



Bashar F Maarooof

بشار فؤاد معروف

Professor

PROFILE

PhD., Professor, Geomorphologist, and Digital Terrain Analyst, Department of Geography, University of Babylon, Hillah, Babil 51001, Iraq. Major Research Interests: Fluvial Geomorphology, Geomorphometry, Watershed Modeling, Geomorphological Mapping, Geomorphological Processes, Rivers, Water Erosion, Environmental Geomorphology, Ecosystems, Digital Terrain Analysis, and Geoinformatics (GIS).

ACADEMIC TITLES

2023-03-28 Professor

TEACHING EXPERIENCE

Professor of Geomorphology and Digital Terrain Analysis

University of Babylon - Department of Geography

2010-04 - Present

COURSES

- Geoarchaeology (101)
- Archaeological survey and geographic information systems (102)
- Geomorphology (103)
- Geography of Environment and Pollution (101)
- Oceanography (101)
- Geographical Information System - GIS (101)
- Geography of Arid Lands (105)
- Geography of Natural Resources (106)
- Cartography (107)
- Astronomical Geography (108)
- Geography of Iraq (109)
- Geology (110)

ADMINISTRATIVE POSITIONS

2010-04-19 - Present Geomorphologist and Digital Terrain Analyst

INTERNATIONAL MEMBERSHIPS

- British Society for Geomorphology BSG
- Indian Ecological Society
- European Association of Geographers - EUROGEO

CONTACT

Phone: 07802483090

Email: basharma@uobabylon.edu.iq

basharma@uobabylon.edu.iq

EDUCATION

دكتوراه (19-04-2015)

Geomorphology

University of Kufa

ماجستير (04-03-2009)

Environmental Geography

University of Babylon

بكالوريوس (01-08-2004)

Geography

University of Babylon

RESEARCH METRICS

h-index (Scopus)	6
h-index (GS)	8
Citations (Scopus)	92
Citations (GS)	167
Documents (Scopus)	16
Documents (GS)	36

RESEARCH INTERESTS

- Geomorphology
- Fluvial Geomorphology
- Geomorphometry
- Watershed Modeling
- Water Erosion
- Rivers
- Geomorphological Mapping
- Digital Terrain Analysis
- Geographical Information System GIS



1. **Geomorphological Investigation of the Slopes Implementing Geospatial Modelling in the Abu Hadair Watershed, Iraqi Southern Desert**
2026
2. **Integrated Geospatial Analysis of Geomorphometric Characteristics in the Hasab Watershed's Drainage Network, Iraqi Southern Desert**
Iraqi National Journal of Earth Science 26 (2), 124-142, 2026 | 2026
3. **Slope stability engineering of selected sites at Al-Rahimawi Valley, West of Najaf, Middle of Iraq**
AIP Conference Proceedings 3408 (1), 2026 | 2026
4. **Slope stability engineering of selected sites at Al-Rahimawi Valley, West of Najaf, Middle of Iraq**
AIP Conference Proceedings 3408 (1), 060007, 2026 | 2026
5. **Estimating soil erosion utilizing geospatial method and revised universal soil loss equation (RUSLE) of Abu Ghraibat Watershed, Eastern Misan Governorate, Iraq**
Scientific Reports, 2025 | 2025 | Cited: 3
6. **Fluvial Landforms Classification Using Geospatial Modeling of Al-Jazeera Eastern Region at Misan Governorate, Iraq**
Iraqi National Journal of Earth Science 25 (2), 199-218, 2025 | 2025 | Cited: 7
7. **CLASSIFYING FLUVIAL LANDFORMS USING GEOSPATIAL MODELING IN AL-ASHAALI WATERSHED, IRAQI SOUTHERN DESERT**
Bulletin of the Iraq Natural History Museum (P-ISSN: 1017-8678, E-ISSN: 2311 ..., 2025 | 2025 | Cited: 6
8. **Rainwater Harvesting Site Assessment Using Geospatial Technologies in a Semi-Arid Region: Toward Water Sustainability**
Water 17 (15), 2317, 2025 | 2025 | Cited: 5
9. **Geomorphological perspective of geodiversity: A case study of Al-Zubaidat area, east of Misan Governorate (Iraq)**
International Journal of Geoheritage and Parks 13 (4), 616-637, 2025 | 2025 | Cited: 1
10. **Estimating Soil Erosion Utilising Geospatial Method and Revised Universal Soil Loss Equation (RUSLE) of Abu Ghraibat Watershed, Eastern Misan Governorate, Iraq**
2025
11. **River Flow 2024: Proceedings of the 12th International Conference on Fluvial Hydraulics, Liverpool, UK, 2nd-6th September, 2024**
CRC Press, 2025 | 2025 | Cited: 2
12. **Integrated Geospatial Analysis of Geomorphometric Characteristics in the Hasab Watershed's Drainage Network, Iraqi Southern Desert**
Iraqi National Journal of Earth Science, 2025 | 2025
13. **QUANTITATIVE ANALYSIS USING GEOSPATIAL MODELING OF AL-RAHIMAWI WATERSHED'S SHAPE PROPERTIES IN THE IRAQI SOUTHERN DESERT**
Bulletin of the Iraq Natural History Museum (P-ISSN: 1017-8678, E-ISSN: 2311 ..., 2024 | 2024 | Cited: 5
14. **Climate Change and Environmental Degradation in the MENA Region**
https://link.springer.com/book/10.1007/978-3-031-74395-5_136, 473, 2024 | 2024 | Cited: 3
15. **Assessing Climate Change Impacts on Rainfall-Runoff in Northern Iraq: A Case Study of Kirkuk Governorate, a Semi-Arid Region**
Climate Change and Environmental Degradation in the MENA Region, 93-111, 2024 | 2024 | Cited: 6
16. **Integrated geospatial approach for adaptive rainwater harvesting site selection under the impact of climate change**
Stochastic Environmental Research and Risk Assessment 38 (3), 1009-1033, 2024 | 2024 | Cited: 25
17. **Assessing Climate Change Impacts on Rainfall-Runoff in Northern Iraq: A Case Study of Kirkuk Governorate, a Semi-Arid Region**
The Handbook of Environmental Chemistry 1, 1-19, 2024 | 2024
18. **Assessing Climate Change Impacts on Rainfall-Runoff in Northern Iraq: A Case Study of Kirkuk Governorate, a Semi-Arid Region**
2024

19. **Integrated geospatial approach for adaptive rainwater harvesting site selection under the impact of climate change**
Stochastic environmental research and risk assessment 38 (3), 1009-1033, 2024 | 2024 | Cited: 34
20. **Assessing climate change impacts on Rainfall-Runoff in Northern Iraq: A case study of Kirkuk Governorate, a Semi-Arid region**
Climate change and environmental degradation in the MENA region, 93-111, 2024 | 2024 | Cited: 7
21. **A Case Study of Kirkuk Governorate**
Climate Change and Environmental Degradation in the MENA Region, 93, 2024 | 2024
22. **Geomorphological Analysis of Chemical Weathering Features in Al-Band Hills Area, Eastern of Misan Governorate, Iraq**
Iraqi National Journal of Earth Science 23 (1), 67.0-84.0, 2023 | 2023 | Cited: 2
23. **Geomorphological Analysis of Chemical Weathering Features in Al-Band Hills Area, Eastern of Misan Governorate, Iraq.**
Iraqi National Journal of Earth Sciences 23 (1), 2023 | 2023 | Cited: 9
24. **Geomorphological Analysis of Chemical Weathering Features in Al-Band Hills Area, Eastern of Misan Governorate, Iraq**
Iraqi National Journal of Earth Science 23 (1), 67-84, 2023 | 2023 | Cited: 1
25. **Integrated geospatial approach for adaptive rainwater harvesting site selection under the impact of climate change**
Stochastic Environmental Research and Risk Assessment, 1-25, 2023 | 2023
26. **Geographical Assessment of the Natural Environment at Al-Huwaizah Marsh, Eastern of Misan Governorate (Iraq)**
Misan Journal of Academic Studies 26 (22), 293-310, 2023 | 2023 | Cited: 6
27. **Environmental assessment of Al-Hillah River pollution at Babil Governorate (Iraq)**
Journal of the Geographical Institute "Jovan Cvijic", SASA 73 (1), 1-16, 2023 | 2023 | Cited: 14
28. **Geomorphometric Assessment of the Terrain Characteristics of Al-Sharhani Drainage Basin, Eastern of Misan Governorate, Iraq.**
Journal Babylon Center for Humanities Studies 12 (3), 39-62, 2022 | 2022 | Cited: 1
29. **Geomorphological Assessment Using Geoinformatics Applications of the Sloping System of Al-Ashaali Drainage Basin at Iraqi Southern Desert**
Iraqi National Journal of Earth Science 22 (1), 38-54, 2022 | 2022 | Cited: 9
30. **Geomorphometric Analysis of Al-Teeb River Meanders Between Al-Sharhani Basin and Al-Sanaf Marsh, Eastern of Misan Governorate, Iraq**
Misan Journal of Academic Studies 21 (42), 441-455, 2022 | 2022 | Cited: 8
31. **Geomorphometric assessment of the river drainage network at Al-Shakak basin (Iraq)**
Зборник радова Географског института "Јован Цвијић" САНУ 72 (1), 1-13, 2022 | 2022 | Cited: 5
32. **Geomorphometric assessment of the river drainage network at Al-Shakak basin (Iraq)**
Journal of the Geographical Institute "Jovan Cvijic", SASA 72 (1), 1-13, 2022 | 2022 | Cited: 12
33. **Geographical Assessment of Natural Resources at Abu-Hadair Drainage Basin in Al-Salman Desert, Southern Iraq**
Indian Journal of Ecology, 2021 | 2021 | Cited: 13
34. **Geographical assessment of natural resources at abu-hadair drainage basin in al-salman desert, southern Iraq**
Indian Journal of Ecology 48 (3), 796-801, 2021 | 2021 | Cited: 6
35. **Water erosion of the slopes of tayyar drainage basin in the desert of Muthanna in Southern Iraq**
Indian Journal of Ecology 47 (3), 638-644, 2020 | 2020 | Cited: 10
36. **Geographical analysis of the ecological tourism components of Al Hammar marshes in southern Iraq**
Misan Journal of Academic Studies 18 (37), 1-13, 2019 | 2019 | Cited: 3
37. **Formal Properties and Geomorphological Depths of the Shakak Valley, Eastern Province of Maysan Governorate, Iraq**
Kufa Journal of Arts 2 (35), 515-536, 2018 | 2018

38. **Morphological characteristics and their geomorphological indications of the Wadi al-Shakak basin, east of Maysan Governorate-Iraq**
Kufa Journal of Arts 1 (35), 515-536, 2018 | 2018
39. **Morphometric analysis of the water drainage network of Al-Sharhani basin**
Journal of Geographical Research 1 (26), 455-486, 2017 | 2017
40. **Slopes Morphology of Hasab Wadi Basin in Southern Iraqi Desert**
Misan Journal of Academic Studies 16 (32), 200-225, 2017 | 2017
41. **Geomorphological characteristics of the East Tigris region between Al-Shihabi and Al-Huwaizah Marsh in southeastern Iraq**
Journal of Misan Researches 13 (26), 366-390, 2017 | 2017 | Cited: 4
42. **Morphometric analysis of the water drainage network of Al-Sharhani basin**
Journal of Geographical Research 1 (26), 455-484, 2017 | 2017
43. **Morphometric analysis of the characteristics of the river network of the Wadi Abu Hadir Basin in the Al-Salman Badia in southwestern Iraq**
Geographical Research Journal (Discontinued) 1 (22), 119-147, 2015 | 2015
44. **Tectonic Land Forms of Abu - Hadair Drainage basin in Al-Salman Desert in southern Iraq**
Journal of the College of Education for Girls for Humanities 1 (17), 81-114, 2015 | 2015
45. **Morphometric analysis of the characteristics of the riverine network of the Wadi Abu Hadir Basin in the Al-Salman Badia in southwestern Iraq**
Journal of Geographical Research 1 (22), 119-147, 2015 | 2015 | Cited: 3
46. **Tectonic Land Forms of Abu - Hadair Drainage basin in Al-Salman Desert in southern Iraq**
Journal of Education College for Women for Humanistic sciences 1 (22), 81-114, 2015 | 2015
47. **Land Forms of Wadi Abu—Hadair Basin in Al—Salman Desert Southwest of Iraq**
University of Kufa, 2015 | 2015
48. **Spatial variation of water pollution in AL - Hillah River**
Misan Journal of Academic Studies 11 (21), 156-175, 2012 | 2012
49. **Spatial Analysis of Groundwater Pollution in Hilla City**
Misan Journal of Academic Studies 11 (21), 156-175, 2012 | 2012 | Cited: 2
50. **Spatial analysis of groundwater pollution in Al-Hillah city**
Misan Journal of Academic Studies 11 (21), 156-175, 2012 | 2012
51. **Spatial relationships of water pollution in Al-Hillah River**
Misan Journal of Academic Studies, 67-90, 2011 | 2011
52. **The Influence of Human Activity in the Temporal and Local Variation of AL-Hillah River Water Pollution**
University of Babylon, 2009 | 2009
53. **Estimating Soil Erosion Utilising Geospatial Method and Revised Universal Soil Loss Equation (RUSLE) of Abu Ghraibat Watershed, Eastern Misan Governorate, Iraq**
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54. **RIVER FLOW 2024**
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