueous Solutions by Montmorillonite Modified with Tetradecyl Trimethyl Ammonium Bromide. Journal of Chemistry, 2013, 2013, 1-10.	0.9	33
86	Application of <i>Glycyrrhiza glabra</i> Root as a Novel Adsorbent in the Removal of Toluene Vapors: Equilibrium, Kinetic, and Thermodynamic Study. Journal of Environmental and Public Health, 2013, 2013, 1-7.	0.4	9
87	Turbulence measurements in spatially-varied flow with increasing discharge. Journal of Hydraulic Research/De Recherches Hydrauliques, 2012, 50, 418-426.	0.7	5
88	Removal of benzene, toluene, ethylbenzene and xylene (BTEX) from aqueous solutions by montmorillonite modified with nonionic surfactant: Equilibrium, kinetic and thermodynamic study. Chemical Engineering Journal, 2012, 191, 341-348.	6.6	152
89	Treatment of saline wastewater by a sequencing batch reactor with emphasis on aerobic granule formation. Bioresource Technology, 2012, 111, 21-26.	4.8	47
90	Determining Chlorine Decay Constants in Isfahan Water Transportation Pipeline. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	0

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91	Velocity Distributions in Spatially Varied Flow with Increasing Discharge. Journal of Hydraulic Engineering, 2007, 133, 721-735.	0.7	8
92	Boundary Shear Stress in Spatially Varied Flow with Increasing Discharge. Journal of Hydraulic Engineering, 2005, 131, 705-714.	0.7	16
93	Friction Factors for Spatially Varied Flow with Increasing Discharge. Journal of Hydraulic Engineering, 2005, 131, 792-799.	0.7	23
94	Pb (II) ions sequestration from aqueous solutions by canola stalk: isotherms and kinetics studies. , 0, 118, 205-215.		1
95	Effect of salinity and temperature on air dissolution in an unpacked air saturator of a dissolved air flotation system. , 0, 170, 91-100.		4
96	Evaluating the spatiotemporal variations of daytime surface and canopy urban heat islands: an arid climate case study. Journal of Environmental Planning and Management, 0, , 1-22.	2.4	0