

# Rachida Bouhlila

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

1,022  
citations

516710

16  
h-index

454955

30  
g-index

59  
all docs

59  
docs citations

59  
times ranked

1020  
citing authors

#	ARTICLE	IF	CITATIONS
1	Simulating and monitoring water flow, salinity distribution and yield production under buried diffuser irrigation for date palm tree in Saharan Jemna oasis (North Africa). <i>Agriculture, Ecosystems and Environment</i> , 2022, 325, 107772.	5.3	14
2	Origins and processes of groundwater salinisation in Barka coastal aquifer, Sultanate of Oman. <i>Physics and Chemistry of the Earth</i> , 2022, 126, 103116.	2.9	10
3	Impact of subsurface drainage system on waterlogged and saline soils in a Saharan palm grove. <i>Catena</i> , 2022, 212, 106070.	5.0	4
4	Hydrogeochemical characteristics and sources of mirabilite in the high saline system of Sabkha Oum El Khialate, Southern Tunisia. <i>Applied Geochemistry</i> , 2022, 143, 105294.	3.0	5
5	Evaluation of modified Hilhorst models for pore electrical conductivity estimation using a low-cost dielectric sensor. <i>Arabian Journal of Geosciences</i> , 2022, 15, .	1.3	1
6	Identification of aquifer pollutionâ€™s point sources with the reciprocity principle. <i>Scientific Reports</i> , 2022, 12, .	3.3	1
7	Delineating the origins and processes of groundwater salinization and quality degradation in a coastal irrigated plain, Korba (Northeastern Tunisia). <i>Marine Pollution Bulletin</i> , 2022, 181, 113914.	5.0	11
8	A new technique of seawater intrusion control: development of geochemical cutoff wall. <i>Environmental Science and Pollution Research</i> , 2021, 28, 41794-41806.	5.3	9
9	Assessing the Effect of Damaged and Fractured Concrete Cutoff Wall on the Dynamics of Seawater Intrusion. <i>Water Resources Management</i> , 2021, 35, 5367.	3.9	2
10	Groundwater recharge assessment in an arid region through chloride mass balance and unsaturated numerical modelling: the Kasserine Aquifer System. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1.	1.3	3
11	Hydrogeochemical modeling for groundwater management in arid and semiarid regions using MODFLOW and MT3DMS: A case study of the Jeffara of Medenine coastal aquifer, Southâ€™Eastern Tunisia. <i>Natural Resource Modelling</i> , 2020, 33, e12282.	2.0	3
12	Impact of rainfall structure and climate change on soil and groundwater salinization. <i>Climatic Change</i> , 2020, 163, 395-413.	3.6	15
13	Modeling of Evaporation-Driven Multiple Salt Precipitation in Porous Media with a Real Field Application. <i>Geosciences (Switzerland)</i> , 2020, 10, 395.	2.2	4
14	Estimation of the soil hydraulic properties from field data by solving an inverse problem. <i>Scientific Reports</i> , 2020, 10, 9359.	3.3	15
15	Porosity change in heterogeneous and isotropic limestone coastal aquifer during mixing of seawater and freshwater. <i>Carbonates and Evaporites</i> , 2020, 35, 1.	1.0	0
16	Stagnation Points as Loci of Solute Concentration Extrema at the Evaporative Surface of a Random Porous Medium. <i>Transport in Porous Media</i> , 2019, 128, 861-879.	2.6	3
17	Refinement indicators for estimating hydrogeologic parameters. <i>Inverse Problems in Science and Engineering</i> , 2019, 27, 317-339.	1.2	3
18	Suitability evaluation of groundwater from the Skhira coastal aquifer of east-central Tunisia for use as drinking water. <i>E3S Web of Conferences</i> , 2019, 98, 09008.	0.5	0

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19	Impact of groundwater flow across tectonic aquifer compartments in a Miocene sandstone aquifer: three-dimensional hydrogeological modeling of the Kasserine aquifer system in central Tunisia and northeastern Algeria. <i>Hydrogeology Journal</i> , 2019, 27, 1345-1361.	2.1	6
20	Revisiting the salt dome problem: new insights with the salt dissolution and pollutant release—induced processes. <i>Arabian Journal of Geosciences</i> , 2019, 12, 1.	1.3	0
21	Modelling the Impact on Root Water Uptake and Solute Return Flow of Different Drip Irrigation Regimes with Brackish Water. <i>Water (Switzerland)</i> , 2019, 11, 425.	2.7	11
22	Laboratory Calibration and Field Validation of Soil Water Content and Salinity Measurements Using the 5TE Sensor. <i>Sensors</i> , 2019, 19, 5272.	3.8	12
23	Establishing complex compartments-aquifers connectivity via geochemical approaches towards hydrogeochemical conceptual model: Kasserine Aquifer System, Central Tunisia. <i>Journal of Geochemical Exploration</i> , 2018, 188, 257-269.	3.2	4
24	Spatial and Temporal Variations of Water Quality of Mateur Aquifer (Northeastern Tunisia): Suitability for Irrigation and Drinking Purposes. <i>Journal of Chemistry</i> , 2018, 2018, 1-15.	1.9	22
25	Impact of mixing induced calcite precipitation on the flow and transport. <i>Carbonates and Evaporites</i> , 2017, 32, 473-485.	1.0	3
26	Heterogeneity Effects on Evaporation-Induced Halite and Gypsum Co-precipitation in Porous Media. <i>Transport in Porous Media</i> , 2017, 118, 39-64.	2.6	10
27	Multivariate statistical analysis and hydrogeochemical modelling of seawater-freshwater mixing along selected flow paths: Case of Korba coastal aquifer Tunisia. <i>Estuarine, Coastal and Shelf Science</i> , 2017, 198, 636-647.	2.1	19
28	Quantification of hysteresis effects on a soil subjected to drying and wetting cycles. <i>International Agrophysics</i> , 2016, 30, 493-499.	1.7	8
29	3D geological modeling of the Kasserine Aquifer System, Central Tunisia: New insights into aquifer-geometry and interconnections for a better assessment of groundwater resources. <i>Journal of Hydrology</i> , 2016, 539, 223-236.	5.4	55
30	Isotopic and geochemical identifications of groundwater salinisation processes in Salalah coastal plain, Sultanate of Oman. <i>Chemie Der Erde</i> , 2016, 76, 243-255.	2.0	27
31	Reactive Henry problem: effect of calcite dissolution on seawater intrusion. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	2.7	11
32	A New Model Using Dynamic Contact Angle to Predict Hysteretic Soil Water Retention Curve. <i>Soil Science Society of America Journal</i> , 2016, 80, 1433-1442.	2.2	7
33	Application of multivariate statistical analysis and hydrochemical and isotopic investigations for evaluation of groundwater quality and its suitability for drinking and agriculture purposes: case of Oum Ali-Thelepte aquifer, central Tunisia. <i>Environmental Monitoring and Assessment</i> , 2016, 188, 135.	2.7	65
34	Nonstationary porosity evolution in mixing zone in coastal carbonate aquifer using an alternative modeling approach. <i>Environmental Science and Pollution Research</i> , 2015, 22, 10070-10082.	5.3	10
35	Modeling the hydrogeochemical evolution of brine in saline systems: Case study of the Sabkha of Oum El Khialate in South East Tunisia. <i>Applied Geochemistry</i> , 2015, 55, 160-169.	3.0	9
36	Modelling nonpoint source pollution by nitrate of soil in the Mateur plain, northeast of Tunisia. <i>Arabian Journal of Geosciences</i> , 2015, 8, 1057-1075.	1.3	16

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37	A water balance approach for quantifying subsurface exchange fluxes and associated errors in hill reservoirs in semiarid regions. <i>Hydrological Processes</i> , 2015, 29, 1861-1872.	2.6	10
38	Characterization of mechanisms and processes of groundwater salinization in irrigated coastal area using statistics, GIS, and hydrogeochemical investigations. <i>Environmental Science and Pollution Research</i> , 2015, 22, 2643-2660.	5.3	91
39	Effects of shallow water table, salinity and frequency of irrigation water on the date palm water use. <i>Journal of Hydrology</i> , 2014, 513, 81-90.	5.4	44
40	Hydrodynamic and salinity evolution of groundwaters during artificial recharge within semi-arid coastal aquifers: A case study of El Khairat aquifer system in Enfidha (Tunisian Sahel). <i>Journal of African Earth Sciences</i> , 2014, 97, 224-229.	2.0	13
41	Geochemistry and quality assessment of groundwater using graphical and multivariate statistical methods. A case study: Grombalia phreatic aquifer (Northeastern Tunisia). <i>Arabian Journal of Geosciences</i> , 2013, 6, 3545-3561.	1.3	39
42	Land-sea interface identification and submarine groundwater exchange (SGE) estimation. <i>Computers and Fluids</i> , 2013, 88, 569-578.	2.5	3
43	An integrated statistical methods and modelling mineral-water interaction to identifying hydrogeochemical processes in groundwater in Southern Tunisia. <i>Chemical Speciation and Bioavailability</i> , 2013, 25, 165-178.	2.0	24
44	Reactive Transport Parameter Estimation and Global Sensitivity Analysis Using Sparse Polynomial Chaos Expansion. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 4183-4197.	2.4	28
45	Characterization and modeling of water movement and salts transfer in a semi-arid region of Tunisia (Bou Hajla, Kairouan) - Salinization risk of soils and aquifers. <i>Computers and Electronics in Agriculture</i> , 2012, 86, 34-42.	7.7	35
46	Multiple flow solutions in buoyancy induced convection in a porous square box. <i>Water Resources Research</i> , 2012, 48, .	4.2	7
47	Use of geographical information system and water quality index to assess groundwater quality in El Khairat deep aquifer (Enfidha, Central East Tunisia). <i>Arabian Journal of Geosciences</i> , 2012, 5, 1379-1390.	1.3	75
48	Geochemical Characterization of Groundwater in a Miocene Aquifer, Southeastern Tunisia. <i>Environmental and Engineering Geoscience</i> , 2012, 18, 159-174.	0.9	14
49	Suitability assessment of shallow and deep groundwaters for drinking and irrigation use in the El Khairat aquifer (Enfidha, Tunisian Sahel). <i>Environmental Earth Sciences</i> , 2012, 65, 313-330.	2.7	16
50	Hydrochemical and statistical study of groundwaters in Gabes-south deep aquifer (south-eastern) Tunisia. <i>Environmental Earth Sciences</i> , 2011, 63, 101-110.	2.9	30
51	Hydrogeochemical characteristics and assessment of drinking water quality in Zeuss-Koutine aquifer, southeastern Tunisia. <i>Environmental Monitoring and Assessment</i> , 2011, 174, 283-298.	2.7	112
52	Recovering data in groundwater: boundary conditions and Wells positions and fluxes. <i>Computational Geosciences</i> , 2011, 15, 637-645.	2.4	8
53	Development and application of a conceptual hydrologic model to predict soil salinity within modern Tunisian oases. <i>Journal of Hydrology</i> , 2010, 380, 45-61.	5.4	50
54	Definition and interests of reciprocity and reciprocity gap principles for groundwater flow problems. <i>Advances in Water Resources</i> , 2010, 33, 899-904.	3.8	11

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55	A technique for improving the accuracy of quadrangular mixed finite elements for Darcy's flow on heterogeneous domains. Computers and Fluids, 2010, 39, 189-196.	2.5	1
56	Identification of aquifer point sources and partial boundary condition from partial overspecified boundary data. Comptes Rendus - Geoscience, 2008, 340, 245-250.	1.2	12
57	Groundwater management of Skhira aquifer (center east of Tunisia): flow modeling and planning under climate and anthropogenic constraints. , 0, 168, 155-164.		1
58	Simulating the effects of model parameters on stagnation points position during seawater intrusion. Environmental Science and Pollution Research, 0, , .	5.3	0