

Zong-Xian Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

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papers

584
citations

516215

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276
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy Requirement for Rock Breakage in Laboratory Experiments and Engineering Operations: A Review. <i>Rock Mechanics and Rock Engineering</i> , 2022, 55, 629-667.	2.6	22
2	Numerical Investigation of Blast-Induced Rock Movement Characteristics in Open-Pit Bench Blasting Using Bonded-Particle Method. <i>Rock Mechanics and Rock Engineering</i> , 2022, 55, 3599-3619.	2.6	6
3	Experimental Investigation of Decoupled Charge Effect on Rock Fragmentation by Blasting. <i>Rock Mechanics and Rock Engineering</i> , 2022, 55, 3791-3806.	2.6	11
4	Soft Computing-Based Models for Predicting the Characteristic Impedance of Igneous Rock from Their Physico-mechanical Properties. <i>Rock Mechanics and Rock Engineering</i> , 2022, 55, 4291-4304.	2.6	10
5	Characteristics of Vibration Waves Measured in Concrete Lining of Excavated Tunnel during Blasting in Adjacent Tunnel. <i>Coatings</i> , 2022, 12, 954.	1.2	2
6	Fracture Initiation, Gas Ejection, and Strain Waves Measured on Specimen Surfaces in Model Rock Blasting. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 647-663.	2.6	15
7	Empirical Estimation of Uniaxial Compressive Strength of Rock: Database of Simple, Multiple, and Artificial Intelligence-Based Regressions. <i>Geotechnical and Geological Engineering</i> , 2021, 39, 4427-4455.	0.8	23
8	Effect of Specimen Placement on Model Rock Blasting. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 3945-3960.	2.6	4
9	World mineral loss and possibility to increase ore recovery ratio in mining production. <i>International Journal of Mining, Reclamation and Environment</i> , 2021, 35, 670-691.	1.2	13
10	Experimental study of rock fragmentation under different stemming conditions in model blasting. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021, 143, 104797.	2.6	23
11	An empirical approach for predicting burden velocities in rock blasting. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2021, 13, 767-773.	3.7	8
12	Effect of detonator position on rock fragmentation: Full-scale field tests at Kevitsa open pit mine. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021, 147, 104918.	2.6	5
13	Laboratory experiment of stemming impact on rock fragmentation by a high explosive. <i>Tunnelling and Underground Space Technology</i> , 2020, 97, 103257.	3.0	28
14	Empirical equations between characteristic impedance and mechanical properties of rocks. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2020, 12, 975-983.	3.7	11
15	Energy Dissipation and Particle Size Distribution of Granite under Different Incident Energies in SHPB Compression Tests. <i>Shock and Vibration</i> , 2020, 2020, 1-14.	0.3	18
16	Muography and Its Potential Applications to Mining and Rock Engineering. <i>Rock Mechanics and Rock Engineering</i> , 2020, 53, 4893-4907.	2.6	17
17	Experimental study of surface constraint effect on rock fragmentation by blasting. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020, 128, 104278.	2.6	30
18	Experimental Investigation of Blast-Induced Fractures in Rock Cylinders. <i>Rock Mechanics and Rock Engineering</i> , 2019, 52, 2569-2584.	2.6	41

#	ARTICLE	IF	CITATIONS
19	Measurement of shock pressure and shock-wave attenuation near a blast hole in rock. International Journal of Impact Engineering, 2019, 125, 27-38.	2.4	47
20	Fracture Processes in Granite Blocks Under Blast Loading. Rock Mechanics and Rock Engineering, 2019, 52, 853-868.	2.6	49
21	A case study of dividing a single blast into two parts in sublevel caving. International Journal of Rock Mechanics and Minings Sciences, 2018, 104, 84-93.	2.6	21
22	Kinetic energy and its applications in mining engineering. International Journal of Mining Science and Technology, 2017, 27, 237-244.	4.6	21
23	Theory of Detonation. , 2016, , 197-216.		2
24	Failure of hanging roofs in sublevel caving by shock collision and stress superposition. Journal of Rock Mechanics and Geotechnical Engineering, 2016, 8, 886-895.	3.7	16
25	Borehole Instability in Malmberget Underground Mine. Rock Mechanics and Rock Engineering, 2015, 48, 1731-1736.	2.6	11
26	Reducing ground vibrations caused by underground blasts in LKAB Malmberget mine. International Journal for Blasting and Fragmentation, 2005, 9, 61-78.	0.2	15
27	Increasing ore extraction by changing detonator positions in LKAB Malmberget mine. International Journal for Blasting and Fragmentation, 2005, 9, 29-46.	0.2	17
28	A Feasibility Study on Controlling Ground Vibrations Caused by Blasts in Malmberget Underground Mine. International Journal for Blasting and Fragmentation, 2004, 8, 3-21.	0.2	4
29	Estimate of Loading Rate for a TBM Machine Based on Measured Cutter Forces. Rock Mechanics and Rock Engineering, 2004, 37, 239.	2.6	22
30	In-situ Measurements of Cutter Forces on Boring Machine at Åspång Hard Rock Laboratory Part I. Laboratory Calibration and In-situ Measurements. Rock Mechanics and Rock Engineering, 2003, 36, 39-61.	2.6	34
31	In-situ Measurements of Cutter Forces on Boring Machine at Åspång Hard Rock Laboratory Part II. Characteristics of Cutter Forces and Examination of Cracks Generated. Rock Mechanics and Rock Engineering, 2003, 36, 63-83.	2.6	32