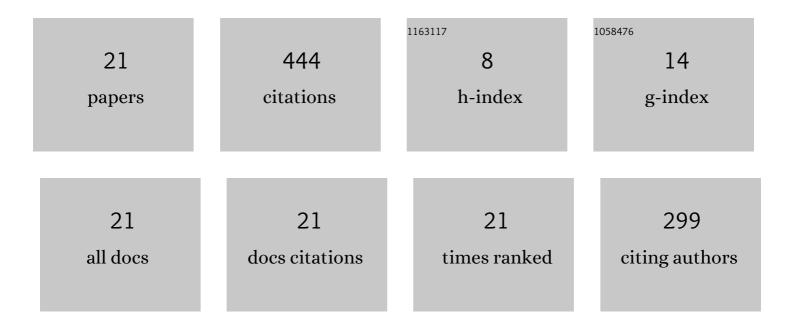
Huaifeng Sun

List of Publications by Year in descending order

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#	Article	lF	CITATIONS
1	An overview of ahead geological prospecting in tunneling. Tunnelling and Underground Space Technology, 2017, 63, 69-94.	6.2	255
2	Three-dimensional Modeling of Transient Electromagnetic Responses of Water-bearing Structures in Front of a Tunnel Face. Journal of Environmental and Engineering Geophysics, 2014, 19, 13-32.	0.5	46
3	Multi-component and multi-array TEM detection in karst tunnels. Journal of Geophysics and Engineering, 2012, 9, 359-373.	1.4	38
4	Application of the comprehensive forecast system for water-bearing structures in a karst tunnel: a case study. Bulletin of Engineering Geology and the Environment, 2019, 78, 357-373.	3.5	33
5	Characterization of shallow karst using electrical resistivity imaging in a limestone mining area. Environmental Earth Sciences, 2017, 76, 1.	2.7	18
6	Scanning for water hazard threats with sequential water releasing tests in underground coal mines. Journal of Hydrology, 2020, 590, 125350.	5.4	17
7	Mapping water-abundant zones using transient electromagnetic and seismic methods when tunneling through fractured granite in the Qinling Mountains, China. Geophysics, 2020, 85, B147-B159.	2.6	9
8	Characteristic analysis and optimal survey area definition for semi-airborne transient electromagnetics. Journal of Applied Geophysics, 2020, 180, 104134.	2.1	8
9	Comprehensive Geophysical Investigation and Analysis of Lining Leakage for Water-Rich Rock Tunnels: A Case Study of Kaiyuan Tunnel, Jinan, China. Geotechnical and Geological Engineering, 2020, 38, 3449-3468.	1.7	8
10	Fast 3D transient electromagnetic forward modeling using BEDS-FDTD algorithm and GPU parallelization. Geophysics, 2022, 87, E359-E375.	2.6	5
11	Application of Ground Penetrating Radar to Rock Failure Analysis in High Risk Tunnels. Applied Mechanics and Materials, 2010, 34-35, 1661-1665.	0.2	2
12	CO ₂ Injection Monitoring Using Transient Electromagnetic in Ground-Borehole Configuration. Journal of Environmental and Engineering Geophysics, 2018, 23, 335-348.	0.5	2
13	Detection of karst caves during tunnel construction using groundâ€penetrating radar and advanced drilling: A case study in Guangxi Province, China. Near Surface Geophysics, 2022, 20, 265-278.	1.2	2
14	Asynchronous MMC PSA inversion of transient electromagnetic data. Exploration Geophysics, 2022, 53, 602-619.	1.1	1
15	A Parallel 3-D Finite Difference, Time Domain Method for Modeling of Transient Electromagnetic Diffusion Phenomena in Tunnels. , 2013, , .		0
16	GPU-based acceleration in modeling 3D time domain electromagnetic problems. , 2015, , .		0
17	Three dimensional time domain electromagnetic responses in tunnel environment. , 2015, , .		0
18	Advantages of full waveform time domain electromagnetic in near surface prospecting: recent modeling results. , 2015, , .		0

#	Article	IF	CITATIONS
19	Technology of transient electromagnetic synthetic aperture method in tunnel prediction. , 2011, , .		0
20	The simulation of Tunnel Boring Machine's TEM response and the elimination of its response - a feasibility study. , 2015, , .		0
21	Modeling and inversion of semi-airborne transient electromagnetic data. , 2019, , .		0