Curriculum Vitae

Name: Abdelbaset Sabry Mohamed Mohamed El-Sorogy

Title: Professor of Marine and Environmental Geology

Department of Geology and Geophysics, College of Science, King Saud University, Saudi Arabia

Tel: +966540325046 | E-mail: asmohamed@ksu.edu.sa | elsorogyabd@yahoo.com

Date of Birth: 26 February 1965

Professional Summary

Experienced Professor of Paleontology and Environmental Geology with extensive research in marine pollution, sedimentology, stratigraphy, and micropaleontology. Over 35 years of academic and research experience at leading universities in Egypt, Saudi Arabia, and Yemen. Recognized among the top 2% of most cited scientists globally. Expert in environmental assessment, sequence stratigraphy, and GIS-based analysis of geological and environmental systems.

Research Interests

• Paleontology and Paleoecology

• Environmental Geology and Marine Pollution

• Sedimentology and Stratigraphy

• GIS and Remote Sensing in Environmental Studies

• Sequence Stratigraphy and Coastal Geomorphology

Education

Ph.D., Paleontology and Paleoecology, Zagazig University, 1994

M.Sc., Paleontology and Paleoecology, Zagazig University, 1990

B.Sc., Special Geology, Zagazig University, 1986

Professional Experience

Professor, Geology and Geophysics Department, College of Science, King Saud University (2012–Present)

Vice Dean, Faculty of Science for Environmental Affairs, Zagazig University (2010–2012)

Visiting Professor, University of Dhamar, Yemen (2005)

Assistant Professor, Geology Department, Zagazig University (1999–2004)

Lecturer, Geology Department, Zagazig University (1994–1999)

Assistant Lecturer, Geology Department, Zagazig University (1990–1994)

Demonstrator, Geology Department, Zagazig University (1986–1990)

Teaching Experience

Taught undergraduate and graduate courses in Geology of Egypt, Invertebrate Paleontology, Vertebrate Paleontology, Environmental Geology, Historical Geology, Micropaleontology, Paleoecology, Physical Geology, Stratigraphy and Sedimentation, and Advanced Stratigraphy at Zagazig University, Dhamar University, and King Saud University.

Books and Translations

Authored and translated numerous academic books in both Arabic and English, including:

- Biology and Geology of Coral Reefs (2019)
- Invertebrate Paleontology (2015, English)
- Micropaleontology (2015, English)
- Environment and Earth Sciences: An Introduction to Environmental Geology (2003)
- Translated: Marine Pollution – What Everyone Needs to Know (Oxford University Press)
- Translated: Principles of Sedimentology and Stratigraphy (Pearson, 2018)
- Translated: Introduction to Medical Geology (Springer, 2015)
- Translated: Anthropogenic Pollution of Aquatic Ecosystems (Springer, 2025, in press)

Research Supervision

Supervised more than 20 master's and doctoral theses at Zagazig University, Dhamar University, and King Saud University in areas including faunal analysis, sediment contamination, sequence stratigraphy, and facies analysis in Egypt and Saudi Arabia.

Research Projects / Grants

PI – Quaternary climatic changes and potential for human settlement of the Red Sea coast, Saudi Arabia (Code: 14-ENV183-02).

PI – Environmental impact assessment of Tarut Island coast, Arabian Gulf, Saudi Arabia (Code: 12-ENV2805-02).

PI – Coral reefs and monitoring of environmental pollution, Zagazig University (2009–2010).

Co-PI – Benthic foraminifera as bioindicators of anthropogenic pollution, eastern Red Sea Coast (Code: 14-ENV138-02).

Member – Geo-environmental studies and mapping of the Red Sea coast, supported by UNESCO and national research councils.

Awards and Honors

Top 2% of most cited scientists globally (Stanford University ranking, 2022–2024)

State Encouragement Award in Environmental Geology (2004)

Zagazig University Encouragement Award in Basic Science (2003)

Memberships in Scientific Associations

Geological Society of Egypt

Egyptian Society of Sedimentology

Egyptian Society of Paleontology

National Centre for Faculty and Leadership Development (NCFLD)

List of Publications

1. Alarifi SS, El-Sorogy AS, Al-Kahtany K, Alharbi T, Alhejji SSS, de Larriva JEM and Shokr MS (2026) Exploring soil heavy metal(loid) levels in Huraymla, Saudi Arabia: implications for sustainable agriculture and food supply. *Front. Sustain. Food Syst.* 9:1726872. doi: 10.3389/fsufs.2025.1726872
2. **El-Sorogy AS**, Alharbi T, Almadani SA, Shoaib S, Rikan N, Meroño de Larriva JE and Shokr MS (2025) An integrated GIS–statistical approach to assess soil contamination in Al-Muzahmiya, Saudi Arabia: implications for food security. Front. Sustain. Food Syst. 9:1695962.doi: 10.3389/fsufs.2025.1695962
3. Youssef, M., **El-Sorogy, A.S.**, AlOtaibi, S., de Larriva, j.E.M., Shokr, M.S., Al-Kahtany, Kh., Deciphering spatial patterns of potential toxic elements using GIS and multivariate statistics for sustainable development in some areas of MENA region. Toxicology Research, 2025, 14, (166). https://doi.org/10.1093/toxres/tfaf166
4. **El-Sorogy, A.S.**, Demircan, H., Al-Kahtany, Kh., Zumlot, T., Alharbi, T., Tawfik, M. (2025). Bioerosion and encrustation as paleoenvironmental indicators in Upper Cretaceous corals, Aruma Formation, Saudi Arabia. Turkish J Earth Sci (2025) 34: https://doi.org/doi:TJES-2025-00056R2
5. Al-Awah, H., Radwan, Ahmed E., **El-Sorogy, A.S.** Integrated risk assessment of heavy metals in marine sediments from Salwa Bay, Qatar using pollution indices and multivariate analysis. Marine Pollution Bulletin 222 (2026) 118903. https://doi.org/10.1016/j.marpolbul.2025.118903
6. Al-Hashim, M.H., Nour, H.E., Yakubu, M.A., Alharbi, T., **El-Sorogy, A.S.,** Integrated assessment of ecological and human health risks associated with potentially toxic elements in coastal sediments from the Western Arabian Gulf. Environ Monit Assess (2025) 197:1233. https://doi.org/10.1007/s10661-025-14717-9
7. **El–Sorogy, A. S.**, Demircan, H., Moussa, M., Al-Kahtany, K., Alharbi, T., & Tawfik, M. (2025). Ichnofossil insights into the Middle-Upper Ordovician Qasim Formation: implications for lithostratigraphy and paleoenvironmental interpretation in Saudi Arabia. Historical Biology, 1–19. https://doi.org/10.1080/08912963.2025.2545345
8. Alharbi, T.; **El-Sorogy, A.S.**; Alhejji, S.S.; Rikan, N. Spatial Variability and Health Implications of Heavy Metals in Wadi Al-Hamd's Groundwater: A Multivariate and Risk-Based Approach. Water 2025, 17, 2549. https://doi.org/10.3390/w17172549
9. **El-Sorogy, A.S.**, Demircan, H., Zumlot, T., Al-Kahtany, Kh., Tawfik, M., Bioerosion traces on late cretaceous invertebrate skeletons from the Aruma Formation, central Saudi Arabia: Stratigraphic and paleoecological significance. Journal of African Earth Sciences 232 (2025) 105815. https://doi.org/10.1016/j.jafrearsci.2025.105815
10. Alharbi, T.; **El-Sorogy, A.S.**; Rikan, N. A GIS and Multivariate Analysis Approach for Mapping Heavy Metals and Metalloids Contamination in Landfills: A Case Study from Al-Kharj, Saudi Arabia. Land 2025, 14, 1697. https://doi.org/10.3390/land14081697
11. **El-Sorogy AS**, Al-Kahtany K, Shokr MS, Alharbi T, de Larriva JEM (2025) On evaluating the possible hazard of soil contamination in arid regions using statistical analysis and GIS techniques. *Front. Earth Sci.* 13:1605796. https://doi.org/10.3389/feart.2025.1605796
12. Alharbi, T.; **El-Sorogy, A.S.**; Rikan, N. Landslide Prediction in Mountainous Terrain Using Weighted Overlay Analysis Method: A Case Study of Al Figrah Road, Al-Madinah Al-Munawarah, Western Saudi Arabia. Sustainability 2025, 17, 6914. https://doi.org/10.3390/su17156914
13. Alharbi, T.; **El-Sorogy, A.S.**; Rikan, N.; Algarni, H.M. Impact of Landfill Sites on Coastal Contamination Using GIS and Multivariate Analysis: A Case from Al-Qunfudhah inWestern Saudi Arabia. Minerals 2025, 15, 802. https://doi.org/10.3390/min15080802
14. **El-Sorogy, A.S.**, Nour, H.E., Al-Kahtany, K., Youssef, M., Alharbi, T., Yakubu, M.A. 2025. Potential health and ecological risk assessment of selected heavy metals in Dammam coastal sediments, Arabian Gulf. Regional Studies in Marine Science 89, 104354. https://doi.org/10.1016/j.rsma.2025.104354
15. **El-Sorogy, A.S.**, Nour, H.E., Al-Kahtany, Kh., Youssef, M., Alharbi, T., Giacobbe, S., 2025. Environmental health risk assessment of Zn, Cd, Pb, Fe, and Co in coastal sediments of the southeastern Gulf of Aqaba. Open Geosciences 2025; 17: 20250807. https://doi.org/10.1515/geo-2025-0807
16. Alharbi, T., **El-Sorogy, A.S.**, Al-Kahtany, Kh., Al-Hashim, M., 2025. Source of contamination and assessment of potential health risks of potentially toxic metal (loid)s in agricultural soil from Al Lith, Saudi Arabia. Open Geosciences; 17: 20250782. https://doi.org/10.1515/geo-2025-0782
17. Mustafa, A.-r.A.; Shokr, M.S.; Alharbi, T.; Abdelsamie, E.A.; **El-Sorogy, A.S.**; Meroño de Larriva, J.E. Integration of Google Earth Engine and Aggregated Air Quality Index for Monitoring and Mapping the

Spatio-Temporal of Air Quality to Improve Environmental Sustainability in Arid Regions. Sustainability 2025, 17, 3450. https://doi.org/10.3390/su17083450
18. Talat, A.E.;Wang, J.; **El-Sorogy, A.S.** Impact of Soil Compaction on Pore Characteristics and Hydraulic Properties by Using X-Ray CT and SoilWater Retention Curve in China's Loess Plateau. Water 2025, 17, 1144. https://doi.org/10.3390/w17081144
19. Alharbi, T., Nour, H.E., **El-Sorogy, A.S.**, Al-Kahtany, Kh., Giacobbe, S., Alarifi, S.S., 2025. Evaluation of health risks and heavy metals toxicity in agricultural soils in Central Saudi Arabia. Environ Monit Assess 197:419. https://doi.org/10.1007/s10661-025-13897-8
20. Alharbi, T.; **El-Sorogy, A.S.**; Al-Kahtany, K.; Rikan, N.; Salem, Y. Mapping Groundwater Potential in Arid Regions: A Geographic Information System and Remote Sensing Approach for Sustainable Resource Management in Khamis Mushayt, Saudi Arabia. Water 2025, 17,782. https://doi.org/10.3390/w17060782
21. Alzahrani, H.; **El-Sorogy, A.S.**; Alghamdi, A.G.; Alasmary, Z.; Albugami, T.M.R. A Multivariate and Geographic-Information-System Approach to Assess Environmental and Health Hazards of Fe, Cr, Zn, Cu, and Pb in Agricultural Soils of Western Saudi Arabia. Sustainability 2025, 17, 1610. https://doi.org/10.3390/su17041610
22. Kahal, A.Y.; **El-Sorogy, A.S.**; Meroño de Larriva, J.E.; Shokr, M.S. Mapping Soil Contamination in Arid Regions: A GIS and Multivariate Analysis Approach. Minerals 2025, 15, 124. https://doi.org/10.3390/min15020124
23. **El-Sorogy, A.S.**; Al-Kahtany, K.; Alharbi, T.; Al Hawas, R.; Rikan, N. Geographic Information System and Multivariate Analysis Approach for Mapping Soil Contamination and Environmental Risk Assessment in Arid Regions. Land 2025, 14, 221. https://doi.org/10.3390/land14020221
24. Abdelsamie, E.A.; Mustafa, A.-r.A.; **El-Sorogy, A.S.**; Maswada, H.F.; Almadani, S.A.; Shokr, M.S.; El-Desoky, A.I.; Meroño de Larriva, J.E. Current and Potential Land Use/Land Cover (LULC) Scenarios in Dry Lands Using a CA-Markov Simulation Model and the Classification and Regression Tree (CART) Method: A Cloud-Based Google Earth Engine (GEE) Approach. Sustainability 2024, 16, 11130. https://doi.org/10.3390/su162411130
25. Shokr, M.S.; Mustafa, A.-r.A.; Alharbi, T.; Meroño de Larriva, J.E.; **El-Sorogy, A.S.**; Al-Kahtany, K.; Abdelsamie, E.A. Integration of VIS–NIR Spectroscopy and Multivariate Technique for Soils Discrimination Under Different Land Management. Land 2024, 13, 2056. https://doi.org/10.3390/land13122056
26. **El-Sorogy, A.S.**; Alharbi, T.; Al-Kahtany, K.; Rikan, N.; Salem, Y. Identification and Validation of Groundwater Potential Zones in Al-Madinah Al-Munawarah, Western Saudi Arabia Using Remote Sensing and GIS Techniques. Water 2024, 16, 3421. https://doi.org/10.3390/w16233421
27. Alharbi, T.; **El-Sorogy, A.S.**; Al-Katany, K.; Alhejji, S.S.S. Ecological Health Hazards and Multivariate Assessment of Contamination Sources of Potentially Toxic Elements from Al-Lith Coastal Sediments, Saudi Arabia. Minerals 2024, 14, 1150. https://doi.org/10.3390/min14111150
28. Alharbi, T.; **El-Sorogy, A.S.**; Rikan, N.; Salem, Y. Geographic Information System and Contamination Indices for Environmental Risk Assessment of Landfill Disposal Sites in Central Saudi Arabia. Sustainability 2024, 16,9822. https://doi.org/10.3390/su16229822
29. **El-Sorogy, A.S.**, Al-kahtany, Kh., Alharbi, T., Alarifi, S.S., 2024. Distribution patterns, health hazards, and multivariate assessment of contamination sources of As, Pb, Ni, Zn, and Fe in agricultural soils. Journal of King Saud University - Science xxx (xxxx) 103489. https://doi.org/10.1016/j.jksus.2024.103489
30. Alzahrani, H.; **El-Sorogy, A.S.**; Okok, A.; Shokr, M.S. 2024. GIS- and Multivariate-Based Approaches for Assessing Potential Environmental Hazards in Some Areas of Southwestern Saudi Arabia. Toxics 12, 569. https://doi.org/10.3390/toxics12080569.
31. Alharbi, T., Nour, H.E., Al-Kahtany, Kh., Zumlot, T., **El-Sorogy, A.S.** 2024. Health risk assessment and contamination of lead and cadmium levels in sediments of the northwestern Arabian Gulf coast. Heliyon 10 (2024) e36447. https://doi.org/10.1016/j.heliyon.2024.e36447.
32. Di Bella, G., **El-Sorogy, A.S.**, Giacobbe, S. et al. Risk assessment of potentially toxic elements in intermittent rivers, "fiumara", flowing in the Gulf of Milazzo (Sicily, Italy). Environ Earth Sci 83, 321 (2024). https://doi.org/10.1007/s12665-024-11631-0

33. Youssef, M., Al Otaibi, S., **El-Sorogy, A.S.** 2024. Distribution, Source, and Contamination of Heavy Metals in Coastal Sediments of Jeddah, Red Sea, Saudi Arabia. Bulletin of Environmental Contamination and Toxicology (2024) 113:12. https://doi.org/10.1007/s00128-024-03923-9
34. Alharbi, T.; **El-Sorogy, A.S.**; Al-Kahtany, K. Distribution and Comprehensive Risk Evaluation of Cr, Cd, Fe, Zn, and Pb from Al Lith Coastal Seawater, Saudi Arabia. Water 2024, 16, 1923. https://doi.org/10.3390/w16131923
35. **El-Sorogy, A.S.**, Tawfik, M., Almadani, S., Zumlot, T. 2024. Evaluation of sediment quality for heavy metal(loid)s contamination and health risk assessment in the Gulf of Suez, Egypt. Marine Pollution Bulletin 203, 116496. https://doi.org/10.1016/j.marpolbul.2024.116496
36. Alharbi, T., **El-Sorogy, A.S.**, 2024. Groundwater quality and health risk assessment of nitrate and fluoride in Al Qaseem area, Saudi Arabia. Open Chemistry 22: 20240042. https://doi.org/10.1515/chem-2024-0042.
37. **El-Sorogy, A.S.**, Al-Hashim, M.H., Richiano, S., Alharbi, T., Wadani, M., Ait-Itto, F-Z., 2024. Bioerosion and encrustation signatures on *Crassostrea gryphoides* (vonSchlotheim) from the Miocene Raghama Formation, northwest Saudi Arabia: description and paleoenvironmental implications. PalZ, https://doi.org/10.1007/s12542-024-00689-7
38. Al-Kahtany, Kh, Al-Hashim, M.H., **El-Sorogy, A.S.** 2024. Heavy metal(loid)s contamination and ecological-health risk assessment of coastal sediment from Salwa Bay, Saudi Arabia. Arabian Journal of Chemistry 17, 105868. https://doi.org/10.1016/j.arabjc.2024.105868
39. El Safori, Y., **El–Sorogy, A.S.**, Youssef, M., 2024. Encrusting bryozoans on molluscan shells collected intertidally from the Arabian Gulf, Saudi Arabia. Regional Studies in Marine Science 76, 103575. https://doi.org/10.1016/j.rsma.2024.103575.
40. **El-Sorogy, A.S.**, Al Khathlan, M.H., 2024. Assessment of potentially toxic elements and health risks of agricultural soil in Southwest Riyadh, Saudi Arabia. Open Chemistry 22: 20240017. https://doi.org/10.1515/chem-2024-0017
41. **El-Sorogy A.S.**, Al-Kahtany, Kh., Al-Hashim, M.H., Alharbi, T., 2024. Distribution and contamination of seashells in Salwa Bay, Saudi Arabia. Journal of African Earth Sciences 211, 105186. https://doi.org/10.1016/j.jafrearsci.2024.105186.
42. Ibrahim E, Abdelrahman K, Alharbi T, **El-Sorogy AS** (2024) Delineation of seawater intrusion in the Yanbu industrial area, northwest Saudi Arabia, using geoelectric resistivity sounding survey. Journal of King Saud University - Science 36, 103110. https://doi.org/10.1016/j.jksus.2024.103110
43. Al-Kahtany, Kh., El-Sorogy, A.S., Alharbi, T., Ecological risk assessment and potential source of As, Cd, Co, and Ni in Al Qunfudhah seawater, Red Sea coast, Saudi Arabia. Journal of King Saud University - Science 36 (2024) 103560. https://doi.org/10.1016/j.jksus.2024.103560
44. Alharbi, T., **El-Sorogy, A.S.**, Al-Kahtany, Kh., 2024. Contamination and health risk assessment of potentially toxic elements in agricultural soil of the Al-Ahsa Oasis, Saudi Arabia using health indices and GIS. Arabian Journal of Chemistry. 17 105592. https://doi.org/10.1016/j.arabjc.2023.105592.
45. **El-Sorogy, A.S.**, Alzahrani, H., 2024. Bioerosion and encrustation of the rocky shore dwellers along the Arabian Gulf, Northeast Saudi Arabia. Journal of King Saud University - Science 36,103062. https://doi.org/10.1016/j.jksus.2023.103062
46. **El-Sorogy, A.S.**, Al-Hashim, M.H., Almadani, S.A., Giacobbe, S., Nour, H.E., 2024. Potential contamination and health risk assessment of heavy metals in Hurghada coastal sediments, Northwestern Red Sea. Marine Pollution Bulletin 198, 115924. https://doi.org/10.1016/j.marpolbul.2023.115924
47. Kahal, A.Y.; **El-Sorogy, A.S.**; Qaysi, S.I.; Al-Hashim, M.H.; Al-Dossari, A. Environmental Risk Assessment and Sources of Potentially Toxic Elements in Seawater of Jazan Coastal Area, Saudi Arabia. Water 2023, 15, 3174. https://doi.org/10.3390/w15183174
48. Alzahrani, H., **El-Sorogy, A.S.**, Qaysi, S., 2023. Assessment of human health risks of toxic elements in coastal area between Al-Khafji and Al-Jubail, Saudi Arabia. Marine Pollution Bulletin 196, 115622. https://doi.org/10.1016/j.marpolbul.2023.115622
49. Alharbi, T., Nour, H., Al-Kahtany, Kh. Giacobbe, S., **El-Sorogy, A.S.**, 2023. Sediment's quality and health risk assessment of heavy metals in the Al-Khafji area of the Arabian Gulf, Saudi Arabia. Environmental Earth Sciences 82:471. https://doi.org/10.1007/s12665-023-11171-z.

50. Alarifi, S.S., **El-Sorogy, A.S.**, Al-kahtany, Kh., Hazaea, S.A., 2023. Contamination and health risk assessment of potentially toxic elements in Al-Ammariah agricultural soil, Saudi Arabia. Journal of King Saud University – Science 35, 102826. https://doi.org/10.1016/j.jksus.2023.102826
51. Nabhan, N., Widinly, N., Memesh, A., Khorsheed, M., **El-Sorogy, A.S.**, Tawfik, M., 2023. Sedimentological and Geomorphological Characteristics of Jabal Kudumbul Island, Southeast Red Sea, Saudi Arabia. Journal of Coastal Research. 39(6): 1114-1123. https://doi.org/10.2112/JCOASTRES-D-22-00129.1
52. Alharbi, T., Abdelrahman, K., **El-Sorogy, A.S.**, Ibrahim, E., 2023. Contamination and health risk assessment of groundwater along the Red Sea coast, Northwest Saudi Arabia. Marine Pollution Bulletin 192, 115080. https://doi.org/10.1016/j.marpolbul.2023.115080.
53. Al-Kahtany, Kh., Nour, H.E., **El-Sorogy, A.S.**, Alharbi, T., 2023. Ecological and health risk assessment of heavy metals contamination in mangrove sediments, Red Sea coast. Marine Pollution Bulletin 192, 115000. https://doi.org/10.1016/j.marpolbul.2023.115000
54. Al-Hashim, M., **El-Sorogy, A.S.**, Wadani, M., 2023. Facies development and sedimentology of the Middle Miocene carbonates of the Raghama Formaion, northeastern Saudi Arabia. Acta Geochim. https://doi.org/10.1007/s11631-023-00643-5
55. Demircan, H., **El-Sorogy, A.S.**, Al-Hashim, M., Richiano, S., 2023.Taphonomic signatures on the pearl oyster Pinctada from Arabian Gulf, Saudi Arabia. Journal of King Saud University – Science 35, 102870. https://doi.org/10.1016/j.jksus.2023.102870
56. Alharbi T, **El-Sorogy, A.S.** (2023) Quality and groundwater contamination of Wadi Hanifa, central Saudi Arabia. Environ Monit Assess, 195:525. https://doi.org/10.1007/s10661-023-11093-0.
57. **El-Sorogy, A.S.**; Youssef, M.; Al-Hashim, M.H. (2023) Water Quality Assessment and Environmental Impact of Heavy Metals in the Red Sea Coastal Seawater of Yanbu, Saudi Arabia. Water 15, 201. https://doi.org/10.3390/w15010201
58. Alharbi T, Abdelrahman K, **El-Sorogy AS** and Ibrahim E (2023), Identification of groundwater potential zones in the Rabigh-Yanbu area on the western coast of Saudi Arabia using remote sensing (RS) and geographic information system (GIS). Front. Earth Sci. 11:1131200. doi:10.3389/feart.2023.1131200
59. Alshehri, F., **El-Sorogy, A.S.**, Almadani, S., Aldossari, M. (2023) Groundwater quality assessment in western Saudi Arabia using GIS and multivariate analysis. Journal of King Saud University – Science 35, 102586. https://doi.org/10.1016/j.jksus.2023.102586
60. Tawfik, M., **El-Sorogy, A.S.**, Al-Kahtany, Kh. (2023) Facies Associations and Sequence Stratigraphy of the Toarcian Marrat Formation (Saudi Arabia) and Their Equivalents in Some Gondwanaland Regions. https://doi.org/10.1007/s12583-020-1379-6
61. Alharbi, T.; **El-Sorogy, A.S.** (2023) Risk Assessment of Potentially Toxic Elements in Agricultural Soils of Al-Ahsa Oasis, Saudi Arabia. Sustainability 15, 659. https://doi.org/10.3390/su15010659
62. Alharbi, T.; **El-Sorogy, A.S.** Landslide Prediction in Mountainous Terrain Using Remote Sensing and GIS: A Case Study of Al-Hada Road, Makkah Province, Saudi Arabia. Water 2023, 15, 3771. https://doi.org/10.3390/w15213771
63. Alzahrani, H., **El-Sorogy, A.S.**, Qaysi, S., Alshehri, F. (2023) Contamination and Risk Assessment of Potentially Toxic Elements in Coastal Sediments of the Area between Al-Jubail and Al-Khafji, Arabian Gulf, Saudi Arabia. Water 15, 573. https://doi.org/10.3390/w15030573.
64. Alzahrani, Y., Alshehri, F., **El-Sorogy, A.S.**, Alzahrani, H. (2023) Environmental assessment of heavy metals in soils around Al-Janabeen Dam, southwest Saudi Arabia. Journal of King Saud University – Science 35, 102503. https://doi.org/10.1016/j.jksus.2022.102503
65. Al-Kahtany, Kh., Nour, H.E., Giacobbe, S., Alharbi, T., **El-Sorog, A.S.** (2023) Heavy metal pollution in surface sediments and human health assessment in southern Al-Khobar coast, Saudi Arabia. Marine Pollution Bulletin 187, 114508. https://doi.org/10.1016/j.marpolbul.2022.114508.
66. Al-Kahtany, Kh., **El-Sorogy, A.S.**, Alharbi, T., Giacobbe, S., Nour, H.E., (2023) Health risk assessment and contamination of potentially toxic elements in southwest of the Red Sea coastal sediment. Regional Studies in Marine Science 65, 103103. https://doi.org/10.1016/j.rsma.2023.103103
67. Al-Kahtany, Kh., **El-Sorogy, A.S.** (2023) Contamination and health risk assessment of surface sediments along Ras Abu Ali Island, Saudi Arabia. Journal of King Saud University – Science 35, 102509. https://doi.org/10.1016/j.jksus.2022.102509

68. Al-Kahtany, Kh., Youssef, M., **El-Sorogy, A.S.** (2023). Benthic foraminifera as bioindicators of anthropogenic Pollution in the Red Sea Coast, Saudi Arabia, Journal of King Saud University - Science, doi: https://doi.org/10.1016/j.jksus.2022.102383
69. Alharbi, T.; **El-Sorogy, A.S.** Health Risk Assessment of Nitrate and Fluoride in the Groundwater of Central Saudi Arabia. Water 2023, 15, 2220. https://doi.org/10.3390/w15122220
70. Al-Hashim, M.H.; **El-Sorogy, A.S.**; Alshehri, F.; Qaisi, S. (2022) Environmental Assessment of Surface Seawater in Al-Uqair Coastline, Eastern Saudi Arabia. Water 2022, 14, 3423. Water 2022, 14, 3423. https://doi.org/10.3390/w14213423
71. Al-Kahtany, Kh., **El-Sorogy, A.S.** (2022) Heavy metal contamination of surface seawaters in Abu Ali Island, Saudi Arabia. Arabian Journal of Geosciences 15, 1662. https://doi.org/10.1007/s12517-022-10949-y
72. Alharbi, T., Al-Kahtany, Kh., Nour, Hamdy, H.E., Giacobbe, S., **El-Sorogy, A.S.** 2022. Contamination and health risk assessment of arsenic and chromium in coastal sediments of Al-Khobar area, Arabian Gulf, Saudi Arabia. Marine Pollution Bulletin 185, 114255. https://doi.org/10.1016/j.marpolbul.2022.114255.
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