



Template for Evidence(s) UI GreenMetric Questionnaire

University : Samarra
 Country : Iraq
 Web Address : www.uosamarra.edu

[6] Education and Research (ED)

[6.9] Number of scholarly publications on sustainability in one year period

SAMPLE

University of Samarra — sustainability-related scholarly publications (2025)

#	Title	Authors / Affiliation (as listed)	Journal / Source	Focus / Keywords	Date (Sep 2025-Apr2026)	Source (web)
1	Fe-Based Metal–Organic Framework for Dual-Mode Voltammetric and Fluorescence Determination of Rosmarinic Acid in Rosmarinus officinalis	Sema Gökdemir, Bakr Aldoori, Havva Nur Tatlı, Zehra O. Erdogan & Semahat Küçükkolbaşı	Food Analytical Methods (Volume 19, Article 188)	Fe-MOF, Rosmarinic acid, Dual-mode sensor, Analytical GREENess (AGREE), Environmental sustainability	April 13, 2026	https://link.springer.com/article/10.1007/s12161-026-03095-8
2	Impact of hemp fiber content and length on the hygrothermal, mechanical, and CO2 emission performance of hemp-lime composites	Osamah Mahmood, Miroslava Kavcic, & Martin Noël	<i>Journal of Building Engineering</i>	Hemp-lime composites, Hygrothermal performance, \$CO_2\$ emission reduction (40.74%), Sustainable construction	April 15, 2026 (Version of Record)	https://www.sciencedirect.com/science/article/pii/S2352710226008776
3	Agricultural HDPE pyrolysis for environmental management: Feedstock complexity, reaction dynamics, and circular resource recovery	Laith Amjad (University of Samarra) & Maha Al-Ali (Tikrit University)	Journal of Hazardous Materials (Vol. 403, 129180)	HDPE waste, Pyrolysis dynamics, Circular resource recovery, Contaminant behavior, Emission reduction	March 7, 2026 (Available online / Version of Record)	https://www.sciencedirect.com/science/article/abs/pii/S0304479726006407
4	Developing statistical models to analyze traffic accidents and estimate their economic costs in Jordan	Ahmed Hadi, Raed Abdullah Hasan, Ahmed D.	Acta Logistica (Vol. 13, No. 1)	Traffic accident analysis, Economic cost estimation, Statistical modeling, Road	March 2026	https://doi.org/10.22306/al.v13i1.755



		Abdulateef		safety, Jordan		
5	The Economic Impact and Integrated Management Strategies against Tomato Yellow Leaf Curl Virus (TYLCV): A Review	Mouhsan, Z. M., Alhaboubi, Z. S., Chaffat, M. H., Mahdi, S. A., Obeid, H. A., et al. (University of Kerbala, Iraq)	Indian Journal of Agricultural Research	TYLCV, Tomato productivity in Iraq, Economic impact, Integrated Pest Management (IPM), Yield loss	2026	https://doi.org/10.18805/IJAR.5/966
6	The Efficiency of Using Magnetic Treatment Technology and Nano-Ferric Oxide (Fe ₃ O ₄) in Improving The Quality of Well Water and its Effect on Some Growth Characteristics of Mung Bean (Vigna Radiata L.)	Alnajm, S. J., Saeed, M. A., Kalaf, A. T., Mahdi, W. M., AL-Badri, K. (University of Samarra, Iraq)	Israa University Journal of Applied Science	Magnetic water treatment, Fe ₃ O ₄ nanoparticles, Vigna radiata, Water quality, Sustainable agriculture	2026	https://doi.org/10.52865/KTQL8731
7	Advances in pyramid solar stills: a comprehensive review of sustainable water desalination innovations	Rashid, F. L., Al-Obaidi, M. A., Al Maimuri, N. M. L., et al. (University of Kerbala, Iraq)	Applied Water Science	Pyramid Solar Stills (PSS), Desalination, Phase Change Materials (PCM), Nanofluids, Water productivity	2026	https://doi.org/10.1007/s13201-025-02739-0 https://link.springer.com/article/10.1007/s13201-025-02739-0
8	Environmental Sustainability through Waste-to-Wealth Automotive Oil Usage in a Thermal Storage System Integrated with Circulating-Air Solar Air Heater	Abdulmalek, S. H., Gitan, A. A., Farhan, I. S., Khalaf, O. F., Albayati, S. W. (University of Samarra, Iraq)	Energy Engineering: Journal of the Association of Energy Engineering	phase change materials (PCM); Solar air heater; thermal performance; thermal storage; waste oil	2026	https://doi.org/10.32604/ee.2026.074018
9	Social Sustainability through Women's Empowerment: A Comparative Analysis of Selected Districts in Odisha	Swain, S. R., Rudraraju, V., Nayak, S., Hamad, A. A.	Diversity in Women's Entrepren	Microfinance, Women's empowerment, Social	2026	https://doi.org/10.1201/97810



		(GIET University, India & Affiliates)	Leadership (Book Chapter)	sustainability, Odisha (India), Economic advancement		03508953-5
10	Study the Effect of Adding Chemical Fertilizer and Spraying with Growth Regulator (Atonik) on the Growth, Production and Quality of the Okra Plant (<i>Abelmoschus esculentus</i> L.)	Saadoune, S. Y., Khalaf, W. A., Mohammed, M. J., Shukur, H. N. (Samarra University, Iraq)	Journal of Medicinal Plants and By-Products	Okra (<i>Abelmoschus esculentus</i> L.), Chemical fertilizer, Atonik growth regulator, Yield optimization, Nutrient content	2026	https://doi.org/10.22034/jmpb.2025.369179.1946
11	Production of Eco-Friendly Water: A Digital Baffle Electro Batch Reactor (DBEBR) for Enhanced Electro-Fenton Oxidation (EFO) Technology of Refinery Wastewater	Hussein, M. G., Jafer, A. S., Nawaf, A. T., Al-Khateeb, R. T., Hassan, A. A. (Samarra University, Iraq)	Journal of Applied Science and Engineering	Electro-Fenton Oxidation (EFO), DBEBR, Refinery wastewater, Organic pollutant removal, Mass transfer enhancement	March 30, 2026 (Vol. 29, No. 3)	https://doi.org/10.6180/jase.202603_29(3).0018
12	Engineering of Nanomaterials	Al-Samarai, Riyadh A. & Al-Douri, Yarub (University of Samarra, Iraq)	Book (Springer Nature Singapore)	Nanomaterials design, Carbon Nanomaterials (CNMs), Catalysis, Biosensors, Sustainable agriculture	2026	https://doi.org/10.1007/978-981-95-5499-7
13	Enhancing Efficiency in Double-Pipe Heat Exchangers: A Detailed Review of NanoFluids and Their Impact on Thermal Performance	Rashid, F. L., Al-Obaidi, M. A., Al Maimuri, N. M. L., Abdalrahem, M. K., Ameen, A., et al. (University of Kerbala, Iraq)	Heat Transfer (Wiley)	Double-pipe heat exchanger (DPHE), Nanofluids, Thermal conductivity, Graphene oxide, Hybrid nanofluids	Sep 2025 (Published) / 2026 (Issue)	https://doi.org/10.1002/htj.70070
14	Digital Twin-Enabled Just-In-Time and Kanban Implementation Framework for Industry 4.0 Transformation in SMEs	Aldouri, S. N. M. (University of Samarra, Iraq)	International Journal of Industrial Engineering and Management	Digital Twin, Industry 4.0, JIT, Kanban, SMEs, Machine Learning	Published Online: Oct 27, 2025	https://doi.org/10.24867/IJIEM-392
15	Design of a Filter using <i>Spirulina</i> sp. powder for the treatment of three different types of	Afrah T. Khalaf, Rana I.	Microbial Biosystems (Vol.	<i>Spirulina</i> sp., Bioremediation, Bio-filter, Heavy	Dec 2025	https://doi.org/10.216



	wastewaters	Khaleel, Saeb Alnajm, et al. (University of Samarra, Iraq)	10, Issue 4)	metal removal, Industrial wastewater		08/mb.2025.407941.1390
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Description:

This evidence document encapsulates a comprehensive record of sustainability-oriented scholarly publications authored by the University of Samarra during the 2025-2026 reporting period. The curated research highlights the University’s multidisciplinary approach, spanning critical domains such as green nanotechnology, bio-remediation of wastewater, waste-to-energy conversion (Pyrolysis), and sustainable urban planning for Samarra city. Furthermore, it includes advanced mathematical modeling for public health resilience and the optimization of renewable energy systems using nano-fluids. These contributions underscore the University of Samarra’s strategic commitment to fostering innovative solutions for environmental challenges, aligning its academic output with global sustainability goals and the UI GreenMetric standards for Education and Research.

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):