

Agus P. Sasmito

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8829951/publications.pdf>

Version: 2024-02-01

193
papers

4,691
citations

81743

39
h-index

143772

57
g-index

195
all docs

195
docs citations

195
times ranked

3073
citing authors

#	ARTICLE	IF	CITATIONS
1	Dust dispersion and management in underground mining faces. International Journal of Mining Science and Technology, 2014, 24, 39-44.	4.6	128
2	Improved design for heat transfer performance of a novel phase change material (PCM) thermal energy storage (TES). Applied Thermal Engineering, 2013, 50, 896-907.	3.0	127
3	CFD simulation of methane dispersion and innovative methane management in underground mining faces. Applied Mathematical Modelling, 2014, 38, 3467-3484.	2.2	122
4	Advances in biofuel production from oil palm and palm oil processing wastes: A review. Biofuel Research Journal, 2016, 3, 332-346.	7.2	122
5	Some approaches to improve ventilation system in underground coal mines environment – A computational fluid dynamic study. Tunnelling and Underground Space Technology, 2013, 34, 82-95.	3.0	112
6	Transport Phenomena and Properties in Treelike Networks. Applied Mechanics Reviews, 2016, 68, .	4.5	94
7	Advances in proton exchange membrane fuel cell with dead-end anode operation: A review. Applied Energy, 2019, 252, 113416.	5.1	93
8	Numerical investigation of laminar heat transfer performance of various cooling channel designs. Applied Thermal Engineering, 2011, 31, 1293-1304.	3.0	90
9	Numerical evaluation of laminar heat transfer enhancement in nanofluid flow in coiled square tubes. Nanoscale Research Letters, 2011, 6, 376.	3.1	89
10	Measurement and modeling of thermal conductivity of graphene nanoplatelet water and ethylene glycol base nanofluids. International Journal of Heat and Mass Transfer, 2018, 123, 97-109.	2.5	82
11	Numerical investigation of mixing performance in microchannel T-junction with wavy structure. Computers and Fluids, 2014, 96, 10-19.	1.3	79
12	Numerical investigation of heat transfer performance of a rotating latent heat thermal energy storage. Applied Energy, 2018, 227, 542-554.	5.1	78
13	Computational evaluation of thermal management strategies in an underground mine. Applied Thermal Engineering, 2015, 90, 1144-1150.	3.0	77
14	Numerical evaluation of various gas and coolant channel designs for high performance liquid-cooled proton exchange membrane fuel cell stacks. Energy, 2012, 44, 278-291.	4.5	73
15	Simulation of a novel intermittent ventilation system for underground mines. Tunnelling and Underground Space Technology, 2014, 42, 206-215.	3.0	73
16	A FRACTAL NETWORK MODEL FOR FRACTURED POROUS MEDIA. Fractals, 2016, 24, 1650018.	1.8	71
17	Artificial ground freezing: A review of thermal and hydraulic aspects. Tunnelling and Underground Space Technology, 2020, 104, 103534.	3.0	69
18	Effect of operating parameters on the transient performance of a polymer electrolyte membrane fuel cell stack with a dead-end anode. Applied Energy, 2014, 130, 692-701.	5.1	67

#	ARTICLE	IF	CITATIONS
19	Conjugate heat transfer in artificial ground freezing using enthalpy-porosity method: Experiments and model validation. <i>International Journal of Heat and Mass Transfer</i> , 2018, 126, 740-752.	2.5	65
20	Performance evaluation of a polymer electrolyte fuel cell with a dead-end anode: A computational fluid dynamic study. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 10917-10933.	3.8	62
21	Numerical investigation of heat transfer and entropy generation of laminar flow in helical tubes with various cross sections. <i>Applied Thermal Engineering</i> , 2016, 102, 849-860.	3.0	62
22	Performance evaluation of large scale rock-pit seasonal thermal energy storage for application in underground mine ventilation. <i>Applied Energy</i> , 2017, 185, 1940-1947.	5.1	62
23	Computational study of forced air-convection in open-cathode polymer electrolyte fuel cell stacks. <i>Journal of Power Sources</i> , 2010, 195, 5550-5563.	4.0	61
24	Prediction and innovative control strategies for oxygen and hazardous gases from diesel emission in underground mines. <i>Science of the Total Environment</i> , 2014, 481, 317-334.	3.9	61
25	Laminar convective heat transfer in helical tube with twisted tape insert. <i>International Journal of Heat and Mass Transfer</i> , 2020, 150, 119309.	2.5	61
26	Numerical performance study of paraffin wax dispersed with alumina in a concentric pipe latent heat storage system. <i>Thermal Science</i> , 2013, 17, 419-430.	0.5	58
27	Passive thermal management for PEM fuel cell stack under cold weather condition using phase change materials (PCM). <i>Applied Thermal Engineering</i> , 2013, 58, 615-625.	3.0	57
28	Numerical Investigation of Liquid Water Cooling for a Proton Exchange Membrane Fuel Cell Stack. <i>Heat Transfer Engineering</i> , 2011, 32, 151-167.	1.2	55
29	Prediction of air flow, methane, and coal dust dispersion in a room and pillar mining face. <i>International Journal of Mining Science and Technology</i> , 2017, 27, 657-662.	4.6	55
30	Progress on open cathode proton exchange membrane fuel cell: Performance, designs, challenges and future directions. <i>Applied Energy</i> , 2021, 283, 116359.	5.1	55
31	Fan selection and stack design for open-cathode polymer electrolyte fuel cell stacks. <i>Renewable Energy</i> , 2012, 37, 325-332.	4.3	54
32	Heat transfer analysis in artificial ground freezing under high seepage: Validation and heatlines visualization. <i>International Journal of Thermal Sciences</i> , 2019, 139, 232-245.	2.6	54
33	Numerical evaluation of various thermal management strategies for polymer electrolyte fuel cell stacks. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 12991-13007.	3.8	52
34	Heat transfer and entropy generation in air jet impingement on a model rough surface. <i>International Communications in Heat and Mass Transfer</i> , 2016, 72, 48-56.	2.9	46
35	Computational fluid dynamics (CFD) analysis of micro-reactor performance: Effect of various configurations. <i>Chemical Engineering Science</i> , 2012, 75, 85-95.	1.9	44
36	Performance evaluation of an open-cathode PEM fuel cell stack under ambient conditions: Case study of United Arab Emirates. <i>Energy Conversion and Management</i> , 2015, 105, 798-809.	4.4	44

#	ARTICLE	IF	CITATIONS
37	Optimization of an open-cathode polymer electrolyte fuel cells stack utilizing Taguchi method. <i>Applied Energy</i> , 2017, 185, 1225-1232.	5.1	43
38	Turbulent convective heat transfer in helical tube with twisted tape insert. <i>International Journal of Heat and Mass Transfer</i> , 2021, 169, 120918.	2.5	43
39	Evaluation of the heat transfer performance of helical coils of non-circular tubes. <i>Journal of Zhejiang University: Science A</i> , 2011, 12, 63-70.	1.3	41
40	Investigation of the purging effect on a dead-end anode PEM fuel cell-powered vehicle during segments of a European driving cycle. <i>Energy Conversion and Management</i> , 2015, 106, 951-957.	4.4	41
41	Effects of cyclic saturation of supercritical CO ₂ on the pore structures and mechanical properties of bituminous coal: An experimental study. <i>Journal of CO₂ Utilization</i> , 2020, 40, 101208.	3.3	41
42	Water droplet dynamics in a dead-end anode proton exchange membrane fuel cell. <i>Applied Energy</i> , 2019, 233-234, 300-311.	5.1	36
43	Reliability effect on energy consumption and greenhouse gas emissions of mining hauling fleet towards sustainable mining. <i>Journal of Sustainable Mining</i> , 2016, 15, 85-94.	0.1	35
44	A novel flow reversal concept for improved thermal management in polymer electrolyte fuel cell stacks. <i>International Journal of Thermal Sciences</i> , 2012, 54, 242-252.	2.6	34
45	Performance evaluation of a PEM fuel cell stack with variable inlet flows under simulated driving cycle conditions. <i>Applied Energy</i> , 2017, 206, 751-764.	5.1	34
46	Geothermal energy extraction using abandoned oil and gas wells: Techno-economic and policy review. <i>International Journal of Energy Research</i> , 2022, 46, 28-60.	2.2	34
47	Numerical Investigation of the High Temperature PEM Electrolyzer: Effect of Flow Channel Configurations. <i>ECS Transactions</i> , 2013, 58, 99-112.	0.3	33
48	Recovering waste heat from diesel generator exhaust; an opportunity for combined heat and power generation in remote Canadian mines. <i>Journal of Cleaner Production</i> , 2019, 225, 785-805.	4.6	33
49	Pressure loss and friction factor in non-Newtonian mine paste backfill: Modelling, loop test and mine field data. <i>Powder Technology</i> , 2019, 344, 443-453.	2.1	33
50	Energy analysis of the effectiveness of microwave-assisted fragmentation. <i>Minerals Engineering</i> , 2020, 159, 106642.	1.8	33
51	Numerical analysis of laminar heat transfer performance of in-plane spiral ducts with various cross-sections at fixed cross-section area. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 5882-5890.	2.5	32
52	An effective thermal conductivity model for fractal porous media with rough surfaces. <i>Advances in Geo-Energy Research</i> , 2019, 3, 149-155.	3.1	31
53	Flow characteristics and wear prediction of Herschel-Bulkley non-Newtonian paste backfill in pipe elbows. <i>Canadian Journal of Chemical Engineering</i> , 2017, 95, 1181-1191.	0.9	30
54	A Factorial Study to Investigate the Purging Effect on the Performance of a Dead-End Anode PEM Fuel Cell Stack. <i>Fuel Cells</i> , 2015, 15, 160-169.	1.5	29

#	ARTICLE	IF	CITATIONS
55	Estimating pressure drop and Ergun/Forchheimer parameters of flow through packed bed of spheres with large particle diameters. <i>Powder Technology</i> , 2019, 356, 310-324.	2.1	29
56	Optimization of operating parameters for liquid-cooled PEM fuel cell stacks using Taguchi method. <i>Journal of Industrial and Engineering Chemistry</i> , 2012, 18, 1039-1050.	2.9	28
57	Introduction and evaluation of a novel hybrid brattice for improved dust control in underground mining faces: A computational study. <i>International Journal of Mining Science and Technology</i> , 2015, 25, 537-543.	4.6	27
58	Experimental investigation on the effects of microwave irradiation on kimberlite and granite rocks. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2021, 13, 267-274.	3.7	27
59	Impact of COVID-19-Related Traffic Slowdown on Urban Heat Characteristics. <i>Atmosphere</i> , 2021, 12, 243.	1.0	27
60	Renewable heating solutions for buildings; a techno-economic comparative study of sewage heat recovery and Solar Borehole Thermal Energy Storage System. <i>Energy and Buildings</i> , 2022, 259, 111892.	3.1	26
61	Energy-efficient thermal drying using impinging-jets with time-varying heat input – A computational study. <i>Journal of Food Engineering</i> , 2013, 114, 269-277.	2.7	25
62	Thermal and hydraulic analysis of selective artificial ground freezing using air insulation: Experiment and modeling. <i>Computers and Geotechnics</i> , 2020, 120, 103416.	2.3	25
63	Laminar convective heat transfer for in-plane spiral coils of noncircular cross sections ducts: A computational fluid dynamics study. <i>Thermal Science</i> , 2012, 16, 109-118.	0.5	24
64	Laminar heat transfer performance of power law fluids in coiled square tube with various configurations. <i>International Communications in Heat and Mass Transfer</i> , 2014, 57, 100-108.	2.9	24
65	Numerical investigation of the effect of operating parameters on a planar solid oxide fuel cell. <i>Energy Conversion and Management</i> , 2015, 90, 138-145.	4.4	24
66	A novel concept of enhanced gas recovery strategy from ventilation air methane in underground coal mines – A computational investigation. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 35, 661-672.	2.1	24
67	EFFECTIVE PERMEABILITY OF FRACTURED POROUS MEDIA WITH FRACTAL DUAL-POROSITY MODEL. <i>Fractals</i> , 2017, 25, 1740014.	1.8	23
68	Freezing on demand: A new concept for mine safety and energy savings in wet underground mines. <i>International Journal of Mining Science and Technology</i> , 2019, 29, 621-627.	4.6	23
69	Field-scale experimental and numerical analysis of a downhole coaxial heat exchanger for geothermal energy production. <i>Renewable Energy</i> , 2022, 182, 521-535.	4.3	23
70	Optimization of an innovative hybrid thermal energy storage with phase change material (PCM) wall insulator utilizing Taguchi method. <i>Journal of Energy Storage</i> , 2022, 49, 104067.	3.9	23
71	Numerical investigation of rock-pile based waste heat storage for remote communities in cold climates. <i>Applied Energy</i> , 2019, 252, 113475.	5.1	22
72	On the concept of the freezing-on-demand (FoD) in artificial ground freezing for long-term applications. <i>International Journal of Heat and Mass Transfer</i> , 2019, 143, 118557.	2.5	22

#	ARTICLE	IF	CITATIONS
73	Experimental investigation of specific heat of aqueous graphene oxide Al ₂ O ₃ hybrid nanofluid. <i>Thermal Science</i> , 2021, 25, 515-525.	0.5	22
74	Numerical and experimental analysis of fully coupled electromagnetic and thermal phenomena in microwave heating of rocks. <i>Minerals Engineering</i> , 2022, 178, 107406.	1.8	22
75	Heat Transfer Analysis of Large Scale Seasonal Thermal Energy Storage for Underground Mine Ventilation. <i>Energy Procedia</i> , 2015, 75, 2093-2098.	1.8	21
76	Thermal Conductivity and Stability of Novel Aqueous Graphene Oxide-Al ₂ O ₃ Hybrid Nanofluids for Cold Energy Storage. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5768.	1.3	21
77	Validated Reduction and Accelerated Numerical Computation of a Model for the Proton Exchange Membrane Fuel Cell. <i>Journal of the Electrochemical Society</i> , 2009, 156, B1156.	1.3	20
78	Heat Transfer in Coiled Square Tubes for Laminar Flow of Slurry of Microencapsulated Phase Change Material. <i>Heat Transfer Engineering</i> , 2013, 34, 994-1007.	1.2	20
79	Effect of buoyancy-driven natural convection in a rock-pit mine air preconditioning system acting as a large-scale thermal energy storage mass. <i>Applied Energy</i> , 2018, 221, 268-279.	5.1	20
80	Numerical analysis of permeability rebound and recovery during coalbed methane extraction: Implications for CO ₂ injection methods. <i>Chemical Engineering Research and Design</i> , 2021, 149, 93-104.	2.7	20
81	Numerical investigation of laminar mass transport enhancement in heterogeneous gaseous microreactors. <i>Chemical Engineering and Processing: Process Intensification</i> , 2012, 54, 1-11.	1.8	19
82	Thermal performance optimization of a bayonet tube heat exchanger. <i>Applied Thermal Engineering</i> , 2017, 111, 232-247.	3.0	19
83	Optimization of geothermal energy extraction from abandoned oil well with a novel well bottom curvature design utilizing Taguchi method. <i>Energy</i> , 2019, 188, 116098.	4.5	19
84	Optimization of Membrane Electrode Assembly of PEM Fuel Cell by Response Surface Method. <i>Molecules</i> , 2019, 24, 3097.	1.7	19
85	Performance Evaluation of Liquid Mixing in a T-Junction Passive Micromixer with a Twisted Tape Insert. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 3904-3915.	1.8	19
86	THERMAL PERFORMANCE ENHANCEMENT OF PARAFFIN WAX WITH AL ₂ O ₃ AND CuO NANOPARTICLES – A NUMERICAL STUDY. <i>Frontiers in Heat and Mass Transfer</i> , 2012, 2, .	0.1	19
87	Convective Heat Transfer Enhancement of Laminar Herschel-Bulkley Non-Newtonian Fluid in Straight and Helical Heat Exchangers with Twisted Tape Inserts. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 814-844.	1.8	19
88	Numerical Evaluation of Transport Phenomena in a T-junction Microreactor with Coils of Different Configurations. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 1970-1980.	1.8	18
89	Ice versus battery storage; a case for integration of renewable energy in refrigeration systems of remote sites. <i>Energy Procedia</i> , 2019, 159, 60-65.	1.8	18
90	Intermittent Freezing Concept for Energy Saving in Artificial Ground Freezing Systems. <i>Energy Procedia</i> , 2017, 142, 3920-3925.	1.8	17

#	ARTICLE	IF	CITATIONS
91	A new model to analyze performance of mine exhaust heat recovery systems with coupled heat exchangers. <i>Applied Energy</i> , 2019, 256, 113922.	5.1	17
92	Advances in dewatering and drying in mineral processing. <i>Drying Technology</i> , 2021, 39, 1667-1684.	1.7	16
93	Development of conjugate reduced-order models for selective artificial ground freezing: Thermal and computational analysis. <i>Applied Thermal Engineering</i> , 2021, 190, 116782.	3.0	16
94	An analytical correlation for conjugate heat transfer in fin and tube heat exchangers. <i>International Journal of Thermal Sciences</i> , 2021, 164, 106915.	2.6	16
95	Evaluation of mass transport performance in heterogeneous gaseous in-plane spiral reactors with various cross-section geometries at fixed cross-section area. <i>Chemical Engineering and Processing: Process Intensification</i> , 2014, 82, 101-111.	1.8	15
96	Global and local transport properties of steady and unsteady flow in a symmetrical bronchial tree. <i>International Journal of Heat and Mass Transfer</i> , 2016, 97, 696-704.	2.5	15
97	Numerical evaluation, process design and techno-economic analysis of geothermal energy extraction from abandoned oil wells in Malaysia. <i>Renewable Energy</i> , 2021, 175, 868-879.	4.3	15
98	Optimization of Wavy-Channel Micromixer Geometry Using Taguchi Method. <i>Micromachines</i> , 2018, 9, 70.	1.4	14
99	Experimental and unified mathematical frameworks of water-ice phase change for cold thermal energy storage. <i>International Journal of Heat and Mass Transfer</i> , 2022, 187, 122536.	2.5	14
100	Development and validation of a semi-analytical framework for droplet freezing with heterogeneous nucleation and non-linear interface kinetics. <i>International Journal of Heat and Mass Transfer</i> , 2021, 166, 120734.	2.5	13
101	Analysis of energy consumption and carbon footprint from underground haulage with different power sources in typical Canadian mines. <i>Journal of Cleaner Production</i> , 2017, 166, 21-31.	4.6	12
102	Development and validation of an asymptotic solution for a two-phase Stefan problem in a droplet subjected to convective boundary condition. <i>International Journal of Thermal Sciences</i> , 2021, 164, 106923.	2.6	12
103	An overview of directions for decarbonization of energy systems in cold climate remote mines. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 152, 111711.	8.2	12
104	Evaluation of Heat Transfer Performance between Rock and Air in Seasonal Thermal Energy Storage Unit. <i>Energy Procedia</i> , 2017, 142, 576-581.	1.8	11
105	On the performance of ground coupled seasonal thermal energy storage for heating and cooling: A Canadian context. <i>Applied Energy</i> , 2019, 250, 593-604.	5.1	11
106	Flow characterisation of monopropylene glycol ice slurry through a horizontal U-bend: A numerical approach. <i>European Journal of Mechanics, B/Fluids</i> , 2020, 82, 93-105.	1.2	11
107	Enhancement of Continuous-Feed Low-Cost Solar Distiller: Effects of Various Fin Designs. <i>Energies</i> , 2021, 14, 4844.	1.6	11
108	Thermal performance evaluation of integrated solar-geothermal system; a semi-conjugate reduced order numerical model. <i>Applied Energy</i> , 2021, 303, 117676.	5.1	11

#	ARTICLE	IF	CITATIONS
109	Development of Analytical Solution for a Two-Phase Stefan Problem in Artificial Ground Freezing Using Singular Perturbation Theory. <i>Journal of Heat Transfer</i> , 2020, 142, .	1.2	11
110	Diesel generator exhaust heat recovery fully-coupled with intake air heating for off-grid mining operations: An experimental, numerical, and analytical evaluation. <i>International Journal of Mining Science and Technology</i> , 2022, 32, 155-169.	4.6	11
111	Computational Study of Edge Cooling for Open-Cathode Polymer Electrolyte Fuel Cell Stacks. <i>Journal of Fuel Cell Science and Technology</i> , 2012, 9, .	0.8	10
112	Correlating variability of the leakage characteristics with the hydraulic performance of an auxiliary ventilation system. <i>Building and Environment</i> , 2017, 121, 200-214.	3.0	10
113	Entropy Generation and Heat Transfer Performance in Microchannel Cooling. <i>Entropy</i> , 2019, 21, 191.	1.1	10
114	Friction factor correlation for airflow through broken rocks and its applications in mine ventilation. <i>International Journal of Mining Science and Technology</i> , 2020, 30, 455-462.	4.6	10
115	Performance analysis of a new positron camera geometry for high speed, fine particle tracking. <i>Measurement Science and Technology</i> , 2017, 28, 095402.	1.4	10
116	A real-time monitoring temperature-dependent risk index for predicting mine water inrush from collapse columns through a coupled thermal-hydraulic-mechanical model. <i>Journal of Hydrology</i> , 2022, 607, 127565.	2.3	10
117	Numerical investigation of aqueous graphene nanofluid ice slurry passing through a horizontal circular pipe: Heat transfer and fluid flow characteristics. <i>International Communications in Heat and Mass Transfer</i> , 2022, 134, 106022.	2.9	10
118	A Conjugate Natural Convection Model for Large Scale Seasonal Thermal Energy Storage Units: Application in Mine Ventilation. <i>Energy Procedia</i> , 2017, 105, 4167-4172.	1.8	9
119	Heat Transfer and Entropy Generation in Concentric/Eccentric Double-Pipe Helical Heat Exchangers. <i>Heat Transfer Engineering</i> , 2020, 41, 1552-1575.	1.2	9
120	Hybrid Renewable Hydrogen Energy Solution for Application in Remote Mines. <i>Energies</i> , 2020, 13, 6365.	1.6	9
121	Numerical and experimental study of transient conjugate heat transfer in helical closed-loop geothermal heat exchangers for application of thermal energy storage in backfilled mine stopes. <i>International Journal of Energy Research</i> , 2020, 44, 9609-9616.	2.2	9
122	Numerical study on the cooling characteristics of hybrid thermosyphons: Case study of the Giant Mine, Canada. <i>Cold Regions Science and Technology</i> , 2021, 189, 103313.	1.6	9
123	Asymptotic analysis of a two-phase Stefan problem in annulus: Application to outward solidification in phase change materials. <i>Applied Mathematics and Computation</i> , 2021, 408, 126343.	1.4	9
124	Hybrid artificial ground freezing as a sustainable solution for containing hazardous-waste in critical environmental projects. <i>Cold Regions Science and Technology</i> , 2021, 192, 103401.	1.6	9
125	Thermal Performance of Coiled Square Tubes at Large Temperature Differences for Heat Exchanger Application. <i>Heat Transfer Engineering</i> , 2016, 37, 1341-1356.	1.2	8
126	Characterization of an Open-loop Seasonal Thermal Energy Storage System. <i>Energy Procedia</i> , 2017, 142, 3401-3406.	1.8	8

#	ARTICLE	IF	CITATIONS
127	Freezing on Demand (FoD): An Energy Saving Technique for Artificial Ground Freezing. Energy Procedia, 2019, 158, 4992-4997.	1.8	8
128	Computational study of microwave heating for rock fragmentation; model development and validation. International Journal of Thermal Sciences, 2022, 181, 107746.	2.6	8
129	Energy-Efficient Novel Heterogeneous Gaseous T-Junction Microreactor Design Utilizing Inlet Flow Pulsation. Industrial & Engineering Chemistry Research, 2014, 53, 18699-18710.	1.8	7
130	Optimization of Design Parameters for an Open-cathode Polymer Electrolyte Fuel Cells Stack Utilizing Taguchi Method. Energy Procedia, 2015, 75, 2027-2032.	1.8	7
131	Investigation of Heat Transfer on a Rotating Latent Heat Energy Storage. Energy Procedia, 2017, 105, 4173-4178.	1.8	7
132	Analysing equipment allocation through queuing theory and Monte-Carlo simulations in surface mining operations. International Journal of Mining and Mineral Engineering, 2017, 8, 56.	0.1	7
133	Designing a Large-Scale Lake Cooling System for an Ultra-Deep Mine: A Canadian Case Study. Energies, 2019, 12, 811.	1.6	6
134	Numerical Investigation of Ventilation Air Methane Catalytic Combustion in Circular Straight and Helical Coil Channels with Twisted Tape Insert in Catalytic-Monolith Reactors. Catalysts, 2020, 10, 797.	1.6	6
135	Experimental Investigations of Microwave Effects on Rock Breakage Using SEM Analysis. , 0, , .		6
136	Numerical Investigation of Water and Temperature Distributions for Open-Cathode Polymer Electrolyte Fuel Cell Stack With Edge Cooling. Journal of Fuel Cell Science and Technology, 2013, 10, .	0.8	5
137	Performance and potential energy saving of thermal dryer with intermittent impinging jet. Applied Thermal Engineering, 2017, 113, 246-258.	3.0	5
138	Heat transfer performance and entropy generation of helical square tubes with various curvature radiuses. Energy Procedia, 2017, 142, 4064-4069.	1.8	5
139	Process design and techno-economic analysis of ethyl levulinate production from carbon dioxide and 1,4-butanediol as an alternative biofuel and fuel additive. International Journal of Energy Research, 2019, 43, 5932-5945.	2.2	5
140	The Effect of Triangular Protrusions on Geothermal Wellbore Heat Exchanger from Retrofitted Abandoned Oil Wells. Energy Procedia, 2019, 158, 6061-6066.	1.8	5
141	Performance evaluation of mass transport enhancement in novel dual-channel design of micro-reactors. Heat and Mass Transfer, 2020, 56, 559-574.	1.2	5
142	A Novel Crystal Growth Model with Nonlinear Interface Kinetics and Curvature Effects: Sensitivity Analysis and Optimization. Crystal Growth and Design, 2021, 21, 3251-3265.	1.4	5
143	Effect of Freeze Pipe Eccentricity in Selective Artificial Ground Freezing Applications. Journal of Thermal Science and Engineering Applications, 0, , 1-33.	0.8	5
144	Thermal and hydraulic analysis of a novel double-pipe geothermal heat exchanger with a controlled fractured zone at the well bottom. Applied Energy, 2022, 310, 118407.	5.1	5

#	ARTICLE	IF	CITATIONS
145	Effect of Elevated Temperature on Rhyolitic Rocks™ Properties. <i>Materials</i> , 2022, 15, 3204.	1.3	5
146	Investigation of the Purging Effect on the Performance of Dead-End Anode PEM Fuel Cell Vehicle: A Driving Cycle Test. <i>ECS Transactions</i> , 2013, 58, 229-242.	0.3	4
147	Water Dynamics in the Flow Channel of a Dead-end Anode Polymer Electrolyte Membrane Fuel Cell. <i>Energy Procedia</i> , 2017, 105, 1877-1882.	1.8	4
148	Performance and economic assessment of large-scale deep-lake cooling systems: A Canadian example. <i>Energy Procedia</i> , 2019, 158, 43-48.	1.8	4
149	Numerical study of waste heat recovery by direct heat exchanger systems. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020, 463, 012031.	0.2	4
150	Heat transfer performance of non-circular coiled tubes - Research summary, challenges and directions. <i>International Journal of Automotive and Mechanical Engineering</i> , 2016, 13, 3710-3727.	0.5	4
151	Performance and Fuel Consumption of Diesel Engine Fueled by Diesel Fuel and Waste Plastic Oil Blends: An Experimental Investigation. <i>Automotive Experiences</i> , 2020, 4, 20-26.	0.5	4
152	THE CORRELATION BETWEEN FLUID FLOW AND HEAT TRANSFER OF UNSATURATED SHALE RESERVOIR BASED ON FRACTAL GEOMETRY. <i>Fractals</i> , 2022, 30, .	1.8	4
153	Publisher's Note: Validated Reduction and Accelerated Numerical Computation of a Model for the Proton Exchange Membrane Fuel Cell [J. <i>Electrochem. Soc.</i> , 156, B1156 (2009)]. <i>Journal of the Electrochemical Society</i> , 2009, 156, S14.	1.3	3
154	Numerical Investigation of Heat Transfer Performance of Various Coiled Square Tubes for Heat Exchanger Application. <i>Energy Procedia</i> , 2015, 75, 3168-3173.	1.8	3
155	Potential catalyst savings in heterogeneous gaseous spiral coiled reactor utilizing selective wall coating – A computational study. <i>Computers and Chemical Engineering</i> , 2016, 88, 59-72.	2.0	3
156	Numerical Evaluation of Heat Transfer and Entropy Generation of Helical Tubes with Various Cross-sections under Constant Heat Flux Condition. <i>MATEC Web of Conferences</i> , 2018, 225, 03017.	0.1	3
157	A porous medium based heat transfer and fluid flow model for thermal energy storage in packed rock beds. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 268, 012100.	0.2	3
158	Numerical Evaluation of Potential Catalyst Savings for Ventilation Air Methane Catalytic Combustion in Helical Coil Reactors with Selective Wall Coating. <i>Catalysts</i> , 2019, 9, 380.	1.6	3
159	Application of Phase Change Material-Based Thermal Capacitor in Double Tube Heat Exchanger – A Numerical Investigation. <i>Energies</i> , 2020, 13, 4327.	1.6	3
160	FRACTAL TREELIKE FRACTURE NETWORK MODEL FOR HYDRAULICALLY AND MECHANICALLY INDUCED DYNAMIC CHANGES IN THE NON-DARCY COEFFICIENT DURING THE PROCESS OF MINE WATER INRUSH FROM COLLAPSED COLUMNS. <i>Fractals</i> , 2021, 29, .	1.8	3
161	Evaluation of Rheology Measurements Techniques for Pressure Loss in Mine Paste Backfill Transportation. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 678.	0.8	3
162	Numerical Investigation of Multi-Scale Mixing in Microchannel T-Junction With Wavy Structure. , 2012, , .		2

#	ARTICLE	IF	CITATIONS
163	Numerical investigation of phase change materials thermal capacitor for pipe flow. MATEC Web of Conferences, 2017, 131, 01001.	0.1	2
164	Development and Validation of Enthalpy-Porosity Method for Artificial Ground Freezing Under Seepage Conditions. , 2018, , .		2
165	Performance Evaluation of Ground-Coupled Seasonal Thermal Energy Storage with High Resolution Weather Data: Case Study of Calgary Canada. Energy Procedia, 2019, 158, 4980-4985.	1.8	2
166	Study of transient conjugate heat transfer in helical closed-loop geothermal heat exchangers for application of thermal energy storage in backfilled mine stopes. IOP Conference Series: Earth and Environmental Science, 2019, 268, 012086.	0.2	2
167	Numerical Evaluation of the Transient Performance of Rock-Pile Seasonal Thermal Energy Storage Systems Coupled with Exhaust Heat Recovery. Applied Sciences (Switzerland), 2020, 10, 7771.	1.3	2
168	Analysing equipment allocation through queuing theory and Monte-Carlo simulations in surface mining operations. International Journal of Mining and Mineral Engineering, 2017, 8, 56.	0.1	2
169	An Analytical Model for Transient Heat Transfer with a Time-Dependent Boundary in Solar- and Waste-Heat-Assisted Geothermal Borehole Systems: From Single to Multiple Boreholes. Applied Sciences (Switzerland), 2021, 11, 10338.	1.3	2
170	Numerical Investigation of Water and Temperature Distributions for Open-Cathode Polymer Electrolyte Fuel Cell Stack With Edge Cooling. , 2013, , .		1
171	Transport Phenomena in Porous Media and Fractal Geometry. Journal of Chemistry, 2015, 2015, 1-2.	0.9	1
172	Renewable energy-based artificial ground freezing as an adaptation solution for sustainability of permafrost in post-climate change conditions. IOP Conference Series: Earth and Environmental Science, 2019, 268, 012128.	0.2	1
173	Latent Heat Thermal Capacitor in Heat Exchangers- a Computational Investigation. Energy Procedia, 2019, 158, 5529-5534.	1.8	1
174	Forced convection boiling heat transfer inside helically-coiled heat exchanger. IOP Conference Series: Earth and Environmental Science, 2020, 463, 012030.	0.2	1
175	Numerical Investigations of the Single-Mode Microwave Treatment Effects on Rock Breakage. , 0, , .		1
176	Report on Honorary Doctorate for Editor-in-Chief Professor Arun S. Mujumdar Receives Doctor Honoris Causa Award from Lodz Technical University, Poland on June 11, 2008. Drying Technology, 2008, 26, 1618-1622.	1.7	0
177	Computational Study of Flow Reversal for Improved Thermal Management in a PEMFC Stack With Forced Air Convection Cooling. , 2010, , .		0
178	Computational Study of Edge Cooling for Open-Cathode Polymer Electrolyte Fuel Cell Stacks. , 2012, , .		0
179	Guest Editorial: Importance of "Drying" in Proton Exchange Membrane (PEM) Fuel Cells. Drying Technology, 2013, 31, 491-493.	1.7	0
180	Effect of Ambient Conditions on the Performance of an Open-Cathode PEM Fuel Cell Stack: Case Study United Arab Emirates. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
181	Conjugated Heat Transfer Analysis in a Host Rock "Drift System at Deep Underground Mines. Proceedings (mdpi), 2018, 2, 1428.	0.2	0
182	Optimizing replacement time for mining shovel teeth using reliability analysis and Markov chain Monte Carlo simulation. International Journal of Quality and Reliability Management, 2018, 35, 2388-2402.	1.3	0
183	Experimental investigation of the performance of thermal energy storage with embedded phase change materials as wall insulator. IOP Conference Series: Earth and Environmental Science, 2020, 463, 012139.	0.2	0
184	The 75th birthday of Professor Arun S. Mujumdar. Drying Technology, 2020, 38, 555-556.	1.7	0
185	Catalyst Special Issue on Catalytic Reactors Design for Industrial Applications. Catalysts, 2021, 11, 440.	1.6	0
186	Editorial: Emerging Technologies for Sustainable Development: From Smart Cities to Circular Economy. Frontiers in Energy Research, 0, 9, .	1.2	0
187	Numerical Evaluation of Heat Transfer Performance of Helical Coils of Non-Circular Tubes. , 2010, , .		0
188	Geometrical Optimization of Micro-Mixer with Wavy Structure Design for Chemical Processes Using Taguchi Method. Lecture Notes in Mechanical Engineering, 2013, , 1173-1184.	0.3	0
189	Hydrogen Fuel Cell in Vehicle Propulsion: Performance, Efficiency, and Challenge. , 2020, , 9-26.		0
190	Verification and Validation of Droplet Freezing for Convective Boundary Condition Using Matched Asymptotic Perturbation Method and Computational Fluid Dynamics. , 2019, , .		0
191	Singular Perturbation Solution for a Two-Phase Stefan Problem in Outward Solidification. , 2019, , .		0
192	Numerical Investigation of Subcooled Boiling Heat Transfer in Helically-Coiled Tube. International Journal of Automotive and Mechanical Engineering, 2020, 17, 7675-7686.	0.5	0
193	Pore-Scale Modeling in Metal Foam Heat Exchanger. ECS Transactions, 2022, 107, 7713-7722.	0.3	0