

# Deqiang Mao

## List of Publications by Year in descending order

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Version: 2024-02-01

24  
papers

870  
citations

430874

18  
h-index

610901

24  
g-index

24  
all docs

24  
docs citations

24  
times ranked

581  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Induced polarization response of porous media with metallic particles â€” Part 1: A theory for disseminated semiconductors. <i>Geophysics</i> , 2015, 80, D525-D538.   | 2.6  | 105       |
| 2  | Induced polarization response of porous media with metallic particles â€” Part 2: Comparison with a broad database of experimental data. <i>Geophysics</i> , 2015, 80, D539-D552.  | 2.6  | 79        |
| 3  | A temporal sampling strategy for hydraulic tomography analysis. <i>Water Resources Research</i> , 2013, 49, 3881-3896.   | 4.2  | 78        |
| 4  | An Application of Hydraulic Tomography to a Largeâ€”Scale Fractured Granite Site, Mizunami, Japan. <i>Ground Water</i> , 2016, 54, 793-804.  | 1.3  | 52        |
| 5  | Geophysical Monitoring of Hydrocarbon-Contaminated Soils Remediated with a Bioelectrochemical System. <i>Environmental Science &amp; Technology</i> , 2016, 50, 8205-8213.   | 10.0 | 46        |
| 6  | Usefulness of flux measurements during hydraulic tomographic survey for mapping hydraulic conductivity distribution in a fractured medium. <i>Advances in Water Resources</i> , 2014, 71, 162-176.                       | 3.8  | 45        |
| 7  | Necessary conditions for inverse modeling of flow through variably saturated porous media. <i>Advances in Water Resources</i> , 2013, 52, 50-61.   | 3.8  | 44        |
| 8  | Induced polarization response of porous media with metallic particles â€” Part 4: Detection of metallic and nonmetallic targets in time-domain induced polarization tomography. <i>Geophysics</i> , 2016, 81, D359-D375. | 2.6  | 43        |
| 9  | An application of hydraulic tomography to a deep coal mine: Combining traditional pumping tests with water inrush incidents. <i>Journal of Hydrology</i> , 2018, 567, 1-11.  | 5.4  | 43        |
| 10 | Dominance of electroactive microbiomes in bioelectrochemical remediation of hydrocarbon-contaminated soils with different textures. <i>Chemosphere</i> , 2019, 235, 776-784.   | 8.2  | 42        |
| 11 | Crossâ€”correlation analysis and information content of observed heads during pumping in unconfined aquifers. <i>Water Resources Research</i> , 2013, 49, 713-731.   | 4.2  | 39        |
| 12 | Joint interpretation of sequential pumping tests in unconfined aquifers. <i>Water Resources Research</i> , 2013, 49, 1782-1796.  | 4.2  | 35        |
| 13 | Validation of hydraulic tomography in an unconfined aquifer: A controlled sandbox study. <i>Water Resources Research</i> , 2015, 51, 4137-4155.  | 4.2  | 32        |
| 14 | Induced polarization response of porous media with metallic particles â€” Part 3: A new approach to time-domain induced polarization tomography. <i>Geophysics</i> , 2016, 81, D345-D357.                                | 2.6  | 32        |
| 15 | A rapid four-dimensional resistivity data inversion method using temporal segmentation. <i>Geophysical Journal International</i> , 2020, 221, 586-602.   | 2.4  | 32        |
| 16 | Induced polarization response of porous media with metallic particles â€” Part 8: Influence of temperature and salinity. <i>Geophysics</i> , 2018, 83, E435-E456.  | 2.6  | 24        |
| 17 | Induced polarization response of porous media with metallic particles â€” Part 5: Influence of the background polarization. <i>Geophysics</i> , 2017, 82, E77-E96.   | 2.6  | 21        |
| 18 | Induced polarization response of porous media with metallic particles â€” Part 6: The case of metals and semimetals. <i>Geophysics</i> , 2017, 82, E97-E110.   | 2.6  | 21        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Scanning for water hazard threats with sequential water releasing tests in underground coal mines. Journal of Hydrology, 2020, 590, 125350.                          | 5.4 | 17        |
| 20 | Delineation of LNAPL contaminant plumes at a former perfumery plant using electrical resistivity tomography. Hydrogeology Journal, 2021, 29, 1189-1201.              | 2.1 | 16        |
| 21 | Detailed LNAPL plume mapping using electrical resistivity tomography inside an industrial building. Acta Geophysica, 2022, 70, 1651-1663.                            | 2.0 | 9         |
| 22 | Exploration of Ordovician limestone aquifer heterogeneity with tomographic water releasing tests. Journal of Hydrology, 2022, 608, 127655.                           | 5.4 | 6         |
| 23 | Finding buried metallic pipes using a non-destructive approach based on 3D time-domain induced polarization data. Journal of Applied Geophysics, 2018, 151, 234-245. | 2.1 | 5         |
| 24 | Infiltration Assessments on Top of Yungang Grottoes by Time-Lapse Electrical Resistivity Tomography. Hydrology, 2022, 9, 77.   | 3.0 | 4         |