



Zaher Mundher Yaseen ✓

Edit

(Yaseen, Z. M.)



Highly Cited Researcher
mentor



Top peer reviewer



Academy



Web of Science ResearcherID: G-7029-2018

Published Organizations ⓘ University of Southern Queensland, Universiti Teknologi MARA, Ayen Univ, University of Baghdad, Al-Ayen University, Asia University Taiwan, South Ural State University, Duy Tan University, Ton Duc Thang University, Universiti Kebangsaan Malaysia, Universiti Teknologi Malaysia, Agua Int Water Relief, Ambo University, Sarjug Dent Coll & Hosp, German University in Cairo, Cairo University, University of Technology Sydney, University of Anbar, Arizona State University, Freescale Semiconductor, University of Dhaka

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Subject Categories BETA

Engineering; Water Resources; Environmental Sciences & Ecology; Computer Science; Science & Technology - Other Topics

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Websites:

Researchgate: https://www.researchgate.net/profile/Zaher_Yaseen

Scopus: <https://www.scopus.com/authid/detail.uri?authorId=56436206700>

Google Scholar: <https://scholar.google.com/citations?user=GLRUHJ4AAAAJ&hl=en>

Publons: <https://publons.com/researcher/1441337/zaher-mundher-yaseen/>

Date of birth 15/04/1988 | **Nationality** Iraqi

Married with one child.

CURRICULUM VITAE

1. Academic Positions:

- i. **Teaching Assistant:** The National University of Malaysia, Bangi (Malaysia) [15/09/2014–01/05/2017].
- ii. **Senior Lecturer:** Ton Duc Thang University, Ho Chi Minh City (Vietnam) [15/11/2017–15/11/2020].
- iii. **Post Doc:** Universiti Teknologi Malaysia, Malaysia [June 2018- June 2020]
- iv. **Scientific Researcher:** Ton Duc Thang University, Ho Chi Minh City (Vietnam) [15/11/2017–15/11/2020].
- v. **Scientific Researcher:** Duy Tan University, Da Nang (Vietnam) [1/1/2020–31/12/2020].
- vi. **Scientific Researcher:** Asia Univeristy (Taiwan) [1/02/2021–31/02/2022].
- vii. **Scientific Researcher:** South Ural State University, (Russia) [1/12/2021–1/12/2022].
- viii. **Scientific Researcher:** Universiti Teknologi MARA (UiTM), Malaysia [1/02/2022-07/09/2022]
- ix. **Scientific Researcher:** University of Southern Queensland, Australia [1/02/2022-07/09/2022]
- x. **Scientific research director (consultant position):** Al-Ayen University, Thi-Qar, 64001, (Iraq), [10/3/2021–Present].
- xi. **Senior Lecturer:** The National University of Malaysia, Bangi (Malaysia) [15/04/2022–30/08/2022].
- xii. **Assistant professor:** King Fahd University of Petroleum and Minerals, Saudi Arabia [07/09/2022-Present]

2. Education and Training

- i. 01/09/2006–20/07/2010 Bachelor in Dams and Water Resources Engineering (University of Anbar), Ramadi, Anbar (Iraq)
- ii. 01/09/2012–14/03/2014 master's in Civil Engineering (The National University of Malaysia, Bangi Malaysia)
Thesis Title: Daily Streamflow Forecasting Utilizing Artificial Neural Network at Johor River, Malaysia
- iii. 01/09/2014–20/07/2017 Ph.D in Civil Engineering (The National University of Malaysia, Bangi Malaysia)
Thesis Title: EXTREME LEARNING MACHINE COMPUTING MODEL FOR STREAM-FLOW FORECASTING.

3. Communication Skills

- i. **Personal:** Hardworking and professional; dedicated with strong work ethic; focused with attention to detail; motivated and enthusiastic; friendly and approachable; work well with diverse groups; keen to keep updated.
- i. **Lecturing:** Engineering and technical skills; facilitation of learning; student centered approach to learning; knowledge expertise; classroom management; plan and deliver lessons; assessment and evaluation; learning needs analysis, academic writing and study skills; research skills; conferences, seminars and publications; supervision and mentoring; counseling.
- ii. **Management:** Leadership and team building; organization and administration; academic planning and implementation; course management and delivery; research, environmental issues and sustainable development; collaborating and liaising; staff management and development; program development and accreditation; quality monitoring and assurance; resource management – time, financial and human; communication and interpersonal skills; documentation and reports; presentations and public speaking.

4. Bio Data

Dr. Zaher Mundher Yaseen is an Assistant professor and research scientist in the field of civil and environmental engineering. Currently, he is working at King Fahd University of Petroleum and Minerals, Saudi Arabia. The scope of his research is quite abroad, covering water resources engineering, environmental engineering, knowledge-based system development, climate and the implementation of data analytic and artificial intelligence. He has published over 485 research articles within international journals and total number of citations over 27000 (Google Scholar H-Index = 92). He has collaborated with over 70 international countries and more than 1000 researchers. He has served as a reviewer for more than 150 international journals and academic editor for several Clarivate ISI journals.

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5. Field of Specialization and Teaching Courses

- Water Surface Hydrology.
- Sustainable Water Management.
- Dams Engineering.
- Soil Mechanic.
- Sediment transport.
- Fluid Mechanics.
- Water Resources Engineering and Planning.
- Advanced Soil Mechanics.
- Water Supply Engineering.
- Applied hydraulic engineering.
- Groundwater engineering

6. Journal editorial role

Engineering Applications of Computational Fluid Mechanics: Associate editor (Impact factor 6.5)

Journal of Hydrology: Associate editor (Impact factor 6.3)

<https://www.journals.elsevier.com/journal-of-hydrology>

Plos one Journal: Associate editor (Impact factor 3.24)

<https://journals.plos.org/plosone/>

Engineering Applications of Artificial Intelligence: Academic editor (Impact factor 8)

[Editorial board - Engineering Applications of Artificial Intelligence | ScienceDirect.com by Elsevier](#)

knowledge-based engineering and sciences Journal: Editor in Chief

<https://kbes.journals.publicknowledgeproject.org/index.php/kbes/index>

7. Research statement “leadership”

Zaher Mundher Yaseen is an assistant professor and pioneer researcher in the field of civil and environmental engineering. During 2012-2017, Zaher has completed his master and PhD degrees at the National University of Malaysia which is ranked in the top 150 QS World Universities. Zaher is major in Environmental Science, Climate Engineering, Water Science, and Integrated Computer Aid Simulation Models. In addition, he has an essential interest in Artificial intelligence application, machine learning algorithms and advanced data analytics. Since 2014 up to date, he has published over 485 research articles ranked in in Web of Science (WoS), with a Google Scholar H-Index of 81, and over 21000 citations. Over 400 research articles are published in Quartile 1 WoS and more than 50% of his research output as the main author. As per the Publons website, he has served as a reviewer for more than 100 international academic journals.

Over the past decade, I have expanded my fields of research interest from water resources engineering, hydrology and environmental engineering to several other civil engineering branches including Geotech, urban planning, renewable energy related to climate change, physics and astronomy, and earth and planetary sciences. I learnt multiple abilities through those collaborations. I have worked with several well-established scholars all around the world including Prof. Miklas Scholz (UK), Prof. Nadhir Al-Ansari (Sweden), Prof. Bjørn Kløve (Finland), Prof. Vijay P. Singh (USA), Prof. Ozgur Kisi (Germany), Prof. Hossein Bonakdari & Prof. Jan Adamowski (Canada), Prof. Shamsuddin Shahid (Malaysia), Prof. Ravinesh C Deo (Australia), Prof. Sancho Salcedo-Sanz (Spain), Prof. Cyril Voyant (France), Prof. Ercan Kahya (Turkey), Prof. Ahmed MA Sattar (Egypt), Prof. Sungwon Kim (Korea), Prof. Hossam Faris (Jordan), Prof. K. W. Chau (Taiwan), Prof. Vahid Nourani (Iran), Prof. Kamal Ahmed (Pakistan), Prof. Pijush Samui (India), Prof Salim Heddami (Algeria), Prof. Ahmed El-Shafie (United Emirates), Prof. Saleh Awadh (Iraq), Leonardo Goliatt (Brazil) and several others. My collaborations proved my experience in innovative, industry-relevant and collaborative research.

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In developing research themes, it is essential to not only have an interest, but also be able to identify potential areas and research problems that are of interest to outside parties, because they may have an interest in funding the research. I work collaboratively with partners to identify issues, but remain as the person initiating, managing and sustaining the research. The collaborative skills that I have are an indication of the level of research achievement that I am capable of. Through research, I have developed writing skills, oral communication, team research, time management and programming. This has enabled me develop skills in a multidisciplinary domains under the umbrella of civil engineering, which are national priority areas. Thus, I am an "interdisciplinary researcher". This is of interest to several universities vision for strengthening their research. It also concurs with the proposed academic restructure for collaborative platforms to pursue the 'one university' research theme. These experiences have built my confidence and an interest in teaching as well.

With respect to the employment history, after my graduation from the National University of Malaysia in 2017. I have directly joined Ton Duc Thang University (TDTU) as a senior lecturer and researcher major in water and environmental sciences. During 2017-2020, I was fortunate to supervise two PhD candidates with water resources and environmental engineering. In parallel with my job at TDTU, I was able to get project fund at the Universiti Teknologi Malaysia, Malaysia. I have joined this project as research fellow post-doctoral. The project was focused mainly on the implementation of computed aid model presented in the form of machine learning models in simulating hydrological processes. The post was guided by Prof. Shamsuddin Shahid for 2 years (June-2018 & June-2020) and we were able to initiate excellent scientific research on the prospective of more informative vision for catchment sustainability and water resources management. March 2021 I have joined Asia University, Taiwan, and Al-Ayen University, Iraq as researcher. Starting from 2022 September I have joined King Fahd University as star faculty with title of Assistant Professor, the position up to date.

My research interests are very consistent with those of the targeted by many universities. I have extensive research and publications in multidisciplinary areas of hydrology, environment, geo-science, energy, climate and agricultural modelling, of which are the priority areas of many regions all around the globe. I am having discussions with several scholars to work in common issues in climate change and water resources engineering prospective. My water resources engineering research experience is in equivalence with those of the climate change/environmental modelling, coastal geomorphology, coastal hydrodynamics and soft computing modeler with whom I hope to, collaborate for future projects.

In terms of bringing external collaborations and research funds, I have associations with several academic scholars who are external advisors on a proposed project on different disciplines that will be submitted for grant. At present, I do have couple internal projects at KFUPM as principle investigator (PI) and CO-PI. IN addition, I am exploring options for engaging in teaching and learning project with the couple organizations and department to enhance student-learning experiences. My appointment on this continuing position will enable me to seek such collaborations with through internal and external grants and create research association with several of these academics and with others in the Engineering Academy and externally.

Without the support of local communities, business communities and professional associations, Universities would find it difficult to establish their relevance and importance. I am working to develop, enhance, and invest in linkages with such groups. Qualities that I possess that would help develop such relationships include networking skills; tact; listening skills; the ability to understand the importance of fostering such relationships; and an interest in developing such relationships through collaboration.

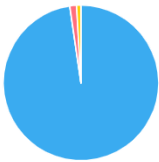
7.1 Expertise related to UN Sustainable Development Goals

In 2015, UN member states agreed to 17 global Sustainable Development Goals (SDGs) to end poverty, protect the planet and ensure prosperity for all. This person's work contributes towards the following SDG(s):

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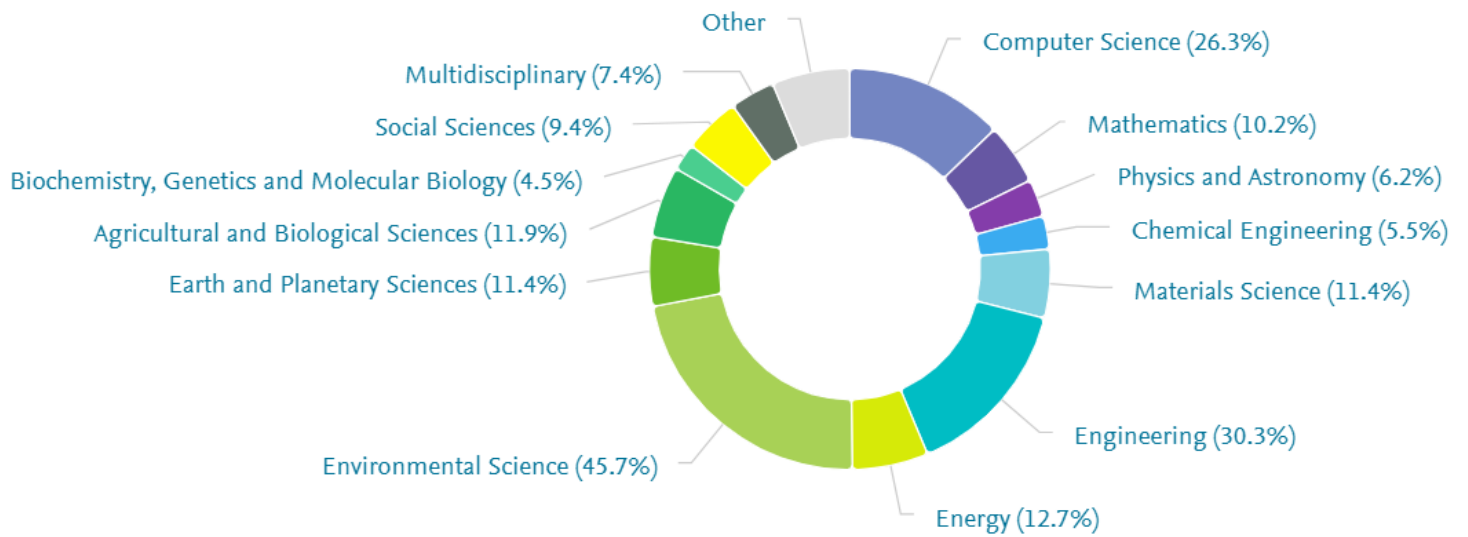
7.2 Geographical Collaboration



Metric		Scholarly Output	Citations	☐
■ International collaboration	97.6%	413	11,932	
■ Only national collaboration	0.0%	0	0	
■ Only institutional collaboration	1.4%	6	588	
■ Single authorship (no collaboration)	0.9%	4	187	

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7.3 Publication share by Subject Area



7.4 Global Collaboration Network



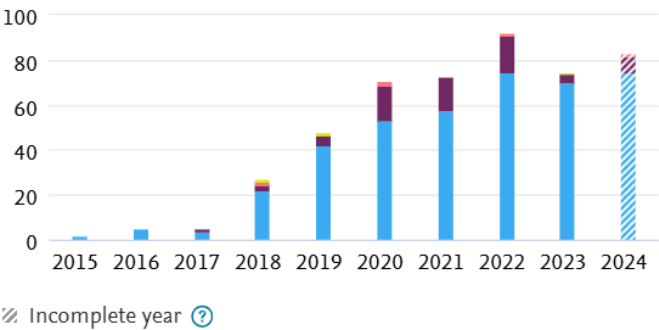
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7.5 Publications by Journal quartile

Journal quartiles

Metric guidance

Share of publications per Journal quartile by CiteScore Percentile



Quartiles	Publications	Publication share (%)
Q1 (top 25%)	406	84.4
Q2 (26% - 50%)	67	13.9
Q3 (51% - 75%)	5	1.0
Q4 (76% - 100%)	3	0.6
Cumulative shares	Publications	Publication share (%)
Q1 to Q2 (top 50%)	473	98.3
Q1 to Q3 (top 75%)	478	99.4

7.6 Publications by Institution

Top 10 institutional affiliations of Yaseen, Zaher Mundher, by number of publications

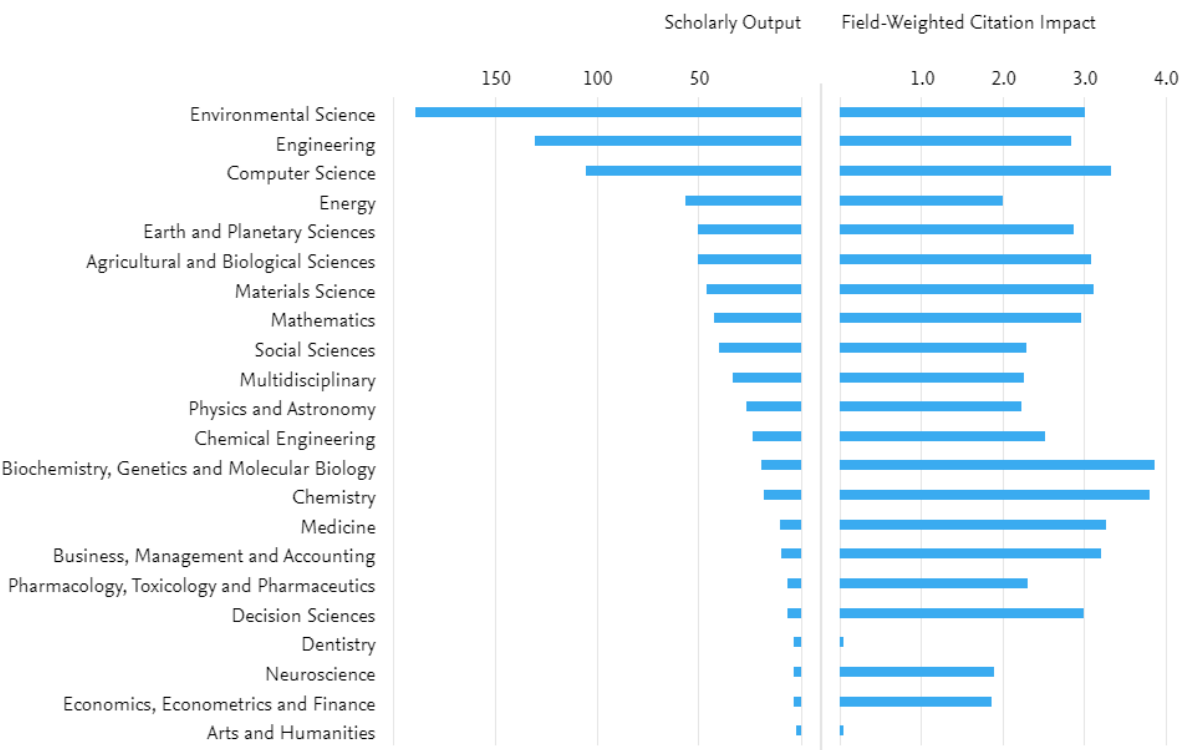
Institution	Scholarly Output	Citations	Citations per Publication	Field-Weighted Citation Impact
1. VNM Ton Duc Thang University	146	7,774	53.2	3.32
2. SAU King Fahd University of Petroleum and Minerals	126	661	5.2	2.40
3. IRQ Al-Ayen University	111	2,398	21.6	2.82
4. TWN Asia University Taiwan	40	919	23.0	3.04
5. AUS University of Southern Queensland	38	650	17.1	2.85
6. MYS Universiti Kebangsaan Malaysia	37	1,099	29.7	3.08
7. VNM Duy Tan University	28	843	30.1	2.49
8. RUS South Ural State University	20	305	15.2	3.41
9. MYS Universiti Teknologi MARA	12	191	15.9	2.51
10. IRQ University Of Anbar	5	645	129.0	6.49

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7.7 Publications by Authorship type

Authorship type	Scholarly Output	Authorship type share (%)	Citation Impact	Outputs in Top 10% Citat...
First author	29	6.9	4.22	20
Last author	290	68.6	2.59	140
Corresponding author	229	54.1	2.97	119
Co-author	60	14.2	3.12	30
Single author	4	0.9	5.93	3

7.8 Publications by Subject Area with FWCI





Highly Cited Researcher 2021

Presented to

Zaher Mundher Yaseen

In recognition of exceptional research performance demonstrated by production of multiple highly cited papers that rank in the top 1% for field and year in

Cross-Field



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Zaher Mundher Yaseen

For placing in the top 1% of reviewers in Environment and Ecology on Publons global reviewer database determined by the number of peer review reports performed during the 2018-19 award year.

The Top Peer Reviewer Award is part of the Global Peer Review Awards – honoring the elite contributions to scholarly peer review and editorial pursuits internationally.



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Signed Annette Thomas, CEO, Web of Science Group

Date 17 September 2019



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8. RESEARCH MENTORING AND FACILITIES

Throughout my career, I have had very good informal and mutual mentoring opportunities, with mentors who, like me, have been central figures in ambitious transformative research. At first, it was from my main supervisor during my Master's and PhD degrees—Prof. Ahmed El-Shafie, who is a full professor at the University of Malaysia, ranked 65 worldwide (QS World University Rankings 2022). Prof. Ahmed was an inspiring guide to me during my early academic journey. He taught me numerous skills on catchment hydrology sustainability and monitoring using the advanced technology of machine learning models. In 2016, I began collaborating with Prof. Ravinesh C. Deo from the University of Southern Queensland, Australia, who has been a particularly important mentor to me. He has guided me not only by mentoring my research discipline, but in the deeper perspective of how to sustain a highly productive and influential career. I also continue to receive ongoing mentorship from several distinguished worldwide professors such as Prof. Vijay P Singh from Texas A&M University, USA, drawing on his expertise within hydrology and climate research. I was extraordinarily fortunate to join a postdoctoral position at UTM, Malaysia, under the supervision of Prof. Shamsuddin Shahid. He is one of the excellent scientists in the domain of climate and environmental engineering. From him, I have learnt many ideas on climate data analysis and the influence of climate change, and we have been working on diverse environmental engineering problems to date. Moreover, Prof. Ozgur Kisi from ISU, Georgia, was another brilliant mentor to me, who provided me with plenty of innovative ideas on the implementation of soft computing as an emerging technology for solving hydrological and environmental issues. I feel very fortunate to have benefited from such a culture of engagement and impact at the start of my academic career.

10. RESEARCH ACHIEVEMENTS AND CONTRIBUTIONS

From 2016 to present, I have established an international collaboration network. We have focused on developing robust computer-aided models for several environmental, climate, and water-related problems. Using the data available from sources such as monitoring stations and satellites, we have been able to study several related issues and deliver essential findings to better understand the problems within the water and environment domain. The findings are wide-ranging, such as the effects of climate change, proposing sustainable strategies for water resource management, identifying contaminated surface water spots, soil contamination evaluation, and others.

To date, in my career, I have authored one edited book, five book chapters, 240 refereed journal papers, and two refereed conference papers. This mix of outputs is a very deliberate strategy of building multiple paths of impact. I use peer-reviewed publications to advance the international discipline of water resource and environmental engineering, while I use reports to inform and impact policy and practice, such as on expected flooded areas, soil contamination, surface water quality evaluation, and weather air pollution.

My research output has increased significantly, particularly in 2021. I have a total of 246 peer-reviewed publications: 2015 (two publications), 2016 (five publications), 2017 (five publications), 2018 (28 publications), 2019 (48 publications), 2020 (27 publications), and 2021 (82 publications). Of these, 198 publications are in Q1 journals. This exponential productivity represents, of course, not only my own effort, but those of the collaborations and teams I have built around me, i.e., a team of researchers from over 40 countries with 450 co-authors as per the Scopus website.

I have published in the most influential journals in my field. For example, I have published 20 papers in *the Journal of Hydrology* (5.7 Impact Factor), ranked as the third journal based on H-index (out of 221) journals in the Water Science and Technology Category (Scopus). Also, I have published a further 11 papers in *Water Resources Management Journal* (3.5 Impact Factor), ranked 21/221 based on H-index,

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and nine papers in *Environmental Science and Pollution Research*, ranked 17/125 based on H-index. In the period 2015–2021, 83% of my publications were in Q1 journals.

My work is spread across environmental/civil engineering and environmental science/ecology, and there are differences in publication norms between these disciplines. I have 23.7% of my publications in the environmental engineering field, followed by 16.4% in the engineering domain. As most of the research outputs were on the implementation of computer-aided models, the percentage for computer science is 12.9%. The remainder, such as biochemistry, agriculture, ecology, earth, and planetary, range between 3% and 7%. In water resource engineering, there has been, throughout my career, a strong focus on journal publication. I work in an emerging discipline within the field of environmental engineering, and credibility within the field is achieved through journal publications. During 2021, the focus was mostly on Q1 journals with high impact factors reporting high-quality research.

I am among the list of Highly Cited Researchers 2021, as per Clarivate Analytics for the top 1% of scholars globally. My publications list is characterized by its very high level of collaboration; the vast majority of my publications have multiple authors, reflecting my preference to construct teams where there is a shared endeavor and capacity-building through mentoring and complementarity of skills. In my discipline, the view of authorship order has varied over time, with those leading the team/project generally appearing early in the author list; in more recent times (since around 2018), there has been a move toward the leader being placed last in the list of authors. My own philosophy—consistent with my view that developing the careers of my team members is among my most important responsibilities—has been to encourage my colleagues, particularly those early in careers, to take a leading role in authorship.

As per the SciVal website, I have 230 publications with a H-index of 41, 4689 total citations, and a 3.69 field-weighted citation impact. The predominant subject area is environmental science, with a total of 2668 citations and a field-weighted citation impact (FWCI) of 3.78, and this was followed by the subcategories: Water science and technology (citations = 2143; FWCI = 4.11); environmental chemistry (citations = 282; FWCI = 3.1); pollution (citations = 256; FWCI = 5.04); management, monitoring, and policy law (citations = 154; FWCI = 2.07); general environmental science (citations = 185; FWCI = 1.98); health, toxicology, and mutagenesis (citations = 167; FWCI = 4.2); environmental engineering (citations = 185; FWCI = 3.6). The other indicated research topics are: Soil color, soil organic matter, and hyperspectral (FWCI = 14.08); carbonate rocks, flow in porous media, and microanalytical model (FWCI = 8.55); stream flow, flood forecasting, and water tables (FWCI = 4.48); environmental modeling (FWCI = 3.2); droughts, evapotranspiration, and river basins (FWCI = 3.66); downscaling, CMIP, and regional climate (FWCI = 8.29); water quality, total dissolved solids, and fecal bacterium (FWCI = 1.49); lake ice, surface water temperature, and hypolimnion (FWCI = 5.34). Some important statistics about my publications are reported in the graphical theme abstracted from the SciVal website and presented herewith.

In 2020, “Intelligent data analytics for decision-support systems in hazard mitigation: Theory and practice of hazard mitigation” was published by Springer with editors including Ravinesh Deo (H-index = 44), Ozgur Kisi (H-index = 68), and Pijush Samui (H-index = 29). This was an important contribution that reported all of the computer-aided models that contributed to solving climate-related and environmental issues. I contributed to the first chapter of this book, which was “Drought Index Prediction Using Data Intelligent Analytic Models: A Review.”

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11. RESEARCH SUPERVISION, MENTORING, AND ADVICE

During 2017–2020, I supervised two PhD candidates (Suraj Kumar Bhagat and Tiyaasha Tiyaasha) at TDTU, which has a very genuinely supportive and encouraging culture. Both candidates worked on environmental engineering research. Suraj was focused on modeling the heavy metal of the Australian Bays, and Tiyaasha worked on modeling surface water quality within the tropical region of Malaysia. With my guidance and mentoring, Suraj published six research articles within the main scope of his research thesis and all in Q1 Web of Science journals. Tiyaasha also made excellent progress, and four research articles were published from her thesis.

Suraj focused on studying the existence of heavy metals in two different bays (i.e., Bramble and Deception, Australia). Different elements of heavy metals were qualified using the potential of a new version of machine learning known as the SuperLearning approach. The practicability of the proposed modeling scheme is the workability with a limited dataset, training the model using the nearby station dataset employing the feature of “learning transfer,” classifying the degree of contamination that will be highly beneficial for environmental decision-makers and experts.

Tiyaasha worked on regional and specific sites for surface water quality assessment, focusing a case study within tropical environment, namely, the Klang River Basin, Malaysia. The adopted modeling framework was established using the newly explored deep learning model. The research focused on classifying the water quality index, determining the dissolved oxygen concentration, identifying the essential predictors for the prediction matrix, and developing a reliable technology that can be beneficial for environmental engineering assessment for surface water quality.

Both PhD candidates were able to produce remarkable scientific research in collaboration with several countries and distinguished scientists globally, including Prof. Vijay Pal Singh from the USA (H-index = 85), Prof. Ravinesh C. Deo from Australia (H-index = 44), Ozgur Kisi from Georgia (H-index = 68), Shamsuddin Shahid from Malaysia (H-index = 45), Pijush Samui from India (H-index = 29), Nadhir Al-Ansari from Sweden (H-index = 26), Prof. Ali Jawad from Malaysia (H-index = 33), Ahmed Ewees from Egypt (H-index = 27), Bahram Choubin from Iran (H-index = 25), and Sinan Salih from Iraq (H-index = 20). All of the research was focused on investigating diverse water science and climate-related research. The collaborations were extremely productive, resulting in publications in prestigious journals such as *Marine Pollution Bulletin* (Q1-5.5 IF), *Chemosphere* (Q1-7 IF), *Environmental Pollution* (Q1-8 IF), *Journal of Hazardous Materials* (Q1-10.5 IF), *Engineering Applications of Computational Fluid Mechanics* (Q1-8.9 IF), *Ecotoxicology and Environmental Safety* (Q1-6.2 IF), *Journal of Hydrology* (Q1-5.7 IF), *Computers and Electronics in Agriculture* (Q1-5.5 IF), *Environmental Science and Pollution Research* (Q1-4.2 IF), and *Scientific Reports* (Q1-4.3 IF). Both candidates were able to conduct review research: “A survey on river water quality modeling using artificial intelligence models: 2000–2020” in the *Journal of Hydrology* with more than 120 citations in Google Scholar, and “Development of artificial intelligence for modeling wastewater heavy metal removal: State of the art, application assessment and possible future research” in the *Journal of Cleaner Production* with more than 50 citations in Google Scholar.

12. Supervised PhD students:

Tiyaasha Tiyaasha: **TDTU Uni Vietnam**

Thesis title: Surface water quality simulation using the feasibility of computer aid: Case study Klang catchment.

Suraj Kumar Bhagat: **TDTU Uni Vietnam**

Thesis title: Heavy metal detection, monitoring and assessment at the Australian Bays

MOHAMMED MAJEED HAMEED: **UKM Malaysia**

Thesis Title: Drought prediction and detection within arid and tropical regions: Federated Learning technology

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KHALDOON TALIB FALIH **UKM Malaysia**

Thesis title: Petroleum contamination for soil and atmosphere: An evaluation study for the south region of Iraq.

Khalid Hardan Mhana: **UNITEN Malaysia**

Thesis title: Environmental impact assessment of transportation and land alteration using Earth observational datasets

ZIAUL HAQ DOOST: **KFUPM Saudi**

Thesis title: The Impact of Land Use and Land Cover on Groundwater Fluctuations: Application of Remote Sensing and Geographical Information System Feasibility

MEHVISH BILAL: **KFUPM Saudi**

Thesis title: Coastal water quality modeling and assessment

13. Reference

- i. **Ravinesh Deo:** University of Southern Queensland, **Australia** (+61734704430) Email: ravinesh.deo@usq.edu.au
- ii. **Ozgur kisi:** Ilia State University, **Georgia**, (+995555729840) Email: ozgur.kisi@th-luebeck.de
- iii. **Shamsuddin Shahid:** Universiti Teknologi Malaysia, Malaysia, (+60182051586) Email: sshahid@utm.my
- iv. **Aitazaz A. Farooque:** Professor & Associate Dean, University of Prince Edward Island, Canada, (+1 (902) 305-4041) Email: afarooque@upei.ca

14. Publications

International Impacted journals

1. Tao, H., Aldlemy, M. S., Saad, M. A., Yeap, S. P., Oudah, A. Y., Alawi, O. A., ... & Deo, R. C. (2025). Intelligent modeling and analysis of hybrid organic Rankine plants: Data-driven insights into thermodynamic efficiency and economic viability. *Engineering Applications of Artificial Intelligence*, 143, 109946.
2. Ahmad, R., Abdul Maulud, K. N., Bin Zamir, U., Mohd Razali, S. F., Yaseen, Z. M., Pradhan, B., ... & Eshquvvatov, B. (2025). A systematic literature review of digital elevation models and hydrological models integration for advanced flood risk management. *Geomatics, Natural Hazards and Risk*, 16(1), 2549487.
3. Ahmed, M. F., Halder, B., Juneng, L., Farooque, A. A., & Yaseen, Z. M. (2025). Remote sensing-based shoreline change investigation in Klang Coast and Langkawi Island towards sustainable coastal management. *Geomatics, Natural Hazards and Risk*, 16(1), 2493226.
4. Fouchal, A., Merabet, K., Kisi, O., Di Nunno, F., Granata, F., Kim, S., ... & Yaseen, Z. M. (2025). Modeling Coagulant Dosage in Water Treatment Plant Using Explainable Deep Learning Model-Based SHapley Additive exPlanations (SHAP). *Water Conservation Science and Engineering*, 10(3), 109.
5. Ervilha, R., Campos, D., da Silva Macêdo, B., Bertuol, D. A., Tanabe, E. H., Yaseen, Z. M., ... & Goliatt, L. (2025). Bayesian optimization-guided machine learning models for bio-oil yield prediction from lignocellulosic biomass pyrolysis. *Biomass and Bioenergy*, 203, 108280.
6. Homod, R. Z., Mohammed, H. I., Dhaidan, N. S., Albahri, A. S., Al-Mousawi, F. N., Togun, H., ... & Yaseen, Z. M. (2025). Dynamic Predicted Mean Vote/Predicted Percentage of Dissatisfied Prediction Using Lagrangian-Driven Deep Clustering and Reinforcement Learning for HVAC Energy Optimization. *ASME Journal of Engineering for Sustainable Buildings and Cities*, 6(4), 041002.
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