Mehmet Kizil

List of Publications by Year
in descending order

50	1,197	19	34
papers	citations	h-index	g-index

394421

377865

51	51	51	1157
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A review of developments in near infrared methane detection based on tunable diode laser. Sensors and Actuators B: Chemical, 2012, 171-172, 77-92.	7.8	139
2	Recent developments in fibre optic shape sensing. Measurement: Journal of the International Measurement Confederation, 2018, 128, 119-137.	5.0	130
3	A coupled electromagnetic irradiation, heat and mass transfer model for microwave heating and its numerical simulation on coal. Fuel Processing Technology, 2018, 177, 237-245.	7.2	79
4	Characterisation of mechanics and flow fields around in-seam methane gas drainage borehole for preventing ventilation air leakage: A case study. International Journal of Coal Geology, 2016, 162, 123-138.	5.0	70
5	Impact of creep on the evolution of coal permeability and gas drainage performance. Journal of Natural Gas Science and Engineering, 2016, 33, 469-482.	4.4	69
6	Characterisation of creep in coal and its impact on permeability: An experimental study. International Journal of Coal Geology, 2017, 173, 200-211.	5.0	55
7	Development of a multi-layer perceptron artificial neural network model to determine haul trucks energy consumption. International Journal of Mining Science and Technology, 2016, 26, 285-293.	10.3	43
8	Effects of coal damage on permeability and gas drainage performance. International Journal of Mining Science and Technology, 2017, 27, 783-786.	10.3	42
9	Particle-Crushing Characteristics and Acoustic-Emission Patterns of Crushing Gangue Backfilling Material under Cyclic Loading. Minerals (Basel, Switzerland), 2018, 8, 244.	2.0	36
10	A comparison of strategic mine planning approaches for in-pit crushing and conveying, and truck/shovel systems. International Journal of Mining Science and Technology, 2018, 28, 205-214.	10.3	35
11	Role of multi-seam interaction on gas drainage engineering design for mining safety and environmental benefits: Linking coal damage to permeability variation. Chemical Engineering Research and Design, 2018, 114, 310-322.	5.6	35
12	A discrete-event model to simulate the effect of truck bunching due to payload variance on cycle time, hauled mine materials and fuel consumption. International Journal of Mining Science and Technology, 2016, 26, 745-752.	10.3	32
13	Advances in fibre optic based geotechnical monitoring systems for underground excavations. International Journal of Mining Science and Technology, 2019, 29, 229-238.	10.3	31
14	Coal permeability models for enhancing performance of clean gas drainage: A review. Journal of Petroleum Science and Engineering, 2021, 199, 108283.	4.2	30
15	Effects of coal properties on ventilation air leakage into methane gas drainage boreholes: Application of the orthogonal design. Journal of Natural Gas Science and Engineering, 2017, 45, 88-95.	4.4	25
16	Analysis on the multi-phase flow characterization in cross-measure borehole during coal hydraulic slotting. International Journal of Mining Science and Technology, 2018, 28, 701-705.	10.3	24
17	The influence of closed pores on the gas transport and its application in coal mine gas extraction. Fuel, 2019, 254, 115605.	6.4	24
18	Performance enhancement of horizontal underground-to-inseam gas drainage boreholes with double-phase-grouting sealing method for coal mining safety and clean gas resource. Journal of Natural Gas Science and Engineering, 2020, 76, 103179.	4.4	21

#	Article	IF	Citations
19	Production scheduling optimisation for sublevel stoping mines using mathematical programming: A review of literature and future directions. Resources Policy, 2020, 68, 101809.	9.6	20
20	Stimulation Techniques of Coalbed Methane Reservoirs. Geofluids, 2020, 2020, 1-23.	0.7	20
21	Effects of pressure and temperature fluctuations on near-infrared measurements of methane in underground coal mines. Applied Physics B: Lasers and Optics, 2012, 106, 979-986.	2.2	19
22	A comprehensive investigation of loading variance influence on fuel consumption and gas emissions in mine haulage operation. International Journal of Mining Science and Technology, 2016, 26, 995-1001.	10.3	18
23	Taxonomy of interactive computer-based visualisation systems and content for the mining industry – part 2. Mining Technology: Transactions of the Institute of Materials, Minerals and Mining Section A, 2015, 124, 83-96.	0.8	17
24	A new approach for selecting best development face ventilation mode based on G1-coefficient of variation method. Journal of Central South University, 2018, 25, 2462-2471.	3.0	16
25	Lignosulfonate Treating Bauxite Residue Dust Pollution: Enhancement of Mechanical Properties and Wind Erosion Behavior. Water, Air, and Soil Pollution, 2018, 229, 1.	2.4	16
26	Numerical and experimental investigations of pressure-driven gas flow in hollow-core photonic crystal fibers. Applied Optics, 2019, 58, 963.	1.8	14
27	Effects of geomechanical properties of interburden on the damage-based permeability variation in the underlying coal seam. Journal of Natural Gas Science and Engineering, 2018, 55, 42-51.	4.4	13
28	Spatial Prediction of Lateral Variability of a Laterite-Type Bauxite Horizon Using Ancillary Ground-Penetrating Radar Data. Natural Resources Research, 2013, 22, 207-227.	4.7	12
29	Modelling of In-Pit Crusher Conveyor alternatives. Mining Technology: Transactions of the Institute of Materials, Minerals and Mining Section A, 2013, 122, 193-199.	0.8	12
30	Analysis of quarry-blast-induced ground vibrations to mitigate their adverse effects on nearby structures. International Journal of Mining and Mineral Engineering, 2009, 1, 313.	0.3	11
31	Energy-Efficient Loading and Hauling Operations. Green Energy and Technology, 2018, , 121-146.	0.6	11
32	Ultimate pit limit determination for semi mobile in-pit crushing and conveying system: a case study. International Journal of Mining, Reclamation and Environment, 2020, 34, 498-518.	2.8	11
33	Underground coal mine layout selection using analytical hierarchy process. Mining Technology: Transactions of the Institute of Materials, Minerals and Mining Section A, 2014, 123, 20-29.	0.8	8
34	A microfabricated fibre optic sensor for methane gas measurement in underground coal mines. , 2012, , .		7
35	Numerical analysis of gas diffusion in drilled Hollow-Core Photonic Crystal fibres. Measurement: Journal of the International Measurement Confederation, 2018, 127, 283-291.	5.0	7
36	Integrated underground mining and pre-concentration systems; a critical review of technical concepts and developments. International Journal of Mining, Reclamation and Environment, 2021, 35, 153-182.	2.8	7

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37	The effect of coal particle size on colorimetric analysis of roadway dust. Journal of Loss Prevention in the Process Industries, 2001, 14, 387-394.	3.3	5
38	A novel cut-off grade method for increasing the sustainability of underground metalliferous mining operations. Minerals Engineering, 2021, 172, 107168.	4.3	5
39	Effects of heterogenous interburden Young's modulus on permeability characteristics of underlying relieved coal seam: Implementation of damage-based permeability model. Journal of Natural Gas Science and Engineering, 2021, 96, 104317.	4.4	5
40	Incorporating fine-scale ground-penetrating radar data into the mapping of lateral variability of a laterite-type bauxite horizon. Mining Technology: Transactions of the Institute of Materials, Minerals and Mining Section A, 2015, 124, 1-15.	0.8	4
41	Gas sensing with Hollow-Core Photonic Crystal Fibres: A comparative study of mode analysis and gas flow performance. Photonics and Nanostructures - Fundamentals and Applications, 2020, 41, 100830.	2.0	4
42	Fibre Optic Sensing Based Slope Crest Tension Crack Monitoring System for Surface Mines. , 2017, , .		4
43	A Cost Effective Method to Enhance Dredge Mine Reconciliation in Heavy Minerals Mining Industry. Marine Georesources and Geotechnology, 2009, 27, 273-280.	2.1	2
44	Predictive Network Modelling with Live Sensor Data. , 2017, , .		2
45	A New Mathematical Formulation for Underground Cut-off Grade Determination in the Presence of Pre-concentration Systems. Natural Resources Research, 2021, 30, 3241-3259.	4.7	2
46	Microfabricated Hollow core fibres for Gas Sensing using Wavelength Modulation Spectroscopy. , 2013, , .		1
47	Validation of Bare FBG Sensors in Monitoring Compressive Rock Mass Deformation. , 2017, , .		1
48	Ultimate pit limit determination for fully mobile in-pit crushing and conveying systems. International Journal of Mining and Mineral Engineering, 2019, 10, 111.	0.3	0
49	Determining the optimal orientation of ultimate pits for mines using fully mobile in-pit crushing and conveying systems. Journal of the Southern African Institute of Mining and Metallurgy, 2019, 119, .	0.3	0
50	A Scale Model Experimental Study for Estimating the Productivity of Bulk Push Dozer Operations in Hard Rock Mining. Mining, Metallurgy and Exploration, 0, , 1.	0.8	0