

# Huaifeng Sun

## List of Publications by Year in descending order

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21  
papers

444  
citations

1163117

8  
h-index

1058476

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g-index

21  
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21  
docs citations

21  
times ranked

299  
citing authors

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

#	ARTICLE	IF	CITATIONS
19	Multi-component and multi-array TEM detection in karst tunnels. Journal of Geophysics and Engineering, 2012, 9, 359-373.	1.4	38
20	Technology of transient electromagnetic synthetic aperture method in tunnel prediction. , 2011, , .		0
21	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