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RESEARCH METRICS

h-index (Scopus)	26
h-index (GS)	0
Citations (Scopus)	2392
Citations (GS)	0
Documents (Scopus)	75
Documents (GS)	0

PUBLICATIONS (93)

1. **Climate driven shifts in precipitation and mean temperature in western Iraq (Anbar Province): spatiotemporal projections using LARS-WG 8.0 and CMIP6**
Modeling Earth Systems and Environment 12 (5), 271, 2026 | 2026

2. **A novel hybrid photovoltaic current prediction model utilizing singular spectrum analysis, adaptive Beluga Whale optimization, and improved extreme learning machine**
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3. **Projecting future precipitation in Northern Iraq applying CMIP6 ensembles and LARS-WG model: A case study of Aqra Region**
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4. **Predicting Temperatures in an Extreme Climatic Environment Using Hybrid Neural Networks: Evaluating Noise Robustness**
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5. **Potential Spatiotemporal Variability for Meteorological Drought in Anbar Governorate, Iraq Using CMIP6 Models**
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6. **Streamflow Simulation Based on Pre-Processing-Based Hybrid Model: SSA-AR Model**
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7. **Analysing impact of future emission scenarios on rainfall in rainfed agricultural zones in Northern Iraq using satellite data and CMIP6 models**
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8. **Prediction of precipitation in Western of Iraq by usin g the LARS–WG 8.0 model**
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9. **Examining the perceptions and permissions of reusing treated wastewater in a region facing water scarcity**
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10. **Precipitation Projection Using LARS-WG and CMIP6 Models**
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14. **Metaheuristic algorithms applied in ANN salinity modelling**
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15. **The weight fuzzy judgment method for the benchmarking sustainability of oil companies**
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16. **Forecasting urban water demand using different hybrid-based metaheuristic algorithms' inspire for extracting artificial neural network hyperparameters**
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17. **Heavy vehicle crashes at unsignalized intersections: embracing unobserved heterogeneity in injury severity analysis**
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18. **Using the LARS-WG model to predict the maximum temperature in Zakho City, Iraq**
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19. **Integrated geospatial approach for adaptive rainwater harvesting site selection under the impact of climate change**
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20. **Temperature and precipitation change assessment in the North of Iraq using LARS-WG and CMIP6 models**
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21. **The public's attitude toward recycled water: a review**
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23. **Review of Recent Trends in the Hybridisation of Preprocessing-Based and Parameter Optimisation-Based Hybrid Models to Forecast Univariate Streamflow**
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24. **Developing a hybrid model for accurate short-term water demand prediction under extreme weather conditions: a case study in Melbourne, Australia**
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25. **Assessing the potential of hybrid-based metaheuristic algorithms integrated with ANNs for accurate reference evapotranspiration forecasting**
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26. **Application of metaheuristic algorithms and ANN model for univariate water level forecasting**
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27. **A sleep apnea system based on heart rate and SpO2 measurements: Performance validation**
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28. **Water quality index forecast using artificial neural network techniques optimized with different metaheuristic algorithms**
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31. **Indoor localization for the blind based on the fusion of a metaheuristic algorithm with a neural network using energy-efficient WSN**
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32. **Measuring equity in spatial development investments for the provincial development program in Wasit governorate**
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33. **Application of hybrid machine learning models and data pre-processing to predict water level of watersheds: Recent trends and future perspective**
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38. **Tuning ANN hyperparameters by CPSOCGSA, MPA, and SMA for short-term SPI drought forecasting**
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39. **Drought Forecasting: A Review and Assessment of the Hybrid Techniques and Data Pre-Processing**
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40. **A novel methodology to predict monthly municipal water demand based on weather variables scenario**
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41. **Design and Manufacturing of Rainfall**
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42. **A CPSOCGSA-tuned neural processor for forecasting river water salinity: Euphrates river, Iraq**
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43. **Function of nanomaterials in removing heavy metals for water and wastewater remediation: A review**
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44. **Drought Forecasting: A Review and Assessment of the Hybrid Techniques and Data Pre-Processing. Hydrology 2022, 9, 115**
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46. **Evaluation water scarcity based on GIS estimation and climate-change effects: A case study of Thi-Qar Governorate, Iraq**
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47. **Design and manufacturing of rainfall simulator machine for the soil erosion investigation**
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48. **A review of hybrid soft computing and data pre-processing techniques to forecast freshwater quality's parameters: Current trends and future directions**
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49. **Simulating a stochastic signal of urban water demand by a novel combination of data analytic and machine learning techniques**
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50. **Phosphate removal from water using bottom ash: Adsorption performance, coexisting anions and modelling studies**
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51. **Diagnosing of air compressor faults using frequency data driven approach**
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52. **Digital Era Influence on Neighbourhood Planning**
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53. **Numerical modeling of seismic performance of gravity quay wall**
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54. **Updated Moving Forecasting Model of Air Maximum Temperature**
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55. **Seismic Performance of Underground Water Pipelines**
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56. **Factors influencing the transformation of Iraqi holy cities: the case of Al-Najaf**
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58. **Forecasting of Air Maximum Temperature on Monthly Basis Using Singular Spectrum Analysis and Linear Autoregressive Model**
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59. **Effect of Rainfall Intensity on Channel Sediment**
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61. **Analysing the transformed urban patterns of Al-Najaf historical center: Urgent issues and possible solutions**
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62. **Static and seismic performance of buried pipelines: a review**
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63. **Conservation Approach as an Architectural Instrument to reviving Historical Cities; technical analysis for multi international cases**
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64. **Diagnosis of air compressor condition using minimum redundancy maximum relevance (MRMR) algorithm and distance metric based classification**
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67. **Energy efficient electrocoagulation using baffle-plates electrodes for efficient Escherichia coli removal from wastewater**
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69. **Ultrasonic-Electrocoagulation method for nitrate removal from water**
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70. **Treatment of effluents of construction industry using a combined filtration-electrocoagulation method**
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72. **Hybridised artificial neural network model with slime mould algorithm: a novel methodology for prediction of urban stochastic water demand**
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74. **Ultrasonic-electrochemical treatment for effluents of concrete plants Ultrasonic-electrochemical treatment for effluents of concrete plants**
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75. **Removal of Methylene Blue Dye from Aqueous Solution Using Kaolin**
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76. **Accurate Infants Remote Temperature Monitoring System based on Contactless Temperature Sensor and GSM Network**
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77. **Forecasting of monthly stochastic signal of urban water demand: Baghdad as a case study**
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78. **Wireless power transfer based on spiral–spider coils for a wireless heart rate sensor**
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90. **A Novel approach for predicting monthly water demand by combining singular spectrum analysis with neural networks**
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