

Rima J. Isaifan

Named among 2% of top researchers in the world since 2021

Associate Professor/Cambridge Corporate University-Switzerland & Georgetown University Qatar

Senior Academic Accreditation Expert/Ministry of Education & Higher Education

Certified Business Continuity & Risk Management Expert (ISO 22301 & ISO 31000)

Ph.D. with highest honor in Chemical Engineering/ University of Ottawa-Canada



Contact

Doha/Qatar

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Nationality: Canadian & Jordanian

Languages

English: Fluent

Arabic: Fluent

French: Fair

Researcher IDs

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EU Commission Expert ID:

EX2021D404592

Google Scholar ID:

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Web of Science ID:

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Research Gate:

<https://www.researchgate.net/profile/Rima-Isaifan>

Education & Certification

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|------|---|---|
| 2024 | Certified Carbon Management Leader | Chartered Institute of Professional Certifications |
| 2024 | Certified in Data Science and Visualization | Harvard University |
| 2024 | Certified Diploma in Outcome Based Education and Academic Quality Assurance (CPD Approved) | Alison Academy |
| 2023 | Certified Risk Management FMEA ISO 31000 Expert | Six Sigma Academy Amsterdam |
| 2023 | Certificate in ISO 22301:2019 – Business Continuity Management | Exoexcellence Training Resources |
| 2020 | Certificate in The Health Effects of Climate Change | Harvard University |
| 2020 | Social and Behavioral Research Ethics | Collaborative Institutional Training Initiative |
| 2018 | Certificate in Specialized Module on Human Health and Climate Change | The United Nations Institute for Training and Research (UNITAR) and The World Health Organization (WHO) |
| 2018 | Certificate in Integrated Planning for Climate Change and Biodiversity | The United Nations Institute for Training and Research (UNITAR) and The United Nations Habitat for a Better Urban Future |
| 2017 | Certificate in Specialized Module on Cities and Climate Change | The United Nations Institute for Training and Research (UNITAR) and The United Nations Habitat for a Better Urban Future. |
| 2017 | Certificate in Climate Change Policy, Finance, Adaptation, Mitigation, and Planning | The United Nations Institute for Training and Research (UNITAR) |
| 2017 | Certificate in Air Quality for Environmental and Risk Assessment Studies | Texas A&M University, Doha-Qatar |
| 2016 | Certified in The Implementation of Environmental Management System ISO 14001 | The Chartered Institution of Water and Environmental Management, London, UK |
| 2014 | Ph.D. with the highest honor in Chemical Engineering, GPA =10/10 | University of Ottawa, Ottawa-Canada |
| 2011 | M.Sc. with a fast track to Ph.D. in Chemical Engineering program (not an independent earned degree), GPA= 9.75/10 | University of Ottawa, Ottawa-Canada |
| 1999 | B.Sc. in Chemical Engineering GPA= 3.26/4, ranking the second out of all graduates | University of Jordan, Amman-Jordan |

Professional Experience

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|---------------|---|---|
| 2024-Present | Senior Academic Accreditation Expert | Ministry of Education & Higher Education, Doha, Qatar |
| 2024- Present | Adjunct Associate Professor | Georgetown University, Doha, Qatar |
| 2021-Present | Associate Professor at the Department of Environmental Sciences, & Associate Professor of Academic Writing | Cambridge Corporate University, Lucerne, Switzerland |
| 2024- Present | Expert & Consultant in Energy & Environment Sustainability, Carbon Management, Smart Cities, Renewable Energy Applications, Nanotechnology & Material Sciences | Le Cheval Consultancy, Qatar |

2015 – 2024 *Associate Professor, Scientist, and Head of Academic & Journals Publishing*

Hamad Bin Khalifa University, Qatar Foundation, Qatar

Nanotechnology & Material Science. Energy & Environment Sustainability, Air Quality & Climate Change,
Chemical Engineering

2016 – present *Grant Reviewer, Evaluator & Judge*

European Commission, Qatar National Research Fund, European Association of Research, Gulf Sustainability Awards, Poland National Science Center

2014 – 2015 *Fellow Researcher*

Center for Catalysis Research and Innovation, University of Ottawa, Canada

2010 – 2014 *Research and Teaching Assistant*

Chemical & Biological Engineering Department, University of Ottawa, Canada

2008 – 2010 *Acting General Manager*

Abraj International Company, Doha-Qatar

2003 – 2008 *Planning Engineer*

Qatar General Electricity & Water Corporation, Ministry of Energy, Doha-Qatar

1999 – 2002 *Chemical Engineer & Teacher*

Organic Geochemistry & Chemistry Labs, Ministry of Energy & Sara International Center- Jordan

Teaching Experience

- Certified from the University of Ottawa Professional knowledge in **Practical Pedagogy for Graduate & Undergraduate Teaching & Evaluation** (33 credit hours).
- Main Instructor and or TA for the following courses at **uOttawa and Hamad Bin Khalifa University** since 2010:
 - ✓ Advanced catalysis
 - ✓ Air Quality & Climate Change
 - ✓ Renewable and green energy
 - ✓ Research & Academic Writing
 - ✓ Green Plantations for a sustainable environment & air pollution control
 - ✓ Reaction and phase equilibrium
 - ✓ Nanotechnology
 - ✓ Elemental composition of particulate matter
 - ✓ Catalysis Technology
 - ✓ Aqueous engineering
 - ✓ Anti-dust coating for Solar Panels
 - ✓ Global oil & gas management
 - ✓ Thermal conversion processes for energy production
 - ✓ Electrochemistry
 - ✓ Transport phenomena
 - ✓ Fluid mechanics
 - ✓ Fuel cell technology
 - ✓ Management of safety, health & environmental risk

Consultation/ Expert/ Evaluator/ Advisory Board Member/ Panel Review

| Destination | Project | Role |
|---|---|---|
| European Commission | Evaluator and Rapporteur for MSCA Postdoctoral Fellowship proposals (2024) | Provide in-depth technical evaluation of proposals in renewable energy systems, environmental engineering, material science, and air quality. |
| European Association of Research Managers & Administrators | International Network of Research Management Societies INORMS submitted in (2024) | Act as an expert and evaluator to evaluate the abstracts submitted to the INORMS Congress 2025. |
| International Development Research Center/ Canada Ministry of Foreign Affairs | Advancing Research for Climate and Health Initiative (2024) | External expert to review submitted proposals to build regional hubs for climate change and health research in Africa and Asia. |

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| Gulf Sustainability Awards | Judge for the proposal evaluation and awards (2024) | Review and score the written proposals and score the live finalists' presentations at the Award finals |
| European Commission | Evaluator and Rapporteur for MSCA Postdoctoral Fellowship proposals (2023) | Provide in-depth technical evaluation of proposals in renewable energy systems, environmental engineering, material science, and air quality |
| Qatar University | Consultant for an NPRP project (2023) | Provide consultancy input toward sustainable food production proposal |
| Gulf Sustainability Awards | Judge for the proposal evaluation and awards (2023) | Review and score the written proposals and score the live finalists' presentations at the Award finals |
| Qatar University | Graduate assistant proposal hiring program evaluator (2023) | Conduct technical evaluation of research project proposals for the graduate assistant position at Qatar University |
| College of Science and Engineering/HBKU Innovation Center/ Hamad Bin Khalifa University | International Conference Scientific Committee member (2023) | Member of the international scientific committee for International Scientific Committee of 14th International Conference on Hydrogen Production (ICH2P-2023) |
| Qatar Foundation | Member of Social Progress Steering Committee (2022) | Member of the committee for the "Excellence in Social Impact Research" theme |
| European Commission | Grant proposal panel reviewer expert for European Research Exchange Agency proposals (2022) | Provide in-depth technical evaluation of proposals in renewable energy systems, environmental engineering, material science, and air quality |
| Hamad Bin Khalifa University/Office of the Vice President for Research | Member of Research Compliance Committee (2022) | Assess research conduct in terms of technical outcomes and outputs of projects funded by QNRF |
| Qatar National Research Fund | Technical evaluation of 11 proposals submitted to the National Scientific Research Competition (NSRC) Fund (2021) | - Provide in-depth technical & scientific evaluation of national/international proposals for funding to projects related to air & water quality, waste management, applied science engineering, and environmental applications. |
| Qatar National Research Fund | Technical evaluation of 10 proposals submitted to the National Scientific Research Competition (NSRC Competition Fund (2021) | - Provide in-depth technical & scientific evaluation of national/international proposals for funding to projects related to air & water quality, waste management, applied science engineering, and environmental applications. |
| National Science Center-Government of Poland | Technical & scientific evaluation of Grant Research Proposals (2020) | - Provide in-depth technical evaluation of proposals in chemical engineering processes and green novel solvents for odor removal from industrial gas streams |
| Qatar National Research Fund | Technical evaluation of 18 plus 6 proposals submitted to the National Scientific Research Competition (NSRC) Fund (2020) | - Provide in-depth technical & scientific evaluation of national/international proposals for funding to projects related to air & water quality, waste management, applied science engineering, and environmental applications. |
| College of Science and Engineering/HBKU Innovation Center/ Hamad Bin Khalifa University | Technical & scientific evaluation of innovative proposals submitted to HBKU Innovative Center (2019) | - Provide in-depth technical & scientific evaluation of national/international proposals for funding to projects related to air quality, urban planning, nanotechnology & environmental sustainability. |

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| Hamad Bin Khalifa University CSE | Peer review of 15+ abstracts submitted 12 th International Exergy, Energy, and Environment Symposium (2019) | -Scientific Committee member to evaluate submitted abstracts for oral and poster presentations |
| Ministry of Municipality and Environment | Review of Qatar Environmental Standards (2018) | - Reviewed oil and gas exploration and production environmental standards. - Conduct gap analysis of Qatar gas emissions. - Provide technical feedback on gas flaring emission standards. |
| Ministry of Public Health | Member of Environmental Health Taskforce (2018- 2020) | - Conduct short-term series of epidemiological studies on air pollution's impact on human health with the following subtasks: - Characterization of air pollution. - Source apportionment of air pollution. - Adoption of concentration endpoints. - Evaluation of air pollution impact on students at public schools. |
| Qatar National Research Fund | Technical evaluation of Challenge 22 Fund Program for World Cup High School Research Competition (2017) | - Provide in-depth technical evaluation of 22 international proposals for multi-million-dollar funding to projects related to the sustainable deployment of World Cup 2022. |
| Qatar National Research Fund | Technical & scientific evaluation of proposals submitted for the National Priority Research Fund Program (NPRP) | - Provide in-depth technical & scientific evaluation of national/international proposals for multi-million-dollar funding to projects related to applied science engineering and environment. |
| Ministry of Municipality and Environment | Technical advice on specification, regulations, standards, and sustainability of Qatari Fertilizers (2017) | - Assessment of in-house analysis tests - Provision of regulations for fertilizer use in Qatar |
| Department of Chemical Engineering-Texas A & M University | Review of proposal- Novel concentrated light-aging techniques for high temperature and solar energy materials (2017) | - Comment and evaluate the progress of the project and provide input for future tasks |
| Qatar Foundation Research & Development (QF R&D) | Proposal reviewer for Qatar STEAM fair competition of the submitted scientific proposals (2016) | -Assessment of the submitted proposals in the field of material science and environment. |

Honors, Scholarships & Awards

- Arab Renewable Energy Academy (ARABRENA) Certificate of Appreciation **2023**.
- Qatar National Research Fund & Qatar Ministry of Education Certificate of Appreciation **2021**.
- Qatar National Research Fund & Qatar Ministry of Education Certificate of Appreciation **2020**.
- Qatar Foundation Monetary Award for Exceeding Expectation employee for the year **2018**.
- Most Valuable Portfolio Member Award for the Environment & Sustainability Research Center, QEERI, Qatar Foundation, **2018**.
- Recognized reviewer recognition certificate from Applied Surface Science/ Elsevier, **2018**.
- Recognized reviewer recognition certificate from Surface and Coatings Technology/ Elsevier, **2018**.
- Recognized reviewer recognition certificate from Arabian Journal of Chemistry/ Elsevier, **2017**.
- Recognition certificate on the role of technical support for young creative students in Engineering, Qatar National Research Fund and Qatar Foundation (R&D) Doha/Qatar, **2015**.
- Faculty of Graduate & Postdoctoral Studies-Dean's Scholarship, **2014**.
- 18th Excellence Ceremony certificate, University of Ottawa, **2014**.
- 17th Excellence Ceremony certificate, University of Ottawa, **2013**.

- 16th Excellence Ceremony certificate, University of Ottawa, **2012**.
- University of Ottawa Excellence scholarship, Ph.D., **2012-2015**.
- Ontario Graduate Scholarship, Ph.D., **2012-2015**.
- University of Ottawa Admission Scholarship, Ph.D., **2011-2015**.
- Faculty of Graduate & Postdoctoral Studies-Dean's Scholarship, **2011**.
- University of Ottawa Admission Scholarship, M.A.Sc., **2010-2011**.
- Performance Recognition Certificate, Qatar General Electricity & Water Corporation, Ministry of Energy, Doha- Qatar, **2006**.
- Scholarship of Ministry of Higher Education, Jordan University, Amman-Jordan, B.Sc. in Chemical Engineering, **1994-1999**.

Invited Talks (Keynote, Plenary, Panels)

- **One Health symposium (MoPH)**, Oral presentation, June, 2023.
- **Communicable Diseases Research Prioritization (MoPH)**, Oral presentation, June, 2023.
- **Doha International Family Institute Event**, Panel and speaker, February 2023.
- **Qatar Sustainability Week**, Climate Change Awareness, HBKU panel speaker, October **2022**.
- **Amazon Sustainability Podcast**, Air Quality, <https://music.amazon.com/podcasts>, August **2022**.
- **Panelist Invitation** to the Women in Academia event, College of Science & Engineering, HBKU-QF, Doha- Qatar. Jan **2022**
- **R. J. Isaifan**, “The dramatic impact of Covid-19 on air quality”, The Association of Arab Universities Conference on the Role of Arab Universities in Facing Corona Pandemic Challenges, June **2021**.
- **R. J. Isaifan**, “The Future of Passive Air Pollution Mitigation: Financing Cleaner and Greener Cities”, hosted by the Centre for Air Pollution, energy and Health Research (CAR) in the UK, and the Clean Air Society for Australia and New Zealand (CASANZ), December **2019**.
- **R. J. Isaifan**, “Improved self-cleaning properties of an efficient and easy to scale up TiO₂ thin films prepared by adsorptive self-assembly”, International Conference on Chemistry and Material Science, Rome- Italy. **2017**
- **R. J. Isaifan**, “Ionic liquids for CO₂ capture and conversion to value-added products”, Material Science and Engineering Symposium, Qatar University. **2016**
- **R. J. Isaifan**, “Self-induced electrochemical promotion of noble metals nanoparticles for environmentally important reaction systems”, the University of Ottawa Department of Chemical and Biological Engineering Graduate Seminar Series, Ottawa University-Canada. **2014**
- **R. J. Isaifan**, “Catalytic electrooxidation of volatile organic compounds by oxygen-ion conducting ceramics in the oxygen-free gas environment”, the University of Ottawa Centre for Catalysis Research and Innovation Technical Seminar, Ottawa University-Canada. **2013**

Professional Services

- **Session Chair**
 - *Photo-electro-catalytic hydrogen production* session at The International Scientific Committee of 14th International Conference on Hydrogen Production (ICH2P-2023), Qatar.
- **Scientific Committees**
 - The International Scientific Committee of 14th International Conference on Hydrogen Production (ICH2P-2023), Qatar.
 - Research Compliance Committee National Priority Research Project, Qatar.
 - The 12th International Exergy, Energy and Environment Symposium (IEEEES-12), Qatar.
- **Affiliations & Memberships**
 - Full member, The Institution of Environmental Sciences, UK.
 - Professional member of the American Institute of Chemical Engineers AIChE.
 - Canadian Society for Chemical Engineers, Canada.
 - Jordanian Engineering Association, Jordan.

- Chemical Institute of Canada, Canada.
- Editorial Board member in Environmental Systems Engineering, Frontiers in Environmental Science.
- Member of the communication and outreach working group at Coalition for Diversity and Inclusion in Scholarly Communications
- Editorial member in Climate Change and Cities, Frontiers in Environmental Science.

• Workshops and Training

Delivered a workshop on Academic and Research Writing Skills” to:

- College of Humanities, HBKU, October 2022
- Public invitees, March 2021.
- Students at College of Science and Engineering, Nov 2021.
- Students at College of Life and Health Sciences, Aug 2022.
- Students at College of Humanities and Social Studies, 2022.

• Volunteering Activities

- Volunteer at Qatar Social Works for empowering orphans, 20021-2022- present.
- Volunteer to review 3200 chemical items under the Chemical Blanket Agreement for the State of Qatar, **2017**.
- Panel reviewer at Qatar Steam Fair to supervise scientific projects submitted for funding by school students in Qatar **2016- present**.
- Chair of Carson Grove Elementary School Council, Ottawa-Canada, **2012-2015**.
- Volunteer under the supervision of the academic coordinator at the chemical engineering department to give help and advice to new international students who wish to join the chemical engineering department and have concerns about living and studying in Canada, **2011-2014**.
- Training of new graduate and undergraduate students for nanoparticle synthesis and calibrating instruments in the Electrochemical Engineering laboratory, **2011-2014**.

Patents

Sports Complex with Integrated Power System, submitted to the United States Patent and Trademark Office on August 10, 2022. File no. 63/396,937.

Funding

| Proposal title | Status | Role | Granting agency | Duration | Start date | End date | Budget (QAR) |
|---|---------|--------|-----------------|--------------------|------------|----------|--------------|
| New chemistries for the catalytic conversion of natural gas to valuable organics NPRP 6-370-1-075 | Awarded | Co-LPI | QNRF | 3 years extended 1 | Jan 2014 | Jan 2018 | 3,761,325 |

Advising Graduate Students

- Mrs. Taif Al-Salama, PhD candidate in Sustainable Environmental Engineering at Hamad Bin Khalifa University, Doha-Qatar. (In progress)
- Eng. Maryam Al-Jabir, M.Sc. candidate in Sustainable Energy Engineering at Hamad Bin Khalifa University, Doha-Qatar. (Complete)
- Eng. Shouq Al-Qahtani, M.Sc. candidate in Sustainable Energy Engineering at Hamad Bin Khalifa University, Doha-Qatar. (Complete)
- Eng. Enas Fares, Ph.D. candidate in Sustainable Environmental Engineering at Hamad Bin Khalifa University, Doha-Qatar. (Complete)
- Eng. Hanadi Al-Thani, M.Sc. candidate in Sustainable Environmental Engineering at Hamad Bin Khalifa University, Doha-Qatar. (Complete)
- Eng. Hanadi Al-Thani, Ph.D. candidate in Sustainable Environmental Engineering at Hamad Bin Khalifa University, Doha-Qatar. (Complete)
- Mrs. Taif Al Salama, M.Sc. candidate in Sustainable Environmental Engineering at Hamad Bin Khalifa University, Doha-Qatar. (Complete)
- Mr. Dillan Roshan, Ph.D. candidate in Sustainable Environmental Engineering at Hamad Bin Khalifa University, Doha-Qatar. (Complete)
- Member of Examination Committee for 2 Ph.D. graduates: Dana Abdeen & Athar Kamal, 1 M.Sc. graduate: Dillan Roshan, & chaired 1 M.Sc. defence examination of Mansour Al-Thani.

Publications (h-index=27)

I. REFEREED JOURNAL ARTICLES (PUBLISHED/SUBMITTED)

- 1) H. Al-Thani*, M. Koc, **R. J. Isaifan**, "Traffic air pollution emissions in Qatar: Actual, projections and mitigation," *Innovation and Technological Advances for Sustainability*, (2024) 35-45.
- 2) T. Osman, T. Paquet, R. Furlan, M. Tadi, R. Al-Matwi, **R. J. Isaifan***, "Transit-Oriented Development in Middle Eastern Cities: The Urban Renewal Framework for the Souq Waqif in Doha, Qatar", *Urban Science* 8 (4), (2024) 182.
- 3) E. Tutsak, B. Alföldy, M. Mahfouz, J. Al-Thani, O. Yiğiterhan, I. Shahid, **R. J. Isaifan**, M. Kocak, "Chemical Composition of Indoor and Outdoor PM_{2.5} in the Eastern Arabian Peninsula," *Environmental Science and Pollution Research* 31 (37), (2024) 49589-49600.
- 4) M. Danish, **R. J. Isaifan***, Strategic plans to support action against climate change in the Arab world, *Journal of Sustainable Development Law and Policy* 15 (1) (2024) 304-335.
- 5) S. Patel, N. Jabbour, D. John, A. M. Ahmad, R. Furlan, R. Al-Matwi, **R. J. Isaifan**, "The impact of urban design on mental well-being by integrating green spaces in Doha City, Qatar," *Journal of Infrastructure, Policy and Development* 8 (3) (2024) 3147.
- 6) M. Al-Jabir, **R. J. Isaifan***, "Long-Term Projection of Transport-Related Social Cost of Greenhouse Gas Emissions in Qatar," *Sustainability* 16 (2) (2024) 536.
- 7) S. Al-Qahtani, M. Koc, **R. J. Isaifan***, Mycelium-based thermal insulation for domestic cooling footprint reduction: A review, *Sustainability* 15 (17) (2023) 13217.
- 8) M. Al-Jabir, **R. J. Isaifan***, "Low Transportation Emission Analysis and Projection Using LEAP: The Case of Qatar," *Atmosphere* 14 (8) (2024) 1286.
- 9) B. Aissa, **R. J. Isaifan**, et al., "A comprehensive review of a decade of field PV-soiling assessment in QEERI' outdoor test facility in Qatar: Learned lessons and recommendations," *Energies*, 16 (13) (2023) 5224.
- 10) N. Mahmoud, D. Al-Shahwani, H. Al-Thani, **R. J. Isaifan***, "Risk assessment of heavy metals in urban traffic dust on human health," *Atmosphere*, 14 (6) (2023) 1049.
- 11) **R. J. Isaifan***, S. Ajjur, "A commentary on Qatar's ambitious measures to abate climate change from a health protection perspective," *Qatar Journal of Public Health*, 1, 2, (2023).
- 12) A. Al-Mohannadi, M. Major, R. Furlan, R. Al-Matwi, **R. J. Isaifan***, Investigation of Spatial and Cultural Features in Contemporary Qatari Housing, *Urban Sciences*, 7 (2) (2023) 60.
- 13) M. Ameen, M. Zafar,..., **R. J. Isaifan**, et al., "Assessing the Bioenergy Potential of Novel Non-Edible Biomass Resources via Ultrastructural Analysis of Seed Sculpturing Using Microscopic Imaging Visualization," *Agronomy*, 13 (2023), 735.
- 14) M. Al-Mohannadi, R. Awwaad, R. Furlan, M. Grosvald, R. Al-Matwi, **R. J. Isaifan***, "Sustainable Status Assessment of the Transit-Oriented Development in Doha's Education City," *Sustainability*, 15 (2023) 1913.
- 15) **R. J. Isaifan***, "Air pollution burden of disease over highly populated states in the Middle East," *Frontiers in Public Health*, (2022) 10.
- 16) **R. J. Isaifan**, Chokri Kooli, "Highlights on the unavoidable impact of climate change on public health policy," *Avicenna*, 6 (2022).
- 17) A. Hassabou, **R. J. Isaifan***, "Mathematical modeling and simulation of phase change material absorbers for passive cooling of solar systems," *Energies*, 15 (2022) 9288.
- 18) S. Rizoli, H. Al Thani, **R. J. Isaifan**, "Highlights on the Further Growth of JEMTAC at the National and International Level," *JEMTAC*, 5 (2022) 28.
- 19) E. Fares, B. Aissa, **R. J. Isaifan***, "Inkjet-printed-metal oxide coatings for solar panels anti-soiling application," *Global Journal of Environmental Science and Management*, 8 (2022) 485-502.
- 20) H. Al-Thani*, M. Koc, **R. J. Isaifan**, Y. Bicer, "A review of the integrated renewable energy systems for sustainable urban mobility," *Sustainability*, 14 (17) (2022) 10517.
- 21) A. Amhamed, R. Al-Rahimi, S. Hewlett, A. Sodiq, Y. Abdellatif, **R. J. Isaifan**, O. Alrebei, "State of the Art in Integrating Carbon Capture to Ammonia Production Plants – A review," *Fuels*, 3 (2022) 408-438.
- 22) A. Ouigmane, O. Boudouch, A. Hasib, O. Oushine, E. Abba, **R. J. Isaifan**, M. Aadraoui, M. Berkani, "Energetic valorization of municipal solid waste in Morocco: financial feasibility of refuse derived fuel production", *Earth and Environmental Science*, 1090 (1) (2022) 012014.

- 23) J. Poetzsch, **R.J. Isaifan***, The impact of COVID-19 induced lockdowns during spring 2020 on nitrogen dioxide levels over major American counties, *Elementa: Science of the Anthropocene*, 9 (2021) 00002.
- 24) J. Olusola, A. Shote, A. Ouigmane, **R. J. Isaifan***, "The impact of COVID-19 on nitrogen dioxide levels in Nigeria," *Peer J Life & Environment*, 9: e11387 (2021).
- 25) A. Ouigmane, O. Boudouch, A. Hasib, O. Ouhsine, E. Layati, **R. J. Isaifan**, E. Aatchane, A. Mottassadik, M. Berkani, "Effect of COVID-19 on the generation of different types of waste in the city of Marrakech; Morocco", *Journal of Health and Pollution*, 11 (2021) 210606.
- 26) A. Ouigmane, O. Boudouch, A. Hasib, O. Ouhsine, **R. J. Isaifan**, A. El-Hassan, "The impact of RDF valorization on the leachate quality and on emissions from cement kiln (Case study of a region in Morocco)," *Pollution* 7, (2021) 293-307.
- 27) E. Fares, M. Buffiere, B. Figgis, Y. Haik, **R. J. Isaifan***, Soiling of photovoltaic panels in the Gulf Cooperation Council countries and mitigation strategies, *Solar Energy Materials and Solar Cells*, 231 (2021) 111303.
- 28) T. Alsalama, M. Koc, **R. J. Isaifan***, Investigations on the domestic waste and its impact on human health-case study for Qatar to understand the needs and recommendations, *The International Journal of Global Warming*, 25 (3-4), 516-526 (2021).
- 29) R. Alasfar, **R. J. Isaifan***, "Aluminum, The silent killer", *Journal of Environmental Science and Pollution Research*, July (2021) 1-11.
- 30) T. Alsalama, M. Koc, **R. J. Isaifan***, "Mitigation of urban air pollution with green vegetation for sustainable cities: A review", *The International Journal of Global Warming*, 25 (3-4), 498-515 (2021).
- 31) M. Aadraoui, J. Rais, M. Elbaghdadi, A. Ouigmane, M. Mechadi, **R. J. Isaifan**, "Impact of High Temperatures on Sewage Sludge Characteristics: The Case of Khenifra City's Wastewater Treatment Plant," submitted to *Environment and Natural Resources Journal*, (2020).
- 32) O. Ouhsine, A. Ouigmane, E. Layati, B. Aba, **R. J. Isaifan**, M. Berkani, "Impact of COVID-19 on the qualitative and quantitative aspect of household solid waste", *Global Journal of Environmental Science and Management*, 6 (2020) 1-12.
- 33) H. Al-Thani, S. Al-Ghamdi, M. Koc, **R. J. Isaifan***, Emissions and Fuel Life Cycle Assessment of Non-passenger Diesel Vehicles in Qatar, *Pollution* 6 (2020) 603-621.
- 34) **R. J. Isaifan***, The dramatic impact of Coronavirus outbreak on air quality: Has it saved as much as it has killed so far? *Global Journal of Environmental Science and Management*, 6 (2020) 275-288.
- 35) H. Al-Thani, M. Koc, C. Fountoukis, **R. J. Isaifan***, "Evaluation of particulate matter emissions from non-passenger diesel vehicles in Qatar", *Journal of Air and Waste Management Association*, 70 (2020) 228-242.
- 36) **R. J. Isaifan***, R. Baldauf, "Estimating the economic benefits of urban trees in desert regions due to air quality and other environmental improvements", *Frontiers in Ecology & Evolution*, 8 (2020) 16.
- 37) D. Roshan*, M. Koc, A. Abdallah, L. Martin, **R. J. Isaifan**, Christos Fountoukis, "UV Index forecasting under the influence of desert dust: Evaluation against surface and satellite-retrieved data", *Atmosphere*, 11 (2020) 96.
- 38) M. Mohammad, **R. J. Isaifan**, Y. Weldu, M. Rahman, S. Al-Ghamdi, "Progress on Carbon Dioxide Capture, Storage and Utilization: A Review", in press at the *International Journal of Global Warming*, 20 (2019) 124-144.
- 39) D. Roshan, M. Koc, **R. J. Isaifan**, M. Shahid, C. Fountoukis, "Aerosol Optical Thickness over Large Urban Environments of the Arabian Peninsula Speciation, Variability, and Distributions", *Atmosphere*, 10 (2019) 228.
- 40) **R. J. Isaifan***, D. Johnson, L. Ackerman, B. Figgis, M. Ayoub, "Evaluation of the adhesion forces between dust particles and photovoltaic module surfaces in Qatar", *Solar Energy Materials and Solar Cells*, 191 (2019) 413-421.
- 41) H. Al-Thani, M. Koc, **R. J. Isaifan***, "A review on the direct effect of particulate atmospheric pollution on materials and its mitigation for sustainable cities and societies", *Environmental Science and Pollution Research* (2018) 1-19.
- 42) H. Al-Thani, M. Koc, **R. J. Isaifan***, "Investigations on deposited dust fallout in urban Doha: characterization, source apportionment, and mitigation", *Environment and Ecology Research* 6 (2018) 493-506.
- 43) **R. J. Isaifan***, H. Al-Thani, M. Ayoub, B. Aïssa, M. Koc, "The Economic Value of Common Urban Trees in the State of Qatar from an Air Quality Control Perspective", *Journal of Environmental Science and Pollution Research*, 4 (2018) 285-288.

- 44) **R. J. Isaifan***, D. Johnson, S. Mansour, A. Samara, W. Suwaileh and K. Kakosimos, "Theoretical and experimental characterization of efficient anti-dust coatings under desert conditions", *The Journal of Thin Films Research* 1: 25-29 (2018).
- 45) M. Al-Jassim, **R. J. Isaifan***, A review on the sources and impacts of Radon indoor air pollution, *Journal of Environmental and Toxicological Studies*, 2 (2018) 1-9.
- 46) **R. J. Isaifan***, A. Amhamed, "Review on Carbon Dioxide absorption by Choline Chloride/Urea Deep Eutectic Solvents, *Advances in Chemistry*, 2675659 (2018) 1-6.
- 47) B. Aïssa, N. Mourad, J. Kroeger, A. Al., **R. J. Isaifan**, R. Essehli, K. Mahmoud, "Graphene nanoparticles doping of P3HT: PCBM photoactive layer of bulk heterojunction organic solar cells for enhancing performance", *Journal of Nanotechnology*, 29 (2018) 105405.
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- 49) H. Al Yassi, **R. J. Isaifan***, A Review on Air Pollution Emissions from Waste Treatment and Disposal Facilities and their Potential Impact", *Journal of Environmental and Toxicological Studies*, 2 (2018) 1-9.
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- 53) **R. J. Isaifan**, M. Couillard, E. A. Baranova*, "Particle size effect of Pt/yttria-stabilized zirconia on carbon monoxide methanation and preferential electrooxidation for hydrogen gas purification at low temperatures", *The International Journal of Hydrogen Energy*, 42: 13754–13762 (2017).
- 54) B. Aïssa*, M. Nedil, A. Belaidi, **R. J. Isaifan**, A. Bentouaf, C. Fauteux, D. Therriault, "Photoluminescence quenching, structures, and photovoltaic properties of ZnO nanostructures decorated plasma grown single-walled carbon nanotubes", *Journal of Nanoparticles Research* 19:157 (2017).
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- 63) **R. J. Isaifan**, E. A. Baranova, "Effect of ionically conductive supports on the catalytic activity of platinum and ruthenium nanoparticles for ethylene complete oxidation," *Catalysis Today* 241 (2014) 107-113.
- 64) S. Ntais*, **R. J. Isaifan**, E. A. Baranova, "An X-ray photoelectron spectroscopy study of platinum nanoparticles on yttria-stabilized zirconia ionic support: Insight into metal support interaction", *Materials Chemistry and Physics*, 148 (2014) 673-679.
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II. CONFERENCE PRESENTATIONS

- 1) E. Tutsak, B. Alföldy, M. Mahfouz, J. Al-Thani, Jassem, O. Yigiterhan, I. Shahid, **R. J. Isaifan**, M. Kocak, Characterization of Indoor and Outdoor Particulate Matter (PM_{2.5}) in the Eastern Arabian Peninsula, Poster Award Submitted to the Annual Research Forum & Exhibition, Qatar, (2023).
- 2) S. Al-Qahtani, M. Koc, **R. J. Isaifan**, Mycelium-Based Thermal Insulation for Domestic Cooling Footprint Reduction" has been accepted for presentation at the ICASF conference, Dubai, UAE, (2023).
- 3) H. Al-Thani, M. Koc, **R. J. Isaifan***, Traffic Air Pollution Emissions in Qatar: Actual, Projections and Mitigation, accepted at IEEE Xplore, (2023).
- 4) M. Al-Jabir, **R. J. Isaifan***, Low transportation emissions analysis and projection using Leap: The case of Qatar, Entrepreneurship for Sustainability & Impact (ESI), 6th International Conference, Qatar, (2023).
- 5) S. Al-Qahtani, M. Koc, **R. J. Isaifan***, Mycelium-based thermal insulation for domestic cooling footprint reduction, Entrepreneurship for Sustainability & Impact (ESI), 6th International Conference, Qatar, (2023).
- 6) **R. J. Isaifan**, HBKUP and MoPH collaboration for publishing QJPH, One Health symposium (MoPH), June, (2023).
- 7) **R. J. Isaifan**, HBKUP and MoPH collaboration for publishing QJPH Communicable Diseases Research, June, (2023).
- 8) A Ouigmane, O Boudouch, A Hasib, O Ouhsine, E Abba, **R. J. Isaifan**, M Aadraoui, M Berkani, "Energetic valorization of municipal solid waste in Morocco: financial feasibility of refuse derived fuel production," IOP Conference Series: Earth and Environmental Science, (2022).
- 9) R. Abdallah, A. Juaidi, **R. J. Isaifan**, H. Aamur, Assessment of hydrogen production in Palestine using solar International Renewable Energy Congress, (2022).
- 10) **R. J. Isaifan***, Scholar content transformation from submission to publishing, OASPA 2022 Conference on Open Access Scholarly Publishing, September, (2022).
- 11) H. Al-Thani, M. Koc, **R. J. Isaifan***, Assessment, projection and mitigation of diesel vehicle emissions in Qatar, 2nd International Traffic Safety Conference 2022 (ITSC 2022), Doha-Qatar (2022).
- 12) E. Fares, **R. J. Isaifan***, The role of nanoparticles in the improvement of anti-soiling properties of novel inkjet- printed thin films for solar panel applications, The World Congress on Nanoscience and Nanotechnology (WCSAS 2022), Qatar, (2022).
- 13) E. Fares, R. J. Isaifan, Arab-American Frontiers Symposium, Ink-Jet Printer thin films for antisoiling applications, Doha-Qatar (2021).
- 14) H. Al Thani, M. Koc, S. Al-Ghamdi, **R. J. Isaifan***, Fuel life cycle assessment of non-passenger diesel vehicles in Qatar, 12th International Exergy, Energy, and Environment Symposium, Doha-Qatar (2020).
- 15) T. Alsalama, M. Koç, **R. J. Isaifan**, Green Plantation to Mitigate Particulate Matter (PM)- A Case Study for Clean Air in Qatar Public Schools, 12th International Exergy, Energy, and Environment Symposium, Doha-Qatar (2020).
- 16) **R. J. Isaifan***, M. Ayoub, Particulate matter characterization, sources and mitigation in Qatar, oral presentation at *The 8th Global Conference on Global Warming*, Qatar (2019).
- 17) **R. J. Isaifan***, M. Ayoub, Achieving sustainable environmental goals during mega events: lessons learned towards hosting a green World Cup 2022 in Qatar, oral presentation at *The 8th Global Conference on Global Warming*, Qatar (2019).
- 18) H. Al-Thani, M. Koc, **R. J. Isaifan***, The importance of mitigation policies in the reduction of particulate matter emissions from diesel vehicles in Qatar, poster presentation at *the 8th Global Conference on Global Warming*, Qatar (2019).

- 19) **R. J. Isaifan***, M. Ayoub, Particulate matter characterization, sources and mitigation in Qatar, Submitted abstract for oral presentation at *The Better Air Quality Conference*, Malaysia (2018).
- 20) D. Roshan, C. Fountoukis, M. Koc, **R. J. Isaifan**, "Comprehensive analysis of aerosol composition and movement across the Arabian Peninsula from 2005-2015", oral presentation at the 8th *Global Conference on Global Warming*, Qatar (2019).
- 21) H. Al-Thani, M. Ayoub, B. Aïssa, M. Koc, **Rima J. Isaifan***, "Common Urban Trees in the State of Qatar from an Air Quality Control Perspective for Environmental Sustainability", accepted oral presentation at *Qatar Council for Green Buildings*, October (2018), Doha-Qatar.
- 22) Comprehensive Air Quality Management in Qatar: Our Challenges and the Path Forward – M. A. Ayoub, C. Fountoukis, L. Ackermann, R. J. Isaifan, J. Al-Emadi and F. Al-Oyoun, *National Air Quality Conference, US-EPA*, Texas, USA (2018).
- 23) **R. J. Isaifan***, A. Samara, W. Suwaileh, D. Johnson, W. Yiming, A. Abdallah, B. Aïssa, "Improved Self-cleaning Properties of an Efficient and Easy to Scale up TiO₂ Thin Films Prepared by Adsorptive Self-Assembly, *The International Conference for Material Science*, Rome, Italy, (2017).
- 24) H. Al-Thani, **R. J. Isaifan***, M. Koc, "The Elemental Composition of Atmospheric Particles in Qatar: An Insight into Sources of Particulate Matter Pollution and Applicable Mitigation Policies", *The International Conference for Material Science*, Rome, Italy, (2017).
- 25) **R. J. Isaifan**, T. Rhadfi, A. Samara, A. Abdallah, B. Aïssa, "Efficient TiO₂ thin films prepared via adsorptive self-assembly for photovoltaic self-cleaning and anti-soiling applications", American Chemical Society Conference, San Francisco, USA, (2017).
- 26) **R. J. Isaifan***, W. Suwaileh, S. Jawad, "Characterization of an easy to scale up anti-reflective coatings on glass substrates for optical and solar applications", 12th *Pacific Rim Conference on Ceramic and Glass Technology*, Hawaii, USA, (2017).
- 27) **R. J. Isaifan**, M. Couillard, E. A. Baranova*, "Particle size effect of Pt/yttria-stabilized zirconia on carbon monoxide methanation and preferential electrooxidation for hydrogen gas purification at low temperatures", Abstract Proceeding, *The 21st World Hydrogen Energy Conference*, Zaragoza, Spain, (2016).
- 28) E. A. Baranova*, **R. J. Isaifan**, S. Ntais, M. Couillard, "Electrochemically Driven Gas Phase Ethylene and CO Oxidation on Pt/Yttria-Stabilized Zirconia Catalysts", *The Electrochemical Society*, 1790-1790, USA, (2016).
- 29) **R. J. Isaifan**, E. A. Baranova*, "Metal-support interaction of platinum nanoparticles supported on yttria stabilized zirconia catalysts for environmentally important reaction systems", *The Swiss Chemical Society Fall Meeting*, Lausanne, Switzerland, (2015).
- 30) **R. J. Isaifan**, E. A. Baranova*, "Ionically and non-ionically conductive supports for ethylene complete oxidation over Pt and Ru nanoparticles", *The 11th European Congress on Catalysis-EuropaCat-XI*, Lyon, France, (2013).
- 31) M. Lortie, S. Ntais, **R. J. Isaifan**, E. A. Baranova*, "Reverse water gas shift reaction over Pt nanoparticles supported on oxygen ion conductive ceramics", *Electrochemical Society Conference*, San Francisco, USA, (2013).
- 32) S. Ntais, **R. J. Isaifan**, Elena A. Baranova*, "XPS studies of yttria-stabilized zirconia interfaced with Pt nanoparticles for carbon monoxide and ethylene electrooxidation", *Electrochemical Society Conference*, San Francisco, USA, (2013).
- 33) **R. J. Isaifan**, S. Ntais, M. Couillard, E. A. Baranova*, "Carbon monoxide and ethylene electro-oxidation by Pt nanoparticles/yttria stabilized zirconia catalysts in oxygen-free gas environment: Effect of Pt particle size", International Workshop for Ionically Conductive Ceramics for Catalysis, Lyon, France, (2013).
- 34) **R. J. Isaifan** and E. A. Baranova*, "Self-induced electrochemical promotion of platinum nanoparticles deposited on ionically conductive supports for ethylene complete oxidation", *The 62nd Canadian Chemical Engineering Conference*, Vancouver, Canada, (2012).
- 35) E. A. Baranova*, H. A. Dole and **R. J. Isaifan**, "Electrochemical promotion of Au and Pt nanoparticles for oxidation of volatile organic compounds at low temperature", *The 3rd International Symposium on Surface Imaging / Spectroscopy at the Solid / Liquid Interface*, Cracow, Poland, (2012).
- 36) **R. J. Isaifan**, H. Dole, M. Lortie, and E. A. Baranova*, "Ethylene oxidation over size controlled nanoparticles deposited on different supports", *The 7th International Conference on Environmental Catalysis*, Lyon, France, (2012).
- 37) H. Dole, **R. J. Isaifan**, L. Lizarraga, P. Vernoux, E. A. Baranova*, "Toluene oxidation over size-controlled Pt nanoparticles deposited on ionically and non-ionically conductive supports", *ECS Conference*, Seattle, USA, (2012).
- 38) **R. J. Isaifan**, E. A. Baranova*, "Self-induced Electrochemical Promotion of ruthenium and platinum nanoparticles deposited on yttria-stabilized zirconia for ethylene complete oxidation", *The 2nd ECS Symposium*, Montreal, Canada, (2012).
- 39) E. A. Baranova*, P. Vernoux, L. Lizarraga, E. Obeid, **R. J. Isaifan**, H. Dole, "Catalytic carbon monoxide oxidation over size-controlled Pt nanoparticles in the gas phase and elevated temperatures," *The 219th Electrochemical Society Conference*, Montreal, Canada, (2011).

- 40) **R.J. Isaifan**, E. A. Baranova*, H. A. Dole, "Electrochemical promotion of platinum nanoparticles supported on yttria stabilized zirconia," *The Electrochemical Society Symposium*, Queens University, Kingston, Canada, (2011).
- 41) **R.J. Isaifan**, E. A. Baranova*, H. A. Dole, "Electrochemical promotion of platinum nanoparticles supported on yttria-stabilized zirconia," *The Annual Meeting of the Center for Catalysis Research and Innovation (CCRI)*, University of Ottawa, Ottawa, Canada, (2011).
- 42) João O. C. Filizzola, **R. J. Isaifan**, W. Penwell, J. Georgi, E. A. Baranova*, Platinum nanoparticles supported on novel perovskite materials for oxidation of CO and C₂H₄, *Science without Borders Symposium*, University of Ottawa, Canada, (2013).
- 43) **R.J. Isaifan**, E. A. Baranova, H. A. Dole, "Electrochemical promotion of platinum nanoparticles supported on yttria stabilized zirconia," *The Annual Meeting of the Center for Catalysis Research and Innovation (CCRI)*, University of Ottawa, Ottawa, Canada, (2013).

III. BOOK CHAPTERS/WRITTEN WORK

- 44) **R. J. Isaifan***, H. Al-Thani, Actions Taken to Reduce Air Pollution and its One Health Impacts in MENA Countries, a book chapter in press in response to an invitation to contribute towards "The Handbook of Environmental Chemistry. Sustainable Strategies for Air Pollution Mitigation: Economics and Technologies" with Springer Nature, 2024.
- 45) H. Al-Thani*, **R. J. Isaifan**, Policies and Regulations for Sustainable Clean Air: A Comprehensive Overview, a book chapter in press in response to an invitation to contribute towards "The Handbook of Environmental Chemistry. Sustainable Strategies for Air Pollution Mitigation: Economics and Technologies" with Springer Nature, 2024.
- 46) W. Suwaileh, **R. J. Isaifan**, R. Rahighi, A. Bakhshayesh, M. Ahmed, Technological Advances in Harnessing Energy from Renewable Sources for Water Production in Technological Advances in Harnessing Energy from Renewable Sources for Water Production, DOI: <http://dx.doi.org/10.5772/intechopen.110690>, IntechOpen, 2023.
- 47) W. Suwaileh, **R. J. Isaifan**, Significance of Interface: Scientific importance and importance in daily life, Polymer Interfacial Characteristics in Polymer Blends, IPNs, Gels, and Composites. 2023. ISBN: 978311073992
- 48) **R. J. Isaifan**, Self-induced Electrochemical Promotion of Noble Metal Nanoparticles for Environmentally Important Reaction Systems, Thesis, Université d'Ottawa/University of Ottawa, 2015.
- 49) **R. J. Isaifan**, "Synthesis of well-defined size and shape nanoparticle using modified polyol reduction method", Laboratory Manual, Laboratory of Electrochemical Engineering, Chemical Engineering Department, Faculty of Engineering, University of Ottawa, Canada, 2011.

Professional Training

- Balanced Score Card Training, MOEHE, Qatar, 2024.
- Creative Thinking: Techniques and tools for Success, Qatar, 2022.
- Masterclass on Optimizing Organizational Energies, Qatar, 2022.
- How to increase the visibility of your scholarly journal, online, 2022.
- Electrical Awareness Safety Training, Doha-Qatar, 2019.
- Laboratory Ventilation System Training conducted, Doha-Qatar, 2017.
- Attended the Chemical Management System (CHEMATIX) Training, Doha-Qatar, 2017.
- Professional Training on x-ray Fluorescence, Doha-Qatar, 2017.
- Professional Training on UV-visible, scanning electron microscopy, Infrared spectroscopy, Doha-Qatar, 2016-2017.
- Theory & Practices of Undergraduate Teaching (36 hr), University of Ottawa Teaching Center, winter 2012.
- Workshop in "Teaching Assistant in Engineering: Roles, Tasks, and Professionalism" (6 hr), University of Ottawa Teaching Center, 2013.
- Certified in X-ray Diffraction Training & Practice (70 hr) at the University of Ottawa, 2011.
- Primavera P6 course by CMCS-June, 2008, Doha-Qatar, 2008.
- PB views software for key performance indicators presentation, 2007.
- Balanced scorecard workshop, Doha-Qatar, 2007.
- Water Gems Modeling Software Course, Doha-Qatar, 2006.
- California Computer Center: Microsoft Office Course: (Windows, WinWord, Excel, PowerPoint, Internet, Access).
- Technical Writing Course, Jordan University, 1999.
- Radiation Protection Certificate from The Ministry of Energy and Natural Resources Authority, 1999.

- ICPMS Applications for water samples analysis, Sheraton Hotel-Doha/Qatar, **2003**.

Teaching Experience

- Joint Faculty Professor at Hamad Bin Khalifa University for the following courses:
 - Climate Change and Air Pollution · Independent Study Course (Elemental composition of particulate matter) · Independent Study Course (Anti-dust coating for Solar Panels).
- Teaching assistant at Ottawa University between 2010-2014 for the following course:
 - Thermal conversion processes for energy production, Global Oil & Gas Management, Electrochemistry, Transport phenomena, Advanced catalysis, Nanotechnology, Fluid mechanics, Fuel cell technology, Renewable and green energy, Reaction and phase equilibrium, Catalysis Technology, Aqueous engineering, Technical writing, Management of safety, health & environmental risk.
- Certified from the University of Ottawa Professional knowledge in practical pedagogy for graduate & undergraduate teaching & evaluation (33 credit hours).