

<u>د.علی محتشمی</u>

ستان وساور

Engineering Research Team.. كرسي اليونسكو لدراسات الأفلاج وعلم المياه الاجتماعي جامعة نزوى، سلطنة عمان

هاتف: 871(968+)

محول: 871

البريد الإلكتروني: mohtashami@unizwa.edu.om

موقع المكتب: 25B G-02...

يعمل في الجامعة: منذ 2022

الحالة الاجتماعية: Married...

Ali Mohtashami received his BSc in Civil Engineering from the University of Isfahan in 2014. Then he was accepted to the University of Birjand, from which he obtained his MSc in Civil Engineering, Water Resources Management in 2017, and then he got his PhD certificate from the University of Sistan and Baluchestan in 2021. His PhD thesis was on the application of the data assimilation method in the meshless local Petrov-Galerkin groundwater flow simulation model. During his PhD, he was awarded as the top student by the University of Sistan and Baluchestan, Faculty of Engineering. He is currently an assistant professor in the UNESCO chair of Aflaj studies and Socio-Hydrology (UCASAS) at the University of Nizwa. He is a referee for more than 20 civil, water resources, and agricultural journals. He has authored or co-authored over 31 scientific papers, two books, and 5 research projects

المؤهلات الأكاديمية

PhD of Civil Engineering, University of Sistan and Baluchestan, 2021

MSc, Civil Engineering, University of Birjand, 2017

BSc. University of Isfahan, 2014

أنشطة التدريس

Lecturer in Birjand University of Technology, Courses: Fluid Dynamics, Hydraulic of Open Channels, Water and Waste water Treatment,, 2021-2022

Lecturer in University of Birjand, Courses: Water Machines, 2022-2023

Lecturer at Bozorgmehr University of Qaenat, Courses: Environmental Engineering, Fluid

Dynamics، 2021-2022	
Lecturer in Birjand University of Technology، Courses: Fluid Dynamics, Hydraulic of Open Channels، 2022-2023	
Environmental Informatics, Fall 2023	
Fundamentals of Air Pollution, Fall 2023	
Energy and Environment, Spring 2024	
Hydrology and Hydraulic, Spring 2024	
Water Supply and Sewer Drainage Systems, Fall 2024	
Aflaj Oman for Engineers, Spring 2025	
Environmental Informatics, Spring 2025	
	4.511
طة البحثية م <i>امات البحثية ـ</i>	الانشا
البطية المنافقة المنا	<i>, ,</i>
Groundwater	
Numerical Method	
Aflaj Knowledge	
Quality Modeling	
Modeling and Simulation	
ض في المؤتمرات ــ	<i>العر</i> د
Estimation groundwater balance with using meshless local Petrov-Galerkin, ``. 1st National Conference on Modelling and New Technologies in Water Management, 2018	
ور المؤتمرات ــ	حض
15th GCC Water Conference، Doha, Qatar, 28/04/2024	
شورات ـ	المنث
مقال:	
Application of the quality border delineation for sustainable protection of groundwater 2025 .1 resources, qanats, against contamination using meshless numerical method	
Qanats' assistance in reviving groundwater resources using numerical groundwater 2025 .2 model	
Engineering Thoughts Embedded in Ancient Groundwater Techniques: The Case of Falaj 2025 .3 in Oman	
Identification of the hydrological model of a runoff-sourced falaj using empirical methods 2025 .4	
Simulation of sea water infiltration in coastal aquifer using MLPG numerical method 2024 .5	
Quality Prediction of Sustainable Groundwater Resources, a Falaj in Oman 2024 .6	
Computation of minimum adjustment factors for sustainable groundwater management 2024 .7	

- using data assimilation and Vensim dynamic model
- <u>Hydraulic of sustainable groundwater resources, aflaj in Oman, using meshless numerical</u> 2024 .8 method
 - <u>Presentation of a new decision-making plan for prioritizing the rehabilitation of 2023 .9</u>
 (sustainable groundwater resources (case study: 9 aflaj of Oman
 - <u>Data assimilation application in prediction of flowrate for a sustainable groundwater</u> 2023 .10 resource: Falai Al-Khatmain, Oman
 - Models Are Essential for Water Resource Management 2023 .11
 - Inverse modeling application for aquifer parameters estimation using a precise 2023 .12 simulation-optimization model
 - Qanat's hydraulic harim determination by the usage of meshless numerical method 2023.13
- Numerical simulation of groundwater in an unconfined aquifer with a novel hybrid model 2022 .14

 ((case study: Birjand Aquifer, Iran
 - Numerical and Experimental Assessment of Suspended Material Effects on Water Loss 2022 .15

 Reduction from Irrigation Channels
 - <u>Determination the optimal dimensions of concrete gravity dam by using metaheuristic</u> 2022 .16 (algorithms (Comparison of algorithms
 - Application of random walk algorithm into finite element numerical groundwater model 2022 .17 for capture zone depiction
 - Monitoring Network Design with MLPG-TLBO Hybrid Model (Case study Birjand, Iran 2022 .18
 - Application of Meshless local Petrov-Galerkin approach for steady state groundwater 2022 .19

 flow modeling
- Numerical Investigation the effect of Groundwater Uplift on the Interface Between Fresh 2022 .20
 and Saline Water and Mixing Zone in the Aquifers Adjacent Deserts
 - <u>Determination of Well's Capture Zones Using Random Walk Algorithm and FeFlow</u> 2021 .21

 Simulation Model
 - <u>Leakage Detection in Water Distribution Networks by the Use of Analytical and 2021 .22</u>

 <u>Experimental Models</u>
 - Estimation of Parameters in Groundwater Modeling by Particle Filter linked to the 2021 .23

 meshless local Petrov-Galerkin Numerical Method
 - <u>Determination of the optimal location of wells in aquifers with an accurate simulation- 2020 .24</u> optimization model based on the meshless local Petrov-Galerkin
- <u>Usage of Particle Filter for Exact Estimation of Constant Head Boundaries in Unconfined</u> 2020 .25

 Aguifer
- Numerical Simulation of Groundwater Recharge by Injection Wells with Using Meshless 2019 .26

 Local Petrov-Galerkin
 - Experimental and numerical investigation of the effects of muddy water on seepage 2019 .27 reduction in earthen channels and dry zone of ganat
 - <u>Determination of the capture zone of wells by using meshless local Petrov-Galerkin 2019 .28</u>
 (numerical model in confined aguifer in unsteady state (Case study: Birjand Aguifer
 - Computation of Groundwater Balance Using Numerical MLPG Method (Case Study: 2019 .29

 (Birjand Unconfined Aquifer
- Prediction of Groundwater Fluctuations Using Meshless Local Petrov-Galerkin Numerical 2019 .30

(Method in a Field Aquifer (Birjand Aquifer

<u>Investigation the effects of muddy water in decreasing seepage in the transition</u> 2018 .31 (channels (Case study: Ferdows, South Khorasan province

<u>Development of two dimensional groundwater simulation model using meshless method</u> 2017 .32 based on MLS approximation function in unconfined aguifer in transient state

كتاب:

Novel Methods for Groundwater Management 2023 .1

Introduction to Groundwater Flow Modelling (Finite Element, Isogeometric and Meshless 2020 .2 (Methods

الأنشطة الاستشارية

Research Expert, Regional Water Company, 2021-2022

العضوية في الهيئات المهنية

2022–الآن: • Iranian Hydraulic Association

2021–الآن: • Iranian Water Resources Management

2021–الآن: • Iranian Rainwater Catchments Systems Association

2021–الآن: • Iranian Water and Waste Water Association

الجوائز والتقدير

Elite Graduate Student of Engineering Faculty in University of Sistan & Baluchestan 2022

Top Student of Engineering Faculty of University of Sistan and Baluchestan 2020

• • •