Rachida Bouhlila

List of Publications by Year
in descending order

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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	Hydrogeochemical characteristics and assessment of drinking water quality in Zeussâ€“Koutine aquifer, southeastern Tunisia. Environmental Monitoring and Assessment, 2011, 174, 283-298.	2.7	112
2	Characterization of mechanisms and processes of groundwater salinization in irrigated coastal area using statistics, GIS, and hydrogeochemical investigations. Environmental Science and Pollution Research, 2015, 22, 2643-2660.	5.3	91
3	Use of geographical information system and water quality index to assess groundwater quality in El Khairat deep aquifer (Enfidha, Central East Tunisia). Arabian Journal of Geosciences, 2012, 5, 1379-1390.	1.3	75
4	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. Environmental Monitoring and Assessment, 2016, 188, 135.	2.7	65
5	3D geological modeling of the Kasserine Aquifer System, Central Tunisia: New insights into aquifer-geometry and interconnections for a better assessment of groundwater resources. Journal of Hydrology, 2016, 539, 223-236.	5.4	55
6	Development and application of a conceptual hydrologic model to predict soil salinity within modern Tunisian oases. Journal of Hydrology, 2010, 380, 45-61.	5.4	50
7	Effects of shallow water table, salinity and frequency of irrigation water on the date palm water use. Journal of Hydrology, 2014, 513, 81-90.	5.4	44
8	Geochemistry and quality assessment of groundwater using graphical and multivariate statistical methods. A case study: Grombalia phreatic aquifer (Northeastern Tunisia). Arabian Journal of Geosciences, 2013, 6, 3545-3561.	1.3	39
9	Characterization and modeling of water movement and salts transfer in a semi-arid region of Tunisia (Bou Hajla, Kairouan) â€“ Salinization risk of soils and aquifers. Computers and Electronics in Agriculture, 2012, 86, 34-42.	7.7	35
10	Hydrochemical and statistical study of groundwaters in Gabes-south deep aquifer (south-eastern) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.9	30
11	Reactive Transport Parameter Estimation and Global Sensitivity Analysis Using Sparse Polynomial Chaos Expansion. Water, Air, and Soil Pollution, 2012, 223, 4183-4197.	2.4	28
12	Isotopic and geochemical identifications of groundwater salinisation processes in Salalah coastal plain, Sultanate of Oman. Chemie Der Erde, 2016, 76, 243-255.	2.0	27
13	An integrated statistical methods and modelling mineralâ€“water interaction to identifying hydrogeochemical processes in groundwater in Southern Tunisia. Chemical Speciation and Bioavailability, 2013, 25, 165-178.	2.0	24
14	Spatial and Temporal Variations of Water Quality of Mateur Aquifer (Northeastern Tunisia): Suitability for Irrigation and Drinking Purposes. Journal of Chemistry, 2018, 2018, 1-15.	1.9	22
15	Multivariate statistical analysis and hydrogeochemical modelling of seawater-freshwater mixing along selected flow paths: Case of Korba coastal aquifer Tunisia. Estuarine, Coastal and Shelf Science, 2017, 198, 636-647.	2.1	19
16	Suitability assessment of shallow and deep groundwaters for drinking and irrigation use in the El Khairat aquifer (Enfidha, Tunisian Sahel). Environmental Earth Sciences, 2012, 65, 313-330.	2.7	16
17	Modelling nonpoint source pollution by nitrate of soil in the Mateur plain, northeast of Tunisia. Arabian Journal of Geosciences, 2015, 8, 1057-1075.	1.3	16
18	Impact of rainfall structure and climate change on soil and groundwater salinization. Climatic Change, 2020, 163, 395-413.	3.6	15

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19	Estimation of the soil hydraulic properties from field data by solving an inverse problem. Scientific Reports, 2020, 10, 9359.	3.3	15
20	Geochemical Characterization of Groundwater in a Miocene Aquifer, Southeastern Tunisia. Environmental and Engineering Geoscience, 2012, 18, 159-174.	0.9	14
21	Simulating and monitoring water flow, salinity distribution and yield production under buried diffuser irrigation for date palm tree in Saharan Jemna oasis (North Africa). Agriculture, Ecosystems and Environment, 2022, 325, 107772.	5.3	14
22	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). Journal of African Earth Sciences, 2014, 97, 224-229.	2.0	13
23	Identification of aquifer point sources and partial boundary condition from partial overspecified boundary data. Comptes Rendus - Geoscience, 2008, 340, 245-250.	1.2	12
24	Laboratory Calibration and Field Validation of Soil Water Content and Salinity Measurements Using the 5TE Sensor. Sensors, 2019, 19, 5272.	3.8	12
25	Definition and interests of reciprocity and reciprocity gap principles for groundwater flow problems. Advances in Water Resources, 2010, 33, 899-904.	3.8	11
26	Reactive Henry problem: effect of calcite dissolution on seawater intrusion. Environmental Earth Sciences, 2016, 75, 1.	2.7	11
27	Modelling the Impact on Root Water Uptake and Solute Return Flow of Different Drip Irrigation Regimes with Brackish Water. Water (Switzerland), 2019, 11, 425.	2.7	11
28	Delineating the origins and processes of groundwater salinization and quality degradation in a coastal irrigated plain, Korba (Northeastern Tunisia). Marine Pollution Bulletin, 2022, 181, 113914.	5.0	11
29	Nonstationary porosity evolution in mixing zone in coastal carbonate aquifer using an alternative modeling approach. Environmental Science and Pollution Research, 2015, 22, 10070-10082.	5.3	10
30	A water balance approach for quantifying subsurface exchange fluxes and associated errors in hill reservoirs in semiarid regions. Hydrological Processes, 2015, 29, 1861-1872.	2.6	10
31	Heterogeneity Effects on Evaporation-Induced Halite and Gypsum Co-precipitation in Porous Media. Transport in Porous Media, 2017, 118, 39-64.	2.6	10
32	Origins and processes of groundwater salinisation in Barka coastal aquifer, Sultanate of Oman. Physics and Chemistry of the Earth, 2022, 126, 103116.	2.9	10
33	Modeling the hydrogeochemical evolution of brine in saline systems: Case study of the Sabkha of Oum El Khialate in South East Tunisia. Applied Geochemistry, 2015, 55, 160-169.	3.0	9
34	A new technique of seawater intrusion control: development of geochemical cutoff wall. Environmental Science and Pollution Research, 2021, 28, 41794-41806.	5.3	9
35	Recovering data in groundwater: boundary conditions and Wellsâ€™ positions and fluxes. Computational Geosciences, 2011, 15, 637-645.	2.4	8
36	Quantification of hysteresis effects on a soil subjected to drying and wetting cycles. International Agrophysics, 2016, 30, 493-499.	1.7	8

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37	Multiple flow solutions in buoyancy induced convection in a porous square box. Water Resources Research, 2012, 48, .	4.2	7
38	A New Model Using Dynamic Contact Angle to Predict Hysteretic Soil Water Retention Curve. Soil Science Society of America Journal, 2016, 80, 1433-1442.	2.2	7
39	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. Hydrogeology Journal, 2019, 27, 1345-1361.	2.1	6
40	Hydrogeochemical characteristics and sources of mirabilite in the high saline system of Sabkha Oum El Khialate, Southern Tunisia. Applied Geochemistry, 2022, 143, 105294.	3.0	5
41	Establishing complex compartments-aquifers connectivity via geochemical approaches towards hydrogeochemical conceptual model: Kasserine Aquifer System, Central Tunisia. Journal of Geochemical Exploration, 2018, 188, 257-269.	3.2	4
42	Modeling of Evaporation-Driven Multiple Salt Precipitation in Porous Media with a Real Field Application. Geosciences (Switzerland), 2020, 10, 395.	2.2	4
43	Impact of subsurface drainage system on waterlogged and saline soils in a Saharan palm grove. Catena, 2022, 212, 106070.	5.0	4
44	Landâ€“sea interface identification and submarine groundwater exchange (SGE) estimation. Computers and Fluids, 2013, 88, 569-578.	2.5	3
45	Impact of mixing induced calcite precipitation on the flow and transport. Carbonates and Evaporites, 2017, 32, 473-485.	1.0	3
46	Stagnation Points as Loci of Solute Concentration Extrema at the Evaporative Surface of a Random Porous Medium. Transport in Porous Media, 2019, 128, 861-879.	2.6	3
47	Refinement indicators for estimating hydrogeologic parameters. Inverse Problems in Science and Engineering, 2019, 27, 317-339.	1.2	3
48	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. Natural Resource Modelling, 2020, 33, e12282.	2.0	3
49	Groundwater recharge assessment in an arid region through chloride mass balance and unsaturated numerical modelling: the Kasserine Aquifer System. Arabian Journal of Geosciences, 2021, 14, 1.	1.3	3
50	Assessing the Effect of Damaged and Fractured Concrete Cutoff Wall on the Dynamics of Seawater Intrusion. Water Resources Management, 2021, 35, 5367.	3.9	2
51	A technique for improving the accuracy of quadrangular mixed finite elements for Darcyâ€™s flow on heterogeneous domains. Computers and Fluids, 2010, 39, 189-196.	2.5	1
52	Groundwater management of Skhira aquifer (center east of Tunisia): flow modeling and planning under climate and anthropogenic constraints. , 0, 168, 155-164.		1
53	Evaluation of modified Hilhorst models for pore electrical conductivity estimation using a low-cost dielectric sensor. Arabian Journal of Geosciences, 2022, 15, .	1.3	1
54	Identification of aquifer pollutionâ€™s point sources with the reciprocity principle. Scientific Reports, 2022, 12, .	3.3	1

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55	Suitability evaluation of groundwater from the Skhira coastal aquifer of east-central Tunisia for use as drinking water. E3S Web of Conferences, 2019, 98, 09008.	0.5	0
56	Revisiting the salt dome problem: new insights with the salt dissolution and pollutant releaseâ€“induced processes. Arabian Journal of Geosciences, 2019, 12, 1.	1.3	0
57	Porosity change in heterogeneous and isotropic limestone coastal aquifer during mixing of seawater and freshwater. Carbonates and Evaporites, 2020, 35, 1.	1.0	0
58	Simulating the effects of model parameters on stagnation points position during seawater intrusion. Environmental Science and Pollution Research, 0, , .	5.3	0