

Farayi Musharavati

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

60 papers	562 citations	14 h-index	20 g-index
70 ext. papers	1,030 ext. citations	4.9 avg, IF	5.11 L-index

#	Paper	IF	Citations
60	Electrodeposited Ni Co layered double hydroxides on titanium carbide as a binder-free electrode for supercapacitors. <i>Electrochimica Acta</i> , 2018 , 261, 178-187	6.7	92
59	Synthesis, characterization, and properties of nickel-cobalt layered double hydroxide nanostructures. <i>RSC Advances</i> , 2017 , 7, 38945-38950	3.7	30
58	Investigation of the Electrochemical Properties of CoAl-Layered Double Hydroxide/Ni(OH) ₂ . <i>Journal of the Electrochemical Society</i> , 2018 , 165, A407-A415	3.9	26
57	Experimental investigation of the three-point bending properties of sandwich beams with polyurethane foam-filled lattice cores. <i>Structures</i> , 2020 , 28, 424-432	3.4	26
56	Development, evaluation, and multi-objective optimization of a multi-effect desalination unit integrated with a gas turbine plant. <i>Applied Thermal Engineering</i> , 2020 , 176, 115414	5.8	20
55	Detection and Severity Classification of COVID-19 in CT Images Using Deep Learning. <i>Diagnostics</i> , 2021 , 11,	3.8	19
54	Synthesis and characterization of cobalt hydroxide carbonate nanostructures. <i>RSC Advances</i> , 2017 , 7, 46925-46931	3.7	18
53	Design and comparative exergy and exergo-economic analyses of a novel integrated Kalina cycle improved with fuel cell and thermoelectric module. <i>Energy Conversion and Management</i> , 2020 , 220, 113081	10.6	18
52	Proposed a new geothermal based poly-generation energy system including Kalina cycle, reverse osmosis desalination, electrolyzer amplified with thermoelectric: 3E analysis and optimization. <i>Applied Thermal Engineering</i> , 2021 , 187, 116596	5.8	17
51	A novel multi-generation energy system based on geothermal energy source: Thermo-economic evaluation and optimization. <i>Energy Conversion and Management</i> , 2021 , 230, 113829	10.6	16
50	Enhancing the performance of an integrated CCHP system including ORC, Kalina, and refrigeration cycles through employing TEG: 3E analysis and multi-criteria optimization. <i>Geothermics</i> , 2021 , 89, 101973	4.3	15
49	Solar still desalination system equipped with paraffin as phase change material: exergoeconomic analysis and multi-objective optimization. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 220-234	5.1	15
48	Ocean thermal energy conversion (OTEC) system boosted with solar energy and TEG based on exergy and exergo-environment analysis and multi-objective optimization. <i>Solar Energy</i> , 2020 , 208, 559-572	6.8	14
47	Multi-objective optimization of a biomass gasification to generate electricity and desalinated water using Grey Wolf Optimizer and artificial neural network. <i>Chemosphere</i> , 2022 , 287, 131980	8.4	14
46	Proposal of a new parabolic solar collector assisted power-refrigeration system integrated with thermoelectric generator using 3E analyses: Energy, exergy, and exergo-economic. <i>Energy Conversion and Management</i> , 2020 , 220, 113055	10.6	13
45	Supercapacitor Performance of Nickel-Cobalt Sulfide Nanotubes Decorated Using Ni Co-Layered Double Hydroxide Nanosheets Grown in Situ on Ni Foam. <i>Nanomaterials</i> , 2020 , 10,	5.4	13
44	Underwater friction stir welding of Al-Mg alloy: Thermo-mechanical modeling and validation. <i>Materials Today Communications</i> , 2021 , 26, 101965	2.5	13

43	Synthesis and Characterization of a NiCoO@NiCoO Hierarchical Mesoporous Nanoflake Electrode for Supercapacitor Applications. <i>Nanomaterials</i> , 2020 , 10,	5.4	12
42	Waste heat recovery in an intercooled gas turbine system: Exergo-economic analysis, triple objective optimization, and optimum state selection. <i>Journal of Cleaner Production</i> , 2021 , 279, 123428	10.3	12
41	An Intelligent Hybrid Experimental-Based Deep Learning Algorithm for Tomato-Sorting Controllers. <i>IEEE Access</i> , 2019 , 7, 106890-106898	3.5	11
40	Supercapacitor performance of porous nickel cobaltite nanosheets. <i>Scientific Reports</i> , 2020 , 10, 18956	4.9	10
39	Severity of corrosion under insulation (CUI) to structures and strategies to detect it. <i>Corrosion Reviews</i> , 2019 , 37, 553-564	3.2	10
38	Mechanical behavior of resin pin-reinforced composite sandwich panels under quasi-static indentation and three-point bending loading conditions. <i>Journal of Sandwich Structures and Materials</i> , 2020 , 109963622090975	2.1	9
37	Multi-generation energy system based on geothermal source to produce power, cooling, heating, and fresh water: Exergoeconomic analysis and optimum selection by LINMAP method. <i>Applied Thermal Engineering</i> , 2021 , 195, 117127	5.8	9
36	Tribo-mechanical properties evaluation of HA/TiO/CNT nanocomposite. <i>Scientific Reports</i> , 2021 , 11, 18674.9	4.9	8
35	Review on Medical Implantable Antenna Technology and Imminent Research Challenges. <i>Sensors</i> , 2021 , 21,	3.8	7
34	Tribo-Mechanical Properties and Corrosion Behavior Investigation of Anodized TiV Alloy. <i>Coatings</i> , 2018 , 8, 459	2.9	7
33	Angle-insensitive co-polarized metamaterial absorber based on equivalent circuit analysis for dual band WiFi applications. <i>Scientific Reports</i> , 2021 , 11, 13791	4.9	7
32	Comparative analysis and multi-criteria optimization of a supercritical recompression CO2 Brayton cycle integrated with thermoelectric modules. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 145, 769-785	4.1	6
31	Investigation of the Temperature-Related Wear Performance of Hard Nanostructured Coatings Deposited on a S600 High Speed Steel. <i>Metals</i> , 2019 , 9, 332	2.3	5
30	Multiple parts process planning in serial-parallel flexible flow lines: part I process plan modeling framework. <i>International Journal of Advanced Manufacturing Technology</i> , 2015 , 78, 115-137	3.2	5
29	Deep Learning for Reliable Classification of COVID-19, MERS, and SARS from Chest X-ray Images.. <i>Cognitive Computation</i> , 2022 , 1-21	4.4	5
28	A new design of solar tower system amplified with a thermoelectric unit to produce distilled water and power. <i>Applied Thermal Engineering</i> , 2021 , 197, 117406	5.8	5
27	Operations optimization towards high performance cooling in commercial buildings 2013 ,		4
26	Dynamic aggregated building electricity load modeling and simulation. <i>Simulation Modelling Practice and Theory</i> , 2014 , 42, 19-31	3.9	4

25	Proposal of a new low-temperature thermodynamic cycle: 3E analysis and optimization of a solar pond integrated with fuel cell and thermoelectric generator. <i>Journal of Cleaner Production</i> , 2021 , 331, 129908	10.3	4
24	Elastic Wave Characteristics of Graphene Reinforced Polymer Nanocomposite Curved Beams Including Thickness Stretching Effect. <i>Polymers</i> , 2020 , 12,	4.5	4
23	Exergoeconomic assessment and multiobjective optimization of a geothermal-based trigeneration system for electricity, cooling, and clean hydrogen production. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 145, 1673-1689	4.1	4
22	Improving the power generation efficiency with the use of LNG as cold source by thermoelectric generators for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 26905-26919	6.7	3
21	Solar-based Kalina cycle integrated with PEM fuel cell boosted by thermoelectric generator: Development and thermodynamic analysis. <i>International Journal of Green Energy</i> , 2021 , 18, 866-878	3	3
20	Design and exergy based optimization of a clean energy system with fuel Cell/MED and hydrogen storage option. <i>International Journal of Hydrogen Energy</i> , 2021 ,	6.7	3
19	Forced vibration characteristics of embedded graphene oxide powder reinforced metal foam nanocomposite plate in thermal environment. <i>Case Studies in Thermal Engineering</i> , 2021 , 27, 101167	5.6	3
18	Multiple parts process planning in serial/parallel flexible flow lines: part II Evolution method based on genetic algorithms with fixed- and variable-length chromosomes. <i>International Journal of Advanced Manufacturing Technology</i> , 2015 , 77, 1105-1143	3.2	2
17	Dry Sliding Tribological Properties of a Hard Anodized AA6082 Aluminum Alloy. <i>Metals</i> , 2020 , 10, 207	2.3	2
16	Properties Investigation of GO/HA/Pt Composite Thin Film. <i>BioMed Research International</i> , 2019 , 2019, 4847932	3	2
15	Design, exergy analysis, and optimization of a hydrogen generation/storage energy system with solar heliostat fields and absorption-ejector refrigeration system. <i>International Journal of Hydrogen Energy</i> , 2021 ,	6.7	2
14	Advanced exergy investigation of a combined cooling and power system with low-temperature geothermal heat as a prime mover for district cooling applications. <i>Sustainable Energy Technologies and Assessments</i> , 2022 , 51, 101868	4.7	2
13	Comparative exergy, multi-objective optimization, and extended environmental assessment of geothermal combined power and refrigeration systems. <i>Chemical Engineering Research and Design</i> , 2021 ,	5.5	2
12	Thermodynamic modeling and comparative analysis of a compressed air energy storage system boosted with thermoelectric unit. <i>Journal of Energy Storage</i> , 2021 , 33, 101888	7.8	2
11	Evaluation of thermal comfort and cooling performance of residential buildings in arid climates 2013 ,		1
10	Finite Element Analysis of the Mechanism of Traumatic Aortic Rupture (TAR). <i>Computational and Mathematical Methods in Medicine</i> , 2020 , 2020, 6718495	2.8	1
9	Instrumented Hip Implant: A Review. <i>IEEE Sensors Journal</i> , 2021 , 21, 7179-7194	4	1
8	Optimization of wire electrical discharge turning process: trade-off between production rate and fatigue life. <i>International Journal of Advanced Manufacturing Technology</i> , 2021 , 112, 719-730	3.2	1

7	Effects of appearance characteristics on the mechanical properties of defective SWCNTs: using finite element methods and molecular dynamics simulation. <i>European Physical Journal Plus</i> , 2021 , 136, 1	3.1	1
6	HipXNet: Deep Learning Approaches to Detect Aseptic Loos-ening of Hip Implants using X-Ray Images. <i>IEEE Access</i> , 2022 , 1-1	3.5	1
5	Mathematical modeling of melting point and viscosity of a new molten salt for concentrating solar plant. <i>Journal of Thermal Analysis and Calorimetry</i> , 1	4.1	0
4	Energy Audit in Infrastructures 2018 , 305-314		
3	Simulation-Based Energy Performance of Low-Rise Buildings 2018 , 85-108		
2	Permeation of different cations through cathodically protected coated API X-120 steel at elevated temperature. <i>Materials Today: Proceedings</i> , 2021 , 46, 1600-1607	1.4	
1	Free vibration analysis and post-critical free vibrations of nanocomposite rotating beams reinforced with graphene platelet. <i>JVC/Journal of Vibration and Control</i> , 107754632110511	2	