

# Ferri P Hassani

## List of Publications by Year in descending order

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Version: 2024-02-01

65  
papers

1,478  
citations

411340

20  
h-index

388640

36  
g-index

72  
all docs

72  
docs citations

72  
times ranked

1028  
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical and experimental analysis of fully coupled electromagnetic and thermal phenomena in microwave heating of rocks. Minerals Engineering, 2022, 178, 107406.	1.8	22
2	Effect of microwave treatment on the thermal properties and dynamic splitting behavior of red sandstone. Canadian Geotechnical Journal, 2022, 59, 1231-1242.	1.4	3
3	Effect of Elevated Temperature on Rhyolitic Rocks's Properties. Materials, 2022, 15, 3204.	1.3	5
4	Evaluation of Rheology Measurements Techniques for Pressure Loss in Mine Paste Backfill Transportation. Minerals (Basel, Switzerland), 2022, 12, 678.	0.8	3
5	Numerical investigation of TBM disc cutter cutting on microwave-treated basalt with an unrelieved model. Archives of Civil and Mechanical Engineering, 2022, 22, .	1.9	8
6	Computational study of microwave heating for rock fragmentation; model development and validation. International Journal of Thermal Sciences, 2022, 181, 107746.	2.6	8
7	SPH-FEM simulations of microwave-treated basalt strength. Transactions of Nonferrous Metals Society of China, 2022, 32, 2003-2018.	1.7	2
8	Experimental investigation on the effects of microwave irradiation on kimberlite and granite rocks. Journal of Rock Mechanics and Geotechnical Engineering, 2021, 13, 267-274.	3.7	27
9	Safety Factor on Rock Slopes with Tensile Cracks Using Numerical and Limit Equilibrium Models. Geotechnical and Geological Engineering, 2021, 39, 2287-2300.	0.8	3
10	Effect of Air Entrainment on Cemented Mine Backfill Properties: Analysis Based on Response Surface Methodology. Minerals (Basel, Switzerland), 2021, 11, 81.	0.8	7
11	Rheological and mechanical properties of fibre-reinforced cemented paste and foam backfill. International Journal of Mining, Reclamation and Environment, 2021, 35, 488-505.	1.2	5
12	Modeling drill bit wear mechanisms during rock drilling. Arabian Journal of Geosciences, 2021, 14, 1.	0.6	6
13	Thermal performance evaluation of integrated solar-geothermal system; a semi-conjugate reduced order numerical model. Applied Energy, 2021, 303, 117676.	5.1	11
14	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
15	Energy analysis of the effectiveness of microwave-assisted fragmentation. Minerals Engineering, 2020, 159, 106642.	1.8	33
16	Friction factor correlation for airflow through broken rocks and its applications in mine ventilation. International Journal of Mining Science and Technology, 2020, 30, 455-462.	4.6	10
17	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
18	Experimental Development of a Novel Mine Backfill Material: Foam Mine Fill. Minerals (Basel, Switzerland), 2020, 10, 10771.	0.8	22

#	ARTICLE	IF	CITATIONS
19	Artificial ground freezing: A review of thermal and hydraulic aspects. <i>Tunnelling and Underground Space Technology</i> , 2020, 104, 103534.	3.0	69
20	Stability analysis of slopes with planar failure using variational calculus and numerical methods. <i>Frontiers of Structural and Civil Engineering</i> , 2020, 14, 1262-1273.	1.2	4
21	A comparative study of the cooling-rate effect on rock strength reduction after microwave irradiation. <i>Experimental Results</i> , 2020, 1, .	0.2	2
22	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
23	Energo- and exergo-technical assessment of ground-source heat pump systems for geothermal energy production from underground mines. <i>Environmental Technology (United Kingdom)</i> , 2019, 40, 3534-3546.	1.2	7
24	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
25	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
26	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
27	Freezing on Demand (FoD): An Energy Saving Technique for Artificial Ground Freezing. <i>Energy Procedia</i> , 2019, 158, 4992-4997.	1.8	8
28	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
29	Designing a Large-Scale Lake Cooling System for an Ultra-Deep Mine: A Canadian Case Study. <i>Energies</i> , 2019, 12, 811.	1.6	6
30	Optimal utilization of geothermal heat from abandoned oil wells for power generation. <i>Applied Thermal Engineering</i> , 2019, 153, 536-542.	3.0	50
31	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
32	Experimental Investigation on the Effects of Microwave Treatment on Basalt Heating, Mechanical Strength, and Fragmentation. <i>Rock Mechanics and Rock Engineering</i> , 2019, 52, 2535-2549.	2.6	73
33	Receding Horizon Control of Rate of Penetration in Rotary Drills. , 2019, , .		0
34	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
35	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
36	An Investigation into the Potential Use of Calcium Carbonate Nanoparticles in Mine Backfill. <i>Materials Science Forum</i> , 2018, 916, 184-189.	0.3	1

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37	Tricone bit health monitoring using wavelet packet decomposed vibration signal. , 2018, , .		4
38	Performance evaluation of large scale rock-pit seasonal thermal energy storage for application in underground mine ventilation. Applied Energy, 2017, 185, 1940-1947.	5.1	62
39	Investigation into changes in pastefill properties during pipeline transport. International Journal of Mineral Processing, 2017, 163, 35-44.	2.6	19
40	A Conjugate Natural Convection Model for Large Scale Seasonal Thermal Energy Storage Units: Application in Mine Ventilation. Energy Procedia, 2017, 105, 4167-4172.	1.8	9
41	The influence of microwave irradiation on thermal properties of main rock-forming minerals. Applied Thermal Engineering, 2017, 112, 1523-1532.	3.0	122
42	Flow characteristics and wear prediction of Herschel-Bulkley non-Newtonian paste backfill in pipe elbows. Canadian Journal of Chemical Engineering, 2017, 95, 1181-1191.	0.9	30
43	Evaluation of Heat Transfer Performance between Rock and Air in Seasonal Thermal Energy Storage Unit. Energy Procedia, 2017, 142, 576-581.	1.8	11
44	Intermittent Freezing Concept for Energy Saving in Artificial Ground Freezing Systems. Energy Procedia, 2017, 142, 3920-3925.	1.8	17
45	The influence of microwave irradiation on rocks for microwave-assisted underground excavation. Journal of Rock Mechanics and Geotechnical Engineering, 2016, 8, 1-15.	3.7	167
46	Microwave Assisted Rock Breakage for Space Mining. , 2015, , .		3
47	Analysis of the effect of global climate change on ground source heat pump systems in different climate categories. Renewable Energy, 2015, 78, 219-225.	4.3	23
48	Comparison between different measures to reduce cooling requirements of residential building in cooling-dominated environment. Energy and Buildings, 2015, 88, 409-412.	3.1	18
49	Utilization of oil wells for electricity generation: Performance and economics. Energy, 2015, 90, 910-916.	4.5	18
50	Heat Transfer Analysis of Large Scale Seasonal Thermal Energy Storage for Underground Mine Ventilation. Energy Procedia, 2015, 75, 2093-2098.	1.8	21
51	Introduction and evaluation of a novel hybrid brattice for improved dust control in underground mining faces: A computational study. International Journal of Mining Science and Technology, 2015, 25, 537-543.	4.6	27
52	An Experimental Study on the Effective Parameters of Thermal Conductivity of Mine Backfill. Heat Transfer Engineering, 2014, 35, 1209-1224.	1.2	14
53	Warming impact on energy use of HVAC system in buildings of different thermal qualities and in different climates. Energy Conversion and Management, 2014, 81, 106-111.	4.4	40
54	Combined Effect of Global Warming and Buildings Envelope on the Performance of Ground Source Heat Pump Systems. , 2014, , 299-315.		0

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55	Prediction of the height of destressed zone above the mined panel roof in longwall coal mining. International Journal of Coal Geology, 2012, 98, 62-72.	1.9	164
56	Land Use-Based Landscape Planning and Restoration in Mine Closure Areas. Environmental Management, 2011, 47, 739-750.	1.2	38
57	The Development of Microwave Assisted Machineries to Break Hard Rocks. , 2011, , .		25
58	Response of ecological storage and conservation to land use transformation: A case study of a mining town in China. Ecological Modelling, 2010, 221, 1427-1439.	1.2	20
59	DETECTION OF INCLINED CRACKS INSIDE CONCRETE STRUCTURES BY ULTRASONIC SAFT. AIP Conference Proceedings, 2008, , .	0.3	10
60	Evaluation of flow liquefaction in fine grained tailings using elastic wave velocities. International Journal of Geotechnical Engineering, 2008, 2, 169-178.	1.1	3
61	Evaluation of Newly Developed Aluminum, Lime, and Fly Ash Technology for Solidification/Stabilization of Mine Tailings. Journal of Materials in Civil Engineering, 2007, 19, 105-111.	1.3	5
62	A brief survey of current surface waste disposal practices in the metal mining industry. International Journal of Mining, Reclamation and Environment, 1993, 7, 23-28.	0.1	3
63	Effect of Freeze Pipe Eccentricity in Selective Artificial Ground Freezing Applications. Journal of Thermal Science and Engineering Applications, 0, , 1-33.	0.8	5
64	Experimental Investigations of Microwave Effects on Rock Breakage Using SEM Analysis. , 0, , .		6
65	Numerical Investigations of the Single-Mode Microwave Treatment Effects on Rock Breakage. , 0, , .		1