

Zong-Xian Zhang

List of Publications by Year in descending order

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papers

584
citations

516215

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32
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32
docs citations

32
times ranked

276
citing authors

#	ARTICLE	IF	CITATIONS
1	Fracture Processes in Granite Blocks Under Blast Loading. <i>Rock Mechanics and Rock Engineering</i> , 2019, 52, 853-868.	2.6	49
2	Measurement of shock pressure and shock-wave attenuation near a blast hole in rock. <i>International Journal of Impact Engineering</i> , 2019, 125, 27-38.	2.4	47
3	Experimental Investigation of Blast-Induced Fractures in Rock Cylinders. <i>Rock Mechanics and Rock Engineering</i> , 2019, 52, 2569-2584.	2.6	41
4	In-situ Measurements of Cutter Forces on Boring Machine at Åspå Hard Rock Laboratory Part I. Laboratory Calibration and In-situ Measurements. <i>Rock Mechanics and Rock Engineering</i> , 2003, 36, 39-61.	2.6	34
5	In-situ Measurements of Cutter Forces on Boring Machine at Åspå Hard Rock Laboratory Part II. Characteristics of Cutter Forces and Examination of Cracks Generated. <i>Rock Mechanics and Rock Engineering</i> , 2003, 36, 63-83.	2.6	32
6	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
7	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
8	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
9	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
10	Estimate of Loading Rate for a TBM Machine Based on Measured Cutter Forces. <i>Rock Mechanics and Rock Engineering</i> , 2004, 37, 239.	2.6	22
11	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
12	Kinetic energy and its applications in mining engineering. <i>International Journal of Mining Science and Technology</i> , 2017, 27, 237-244.	4.6	21
13	A case study of dividing a single blast into two parts in sublevel caving. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2018, 104, 84-93.	2.6	21
14	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
15	Increasing ore extraction by changing detonator positions in LKAB Malmberget mine. <i>International Journal for Blasting and Fragmentation</i> , 2005, 9, 29-46.	0.2	17
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	Failure of hanging roofs in sublevel caving by shock collision and stress superposition. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2016, 8, 886-895.	3.7	16
18	Reducing ground vibrations caused by underground blasts in LKAB Malmberget mine. <i>International Journal for Blasting and Fragmentation</i> , 2005, 9, 61-78.	0.2	15

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Borehole Instability in Malmberget Underground Mine. <i>Rock Mechanics and Rock Engineering</i> , 2015, 48, 1731-1736.	2.6	11
22	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
23	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
24	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
25	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
26	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
27	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
28	A Feasibility Study on Controlling Ground Vibrations Caused by Blasts in Malmberget Underground Mine. <i>International Journal for Blasting and Fragmentation</i> , 2004, 8, 3-21.	0.2	4
29	Effect of Specimen Placement on Model Rock Blasting. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 3945-3960.	2.6	4
30	Theory of Detonation. , 2016, , 197-216.		2
31	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