


Resume

Assist. Professor Dr. Meisam Tabatabaei

PERSONAL DETAILS		DOB: 1979 (Age: 39) Iranian																		
Address: Biofuel Research Team (BRTeam) Agricultural Biotechnology Research Institute of Iran (ABRII) P. O. Box: 31535-1897 Fahmideh Blvd., Karaj, Iran																				
Language Qualifications: <ul style="list-style-type: none">- English (Fluent: IELTS: 7.5 with all bands above 7.0)- Persian (Native Fluent)- French (Intermediate)- Malay (Intermediate)- Simultaneous Interpretation Diploma (Farsi-English & Visa Versa)																				
Work Telephone: +98 26 3270 3536 Mobile phone/WhatsApp: +98 913 286 5342		Emails: meisam_tab@yahoo.com meisam_tabatabaei@abrii.ac.ir meisam.tabatabaei@gmail.com																		
Academic/Professional Qualifications <ul style="list-style-type: none">- PhD in Environmental Biotechnology University Putra Malaysia (UPM) 2009 (PhD was awarded by UPM in the framework of a Japanese Society for Promotion of Science (JSPS)-sponsored research project. Some parts of the research were conducted in Kyushu Institute of Technology (KIT) and Kyushu University, Japan). (CGPA: 3.912) <p><i>Clarivate Analytics Highly Cited Researcher in Engineering Since 2017</i></p> <ul style="list-style-type: none">- h-index: 37 ; i-10 Index: 108 (http://scholar.google.com/citations?user=7J3mlw4AAAAJ&hl=en&oi=ao) 																				
<table border="1"><thead><tr><th>Number of Articles</th><th>Citations</th><th>h-index</th><th>G-index</th><th>Citation/Article</th><th>Source</th></tr></thead><tbody><tr><td>165</td><td>3207</td><td>28</td><td>49</td><td>19.43</td><td>Scopus</td></tr><tr><td>222</td><td>4682</td><td>37</td><td>60</td><td>21.05</td><td>Scholar</td></tr></tbody></table>	Number of Articles	Citations	h-index	G-index	Citation/Article	Source	165	3207	28	49	19.43	Scopus	222	4682	37	60	21.05	Scholar		
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165	3207	28	49	19.43	Scopus															
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<ul style="list-style-type: none">- Editor-in-Chief; Biofuel Research Journal- Advisory Board Member; MethodsX (Elsevier)- Editorial Board Member; Data in Brief (Elsevier)- Editorial Board Member; International Journal of Life Cycle Assessment (Springer) (Impact Factor: 4.195)																				

- **Editorial Advisory Board; Bioethanol** (<https://www.degruyter.com/view/j/bioeth>)
- Lead Guest Editor for *BioMed Research International* (IF:2.7), 2014.
- Hold 1 US Patent ([Pub. No.: US 2014/0051847 A1](#)).
- Holds 6 Patents in the field of Renewable Energy.
- Founding Team Leader of [Biofuel Research Team \(BRTeam\)](#)
Founding Chief Coordinator of Extension Group of Environmentalists (EGE)
- Coordinator of GEF/UNDP sponsored projects (2012 - on going).
- Attracted above USD 500,000 in research/extension grants (USD 100,000 from UNDP).
- Won 2 Gold Medals in the Invention & New Product Exposition (INPEX), the largest invention trade show in America. INPEX 2012 was held in Pittsburg, Pennsylvania, USA.
INPEX® 2012 Gold Medal- Diesel⁵⁺ Fuel Additive
INPEX® 2012 Gold Medal- Pro Spinning Tube in Tube (Pro-STT) Reactor for the Production of Biodiesel and Glycerin
- Won the Bronze Medal in the PECIPTA 2009 (International Exposition of Research and Invention of Institutions of Higher Learning, Malaysia, 2009).
- Won 2 Gold Medals in the Invention, Research, and Innovation Exhibition, Malaysia (PRPI 2009).
- Led the First National Project on urban application of waste-oriented biofuels, entitled: "The First Pilot Utilization of Waste Cooking Oil Biodiesel in a Bus Fleet in Iran with an Aim to Reduce Air Pollution and Boost Public Health".

This was a part of the comprehensive efforts devoted to the large-scale introduction of waste-oriented biofuels to the Iranian Energy Market as an effective solution to protect the environment and boost public health. The project was supported by the Vice Presidency for Science and Technology of I.R. Iran, Iranian Biofuels Society (IBS), and Tehran Bus Company (A Subsidiary of Tehran Municipality).

Teaching and Supervising Qualifications: (Teaching Interests)

Teaching (including course syllabus design & preparation):

- Have been lecturing "**Fuel and Mining Biotechnology**" & "**Environmental Biotechnology**" in the Faculty of Science, University of Tehran (*Post Graduate Courses: MSc*) (2012 - on going)
- Have been lecturing "**Fuel Biotechnology**", "**Fossil fuels, Biomass and Catalysis**" & "**Renewable Energies**" in Lebanese University (*Post Graduate Courses: MSc*) (2012- 2015)
- Have been lecturing "**Advanced Research Methodology**" and "**Academic Writing**" in the Faculty of Science, University of Tehran (*Post Graduate Courses: MSc & PhD*) (2014- 2016)
- Have lectured in many workshops on "**Climate Change and Public Health**" & "**Life Cycle Assessment**" in different universities and research institutes.
- Have taught intensive courses on "**Scientific Papers & Dissertations Writing**" organized by the University Technology Mara (UiTM) (*Post Graduate Courses: MSc & PhD*) (2013- on going)

Supervision:

- Supervised/supervising 37 post-graduate students (M.Sc. and PhD) and Postdoc (Since 2010):

MSc:

Supervision:

- 1- Pouya Mohammadi (MSc)- Supervisor (Status: Graduated, 2010)
- 2- Meisam Hasheminejad (2-Year Training Program)- Supervisor (Status: Graduated 2010)
- 3- Mehdi Hosseini (MSc)- Supervisor (Status: Graduated, 2012)
- 4- Sohrab Haghghi Mood (MSc)- Supervisor (Status: Graduated, 2012)
- 5- Amir Golafshan (MSc)- Supervisor (Status: Graduated, 2012)
- 6- Hadi Rahimzadeh (MSc)- Supervisor (Status: Graduated, 2013)
- 7- Afifa Nouredin (MSc)- Supervisor (Status: Graduated, 2013)
- 8- Rana Jaber (MSc)- Supervisor (Status: Graduated, 2013)
- 9- Shima Azizabadi Farahani (MSc)- Supervisor (Status: Graduated, 2014)
- 10- Somayeh Satari (MSc)- Supervisor (Status: Graduated, 2014)
- 11- Morteza Reisi (MSc)- Supervisor (Status: Graduated, 2015)
- 12- Ali Dadak (MSc)- Supervisor (Status: Graduated, 2016)
- 13- Seyed Sina Hosseini (MSc)- Supervisor (Status: Graduated, 2016)
- 14- Mojgan Hadian (MSc)- Supervisor (Status: Graduated, 2016)
- 15- Nafiseh Mohsenabadi (MSc)- Supervisor (Status: Graduated, 2016)
- 16- Maryam Abdollahi (MSc)- Supervisor (Status: Graduated, 2017)
- 17- Majid Atarian (MSc)- Supervisor (Status: Graduated, 2017)
- 18- Elnaz Hosseini (MSc)- Supervisor (Status: Graduated, 2017)
- 19- Nayere Shahbazi (MSc)- Supervisor (Status: Graduated, 2017)

- 20- Meisam Molaei (MSc)- Supervisor (Status: On-going)

Co-Supervision:

- 21- Azita Javani (MSc)- Co-supervisor (Status: Graduated, 2010)
- 22- Fatemeh Rad (MSc)- Co-supervisor (Status: Graduated, 2010)
- 23- Navid Pourvosoughi (MSc)- Co-supervisor (Status: Graduated, 2012)
- 24- Masoomeh Hajari (MSc)- Co-Supervisor (Status: Graduated, 2013)
- 25- Reza Azadbakht (MSc)- Co-Supervisor (Status: Graduated, 2013)

PhD:

Supervision:

- 26- Mohammad Ali Rajaeifar (PhD)- Supervisor (Status: Graduated, 2017)
- 27- Ismail Khalifeh (PhD)- Supervisor (Status: Graduated, 2017)
- 28- Rozita Madadi (PhD)- Supervisor (Status: Graduated, 2017)
- 29- Hakimeh Sharafi (PhD)- Supervisor (Status: Graduated, 2019)
- 30- Benyamin Khosnevisan (PhD)- Supervisor (Status: Graduated, 2019)

- 31- Homa Hosseinzadeh-Bandbafha (PhD)- Supervisor (Status: On-going)
- 32- Sama Amid (PhD)- Supervisor (Status: On-going)
- 33- Zahra Khounani (PhD)- Supervisor (Status: On-going)
- 34- Sina Faizollahzadeh Ardabili (PhD)- Supervisor (Status: On-going)

Co-Supervision:

- 35- Farhad Talebi (PhD)- Co-supervisor (Status: Graduated, 2014)
- 36- Marzieh Akhavan (PhD)- Co-Supervisor (Status: Graduated, 2017)

Postdoc Supervision:

- 37- Dr. Taha Roodbar Shojaei (2018-2019)

Grants and Funding (Chair)

- Production of Biodiesel as a Replacement for Fossil Fuels. 2010–2014. Fund approved and awarded by AREEO: USD 190,000
- Advanced Nanosystems. 2010-2013: Fund approved and awarded by National Nanotechnology Council: USD 130,000
- Pretreatment of Lignocellulosic Wastes for Bioethanol Production. 2010- 2012: Fund approved and awarded by AREEO: USD 36,000
- Establishment of the regional site for practical training of sustainable management of waste cooking oil for the production of biodiesel as a model in megacities. 2012- 2013: Fund approved and awarded by United Nation Development Program (UNDP): USD 40,000
(https://sgp.undp.org/index.php?option=com_sggprojects&view=projectdetail&id=18910&Itemid=205)
- Production of household Reactor for Biodiesel Production from Waste Cooking Oil. 2014. Fund approved and awarded by United Nation Development Program (UNDP): USD 5,000
- The first pilot utilization of waste cooking oil biodiesel in a bus fleet in Iran with an aim to reduce air pollution and boost public health. 2016-2017. Multiple Funding by Vice Presidency for Science and Technology of Iran, Iranian Biofuel Society, and Tehran Bus Company: USD 100,000.
- Establishment of a 400 L/day pilot biorefinery for sustainable management of waste cooking oil for biodiesel production in order to be used in public transport fleet as a model in mega cities. 2018-2019. Fund approved and awarded by United Nation Development Program (UNDP): USD 41,000
- Boosting public transport health benefits pilot project. 2018-2019. Multiple Funding by Vice Presidency for Science and Technology of Iran, Iranian Biofuel Society, and Tehran Bus Company, Iran Kish Credit Card Co.: USD 100,000

(Collaborator)

- Biodiesel production from vegetable oil recovered from spent bleaching earth. 2010- 2011. Fund approved and awarded by Iran National Science Foundation (INSF): USD 10,000
- Improvement of Palm Oil Industry through Oil Recovery from Wastes towards Achieving Zero Waste Strategy. 2012-2016. Fund approved and awarded by the Malaysian government: USD 330,000.

Current Positions:

1- Assistant Professor

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P. O. Box: 31535-1897
Mahdasht Road, Karaj, Iran
Phone: +98 261 2703536 (Ext. 216)
Fax: +98 261 2704539

In charge of defining research projects, writing grant proposals, supervising research projects being conducted in the framework of graduate MSc and PhD research theses. During the last eight years, I have supervised over 30 graduate (MSc. and PhD) students and have managed to receive above USD 500,000 in research/extension grants.

2- Lead Collaborator - *The Lancet Countdown: Tracking Progress on Health and Climate Change (since September 2016)*

Actively working on the links between climate change and public health. Contributions are published in **The Lancet (Impact Factor: 53.254)**. My first contribution as co-author was published in *The Lancet* on 31 October 2017: [http://www.thelancet.com/journals/lancet/article/PIIS0140-6736\(17\)32464-9/abstract](http://www.thelancet.com/journals/lancet/article/PIIS0140-6736(17)32464-9/abstract) while the second contribution was published on 29 November 2018: <https://www.sciencedirect.com/science/article/pii/S0140673618325947#!>

3- Chief Coordinator of Extension Group of Environmentalists (EGE)

EGE is an NGO aimed at philanthropic activities related to environmental preservation and public health and the organization is accredited by the United Nation Development Program (UNDP). As the founding Chief Coordinator of EGE, I have been actively engaged with "System Thinking"- and "Knowledge to practice"-based activities/projects. Elevating public health through more efficient waste management, waste conversion into eco-friendly fuels and promoting their utilization have been among the main activities. My role has been ensuring core processes associated with planning, network development, and grant management, trying to provide opportunities for further engagement of academics,

government authorities, funders, and volunteers in the NGO's activities/programs. I have also been actively campaigning against recycling potentially hazardous materials back into food/feed life cycles. Generating public awareness on the various aspects of waste management, renewable energies, environmental preservation, climate change, and public health while denouncing the widespread utilization of fossil fuels has been an indispensable part of my activities in EGE.

4- Editor-in-Chief of Biofuel Research Journal (2014- on going)

Biofuel Research Journal (BRJ) (ISSN: 2292-8782)
Green Wave Publishing of Canada
175 King Street East, Apt #1
Saint John, New Brunswick, Canada
Postal Code: E2L 1G9
Email: editorial@biofueljournal.com

*Biofuel Research Journal (BRJ) is an **SCOPUS & WCO-indexed journal** with completely Free-of-Charge publication policy. BRJ publishes original articles, review articles, case studies, and short communications on the fundamentals, applications, processing, and management of biofuel research and technologies including environmental and sustainability assessments. As the founding EIC, I handle the supervision of the workflow in the journal as well as maintaining a close contact with the Intl. Advisory Board members and Editorial Board members.*

5- President- Biofuels Committee (2014- on going)

National Biotechnology Initiative Council
Vice Presidency for Science and Technology
Molla Sadra St., Sheikh Bahaei Shomali St.

Advising the Biotechnology Initiative Council on national strategies to be implemented based on biofuels production and utilization as well as on planning and executing national pilot projects to reduce air pollution, protect the environment, and boost public health using alternative fuels . The Committee consists of experts and internationally-recognized scholars in the fields renewable fuels, transportation sector, automotive Industry, climate change, and public health .

6- President- National ISO TC 248 SC7 Committee on Liquid Biofuels (2014- on going)

Iranian National Standards Organization
Vanak Sq.
Tehran, Iran

Drafting, amending and finalizing national standards on liquid biofuels. So far, I have led drafting and ratification of the national standard on B100 fuel, the national standard on E1-E10 fuel and the national standard on Pyrolysis Liquid Fuel.

7- Invited Lecturer (2012- on going)

- **University of Tehran**
Faculty of Science, Tehran University
Engelab Avenue
Tehran, Iran

Courses: "Fuel and Mining Biotechnology", "Environmental Biotechnology", "Advanced Research Methodology" and "Academic Writing".

- **Lebanese University**
Faculty of Agricultural Engineering and Veterinary Medicine
Lebanese University, Beirut, Lebanon

Courses: "Fuel Biotechnology" and "Fossil fuels, Biomass and Catalysis", "Renewable Energies".

8- Consultant; The DOR Foundation (Liechtenstein)

Since 2017, I have been working closely with The DOR Foundation (Liechtenstein) as [Consultant](#). The DOR Foundation is behind the DORIUM economy aimed at creating, rewarding, and financing social economic impacts. DORIUM's mission is to improve the lives of billions of people through SoBz, its cryptocurrency, created to fight poverty, inequality, and environmental pollutions. High profile, internationally recolonized personalities/centers such Yunus Center founded by Professor Muhammad Yunus, Nobel Peace Prize laureate, are among the DORIUM associates.

9- Radio Anchor; Javan Radion Channel

I started radio anchoring in 2012 and have anchored around 1000 programs ever since. I am currently having a weekly radio program named "**Again a Blue Sky**" broadcast on the most celebrated national radio channel "Javan" with an estimated audience size of 10 million people. *Again a Blue Sky* is concerned with our once blue sky turned gray through unsustainable development and tries to generate public awareness on the devastating side effects of fossil fuels (coal, diesel, etc.) utilization including adverse effects on public health and the environments, global warming, and climate change, while promoting renewable energies as replacement. All my media activities have been honorary.

On-going Projects related to Climate Change and Public Health:

1- Impacts of Climate Change on Marine Primary Production and Under-Nutrition

Working Group 1 Lancet Countdown: Climate Change Impacts, Exposures and Vulnerability (Indicator: 1.9.2: Marine food security and under-nutrition)

I am the Lead Collaborator in charge of this indicator working closely with a team of experts from different disciplines to monitor and annually report on the impacts of climate change on marine primary production and the resultant health outcomes.

Collaborators: Maziar Moradi-Lakeh (Iran University of Medical Sciences); Fereidoon Owfi and Mahnaz Rabbaniha (Iranian Fisheries Science Research Institute)

2- Healthy Air in Iran: Reforming Fossil Fuel Subsidies (HAIReFFS)

This collaborative research projects looks into the health impacts of heavy fossil fuels subsidies in Iran and the potential benefits of reforms.

Collaborators: Maziar Moradi-Lakeh, Abbas Motevalian, Reza Khatibi, and Majid Kermani (Iran University of Medical Sciences); Paul Ekins and Tim Colbourn (UCL Institute for Sustainable Resources); Hugh Montgomery (UCL Division of Medicine), Mohammad Karimi (University of Washington Tacoma)

3- Health Co-benefits of Half-century Old Mitigations Strategies in Iran`s Primary Electricity Generation Sector

This collaborative research projects reviews and investigate fuel consumption profile of the Iran`s primary electricity generation sector over the last 50 years and the mitigation strategies performed in this sector while trying to discover the associated health aspects retrospectively and prospectively.

Collaborators: Maziar Moradi-Lakeh, Abbas Motevalian, Reza Khatibi, and Majid Kermani (Iran University of Medical Sciences); Mohammad Ali Rajaeifar (Biofuel Research Team); Mohammad Karimi (University of Washington Tacoma); Nick Watts (The Lancet Countdown); Hugh Montgomery (UCL Division of Medicine)

4- Sustainable Urbanization: Efficient Waste Management & Healthy Public Transport

This pilot scale project is aimed at preventing the recycling of hazardous wastes (i.e., waste vegetable oils and animal fats) into feed/food cycles and instead directing them to biofuel production cycle followed by their utilization in the public transport sector. Health and environmental benefits arising from the implementation of the defined strategies are comprehensively investigated. There are two projects being conducted on this platform:

- Establishment of a 400 L/day pilot biorefinery for sustainable management of waste cooking oil for biodiesel production in order to be used in public transport fleet as a model in mega cities.
- Boosting public transport health benefits pilot project.

Reviewer for Journals (Selected List)

1. *Applied Energy*
2. *Atmospheric Pollution Research*
3. *Biofuels*
4. *Biofuels, Bioproducts & Biorefining*
5. *Biomass and Bioenergy*
6. *BioResources*
7. *Bioresource Technology*
8. *Biotechnology Advances*
9. *Biotechnology & Bioprocess Engineering*
10. *Chemistry and Ecology*
11. *Chemical Engineering and Technology*
12. *Chemical Engineering Research and Design*
13. *Chemosphere*
14. *Clean Soil, Air, Water*
15. *Desalination and Water Treatment*
16. *Ecological Engineering*
17. *Energy*
18. *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*
19. *Energy Conversion and Management*
20. *Energy & Fuels*
21. *Environmental Technology*
22. *Environmental Engineering and Management Journal*
23. *Fuel*
24. *Fuel Processing Technology*
25. *Greenhouse Gases Science and Technology*
26. *Green Processing and Synthesis*
27. *Industrial & Engineering Chemistry Research*
28. *International Journal of Energy Research*
29. *International Journal of Green Energy*
30. *International Journal of Hydrogen Energy*
31. *Journal of Bioscience and Bioengineering*
32. *Journal of Cleaner Production*
33. *Journal of Environmental Management*
34. *Journal of Industrial and Engineering Chemistry*
35. *Journal of Renewable and Sustainable Energy*
36. *Journal of Testing and Evaluation (ASTM)*
37. *Journal of the Energy Institute*
38. *Industrial & Engineering Chemistry Research*
39. *Low Carbon Economy*
40. *Management of Environmental Quality*
41. *Process Biochemistry*
42. *Renewable and Sustainable Energy Reviews*
43. *Renewable Energy*
44. *Resource Efficient Technologies*
45. *Resources, Conversion & Recycling*
46. *Waste and Biomass Valorization*
47. *Waste Management*

List of Publications (*Meisam Tabatabaei*); September 2018:

Number of Articles	Citations	h-index	G-index	Citation/Article	Source
165	3207	28	49	19.43	Scopus
http://scholar.google.com/citations?user=7J3mlw4AAAAJ&hl=en&oi=ao					
222	4682	37	60	21.05	Scholar
https://www.scopus.com/authid/detail.uri?authorId=26639886700					

Books:

Biogas: Fundamentals, Process, and Operation

Editors: Hossein Ghanavati & Meisam Tabatabaei

Publisher: **Springer-Nature (2018)**

Contract No.: 61102

<https://www.springer.com/gp/book/9783319773346>

Biodiesel: from Production to Combustion

Editors: Meisam Tabatabaei & Mortaza Aghbashlo

Publisher: **Springer-Nature (2018)**

Contract No.: 61743

<https://www.springer.com/us/book/9783030009847>

Book Chapters:

1. **Meisam Tabatabaei**, Alawi Sulaiman, Ali Mohammad Nikbakht, Norjan Yousef, and Ghasem Najafpour. **2011. Influential Parameters on Biomethane Generation in Anaerobic Wastewater Treatment Plants.** In [Alternative Fuel](#), Book edited by Maximino Manzanera, ISBN: 978-953-307-347-7 (**INTECH, Croatia**).
2. Mohammad M. A. Shirazi, **Meisam Tabatabaei**. **2014. Green Energy.** In [Energy Science and Technology \(Vol. 1\)](#), Book edited by U.C. Sharma, Shiva Kumar and Ram Prasad. **Stadium Press LLC, USA.**
3. Mohammad M. A. Shirazi, **Meisam Tabatabaei**. **2014. Wind and Biomass.** In [Energy Science and Technology \(Vol. 6\)](#), Book edited by U.C. Sharma, Shiva Kumar and Ram Prasad. **Stadium Press LLC, USA.**
4. Mandana Akia, Esmail Khalife, **Meisam Tabatabaei**. **2017. An overview of the recent advances in the application of metal oxide nanocatalysts for biofuel production.** In: [Nanotechnology for Bioenergy and Biofuel Production](#). Springer International Publishing Switzerland. (DOI 10.1007/978-3-319-45459-7_12).
5. Valijanian, E., **Tabatabaei, M.**, Aghbashlo, M., Sulaiman, A. and Chisti, Y., **2018. Biogas Production Systems.** In [Biogas](#) (pp. 95-116). Springer Nature.
6. **Tabatabaei, M.**, Valijanian, E., Aghbashlo, M., Ghanavati, H., Sulaiman, A. and Wakisaka, M., **2018. Prominent Parameters in Biogas Production Systems.** In [Biogas](#) (pp. 135-161). Springer Nature.

7. Almasi, F., Soltanian, S., Hosseinpour, S., Aghbashlo, M. and **Tabatabaei, M., 2018. Advanced Soft Computing Techniques in Biogas Production Technology.** In [Biogas](#) (pp. 387-417). Springer Nature.
8. Khoshnevisan, B., Rafiee, S. and **Tabatabaei, M., 2018. Waste Management Strategies: Life Cycle Assessment (LCA) Approach.** In [Biogas](#) (pp. 305-331). Springer Nature.
9. Ghodrat, A.G., **Tabatabaei, M.,** Aghbashlo, M. and Mussatto, S.I., **2018. Waste Management Strategies; the State of the Art.** In [Biogas](#) (pp. 1-33). Springer Nature.

Selected List of Journal Papers:

1. Nick Watts, Markus Amann, Nigel Arnell, Sonja Ayeb-Karlsson, Kristine Belesova, Helen Berry, Timothy Bouley, Maxwell Boykoff, Peter Byass, Wenjia Cai, Diarmid Campbell-Lendrum, Jonathan Chambers, Meaghan Daly, Niheer Dasandi, Michael Davies, Anneliese Depoux, Paula Dominguez-Salas, Paul Drummond, Kristie L. Ebi, Paul Ekins, Lucia Fernandez Montoya, Helen Fischer, Lucien Georgeson, Delia Grace, Hilary Graham, Ian Hamilton, Stella Hartinger, Jeremy Hess, Ilan Kelman, Gregor Kiesewetter, Tord Kjellstrom, Dominic Kniveton, Bruno Lemke, Lu Liang, Melissa Lott, Rachel Lowe, Maquins Odhiambo Sewe, Jaime Martinez-Urtaza, Mark Maslin, Lucy McAllister, Slava Jankin Mikhaylov, James Milner, Maziar Moradi-Lakeh, Karyn Morrissey, Kris Murray, Maria Nilsson, Tara Neville, Tadj Oreszczyn, Fereidoon Owfi, Olivia Pearman, David Pencheon, Steve Pye, Mahnaz Rabbaniha, Elizabeth Robinson, Joacim Rocklöv, Olivia Saxer, Stefanie Schütte, Jan C. Semenza, Joy Shumake-Guillemot, Rebecca Steinbach, **Meisam Tabatabaei**, Julia Tomei, Joaquin Trinanes, Nicola Wheeler, Paul Wilkinson, Peng Gong, Hugh Montgomery, Anthony Costello. (2019). **The 2018 report of the Lancet Countdown on health and climate change: shaping the health of nations for centuries to come** ([The Lancet](#))- **(5-Year Impact Factor: 53.254)**.
2. Rajaeifar, M.A., Hemayati, S.S., **Tabatabaei, M.,** Aghbashlo, M. and Mahmoudi, S.B., **2019. A review on beet sugar industry with a focus on implementation of waste-to-energy strategy for power supply,** ([Renewable and Sustainable Energy Reviews 103, pp.423-442.](#))- (ISI-Scopus cited). **(5-Year Impact Factor: 10.093)**.
3. Aghbashlo, M., Hosseinpour, S., **Tabatabaei, M.** and Soufiyan, M.M., **2019. Multi-objective exergetic and technical optimization of a piezoelectric ultrasonic reactor applied to synthesize biodiesel from waste cooking oil (WCO) using soft computing techniques.** ([Fuel, 235, 100-112](#))- (ISI-Scopus cited). **(5-Year Impact Factor: 5.033)**.
4. Najafi, B., Akbarian, E., Lashkarpour, S.M., Aghbashlo, M., Ghaziaskar, H.S. and **Tabatabaei, M., 2019. Modeling of a dual fueled diesel engine operated by a novel fuel containing glycerol triacetate additive and biodiesel using artificial neural network tuned by genetic algorithm to reduce engine emissions.** ([Energy, 168, pp.1128-1137](#))- (ISI-Scopus cited). **(5-Year Impact Factor: 5.582)**.
5. Aghbashlo, M., Hosseinpour, S., Tabatabaei, M., Rastegari, H. and Ghaziaskar, H.S., **2019. Multi-objective exergoeconomic and exergoenvironmental optimization of continuous synthesis of solketal through glycerol ketalization with acetone in the presence of ethanol as co-solvent.** ([Renewable Energy, 130, pp.735-748](#))- (ISI-Scopus cited). **(5-Year Impact Factor: 4.981)**.
6. Ghareghani, A., Asiaei, S., Khalife, E., Najafi, B. and **Tabatabaei, M., 2019. Simultaneous reduction of CO and NOx emissions as well as fuel consumption by using water and nano particles in Diesel–Biodiesel blend.** ([Journal of Cleaner Production, 210, pp.1164-1170.](#))- (ISI-Scopus cited). **(5-Year Impact Factor: 6.352)**.

7. Nick Watts, Markus Amann, Sonja Ayeb-Karlsson, Kristine Belesova, Timothy Bouley, Maxwell Boykoff, Peter Byass, Wenjia Cai, Diarmid Campbell-Lendrum, Jonathan Chambers, Peter M Cox, Meaghan Daly, Niheer Dasandi, Michael Davies, Michael Depledge, Anneliese Depoux, Paula Dominguez-Salas, Paul Drummond, Paul Ekins, Antoine Flahault, Howard Frumkin, Lucien Georgeson, Mostafa Ghanei, Delia Grace, Hilary Graham, Rébecca Grojsman, Andy Haines, Ian Hamilton, Stella Hartinger, Anne Johnson, Ilan Kelman, Gregor Kieseewetter, Dominic Kniveton, Lu Liang, Melissa Lott, Robert Lowe, Georgina Mace, Maquins Odhiambo Sewe, Mark Maslin, Slava Mikhaylov, James Milner, Ali Mohammad Latifi, Maziar Moradi-Lakeh, Karyn Morrissey, Kris Murray, Maria Nilsson, Tara Neville, Tadj Oreszczyn, Fereidoon Owfi, David Pencheon, Steve Pye, Mahnaz Rabbaniha, Elizabeth Robinson, Joacim Rocklöv, Stefanie Schütte, Joy Shumake-Guillemot, Rebecca Steinbach, **Meisam Tabatabaei**, Nicola Wheeler, Paul Wilkinson, Peng Gong, Hugh Montgomery, Anthony Costello. (2018). **The 2017 Report of The Lancet Countdown on Health and Climate Change: From 25 years of inaction to a global transformation for public health.** ([The Lancet](#))- (5-Year Impact Factor: **53.254**).
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87. Mehdi Hosseini, Ali Mohammad Nikbakht, Meisam Tabatabaei. **2012. Biodiesel Production in Batch Tank Reactor Equipped to Helical Ribbon-like Agitator.** ([Modern Applied Science, 6\(3\): 40-45](#))–(Scopus cited).
88. Pouya Mohammadi, Ali M. Nikbakht, Meisam Tabatabaei, Khalil Farhadi. **2012. A Novel Diesel Fuel Additive to Improve Fuel Properties and to Reduce Emissions.** ([International Journal of Automotive Engineering](#)).
89. Pouya Mohammadi, Ali M. Nikbakht, Meisam Tabatabaei, Khalil Farhadi and Mahdi Khatamifar. **2012. Experimental Investigation of Performance and Emission Characteristics of DI Diesel Engine Fueled with Polymer Waste dissolved in Biodiesel-Blended Diesel Fuel.** ([Energy](#))– (ISI-Scopus cited). (**5-Year Impact Factor: 5.582**).
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91. Meisam Tabatabaei, Masoud Tohidfar, Gholamreza Salehi Zouzani, Mohammad Pazouki and Mohammadreza Safarnejad. **2011. Biodiesel Production from genetically engineered microalgae; the future of bioenergy in Iran.** ([Renewable and Sustainable Energy Reviews- 15\(4\), pp: 1918-1927](#))– (ISI-Scopus cited). (**5-Year Impact Factor: 10.093**).

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96. Meisam Tabatabaei, Mohd Rafein Zakaria, Raha Abdul Rahim, André-Denis G. Wright, Yoshihito Shirai, Norhani Abdullah, Mehdi Shamsara, Kenji Sakai and Mohd Ali Hassan . 2010. Comparative Study of Methods for Extraction and Purification of Environmental DNA from Wastewater Sludge ([African Journal of Biotechnology- 9\(31\), pp: 4926-4937](#))–(ISI-Scopus cited). (5-Year Impact Factor: 0.794).
97. Meisam Tabatabaei, Raha Abdul Rahim, André-Denis G. Wright, Yoshihito Shirai, Norhani Abdullah, Alawi Sulaiman, Kenji Sakai and Mohd Ali Hassan. 2010. Importance of the methanogenic archaea populations in anaerobic wastewater treatments ([Process Biochemistry- 45\(8\), pp: 1214-1225](#))– (ISI-Scopus cited). (5-Year Impact Factor: 2.987).
98. Meisam Tabatabaei, Mohd Rafein Zakaria, Raha Abdul Rahim, André-Denis G. Wright, Yoshihito Shirai, Norhani Abdullah, Kenji Sakai, Shinya Ikeno, Masatsugu Mori, Nakamura Kazunori, Alawi Sulaiman and Mohd Ali Hassan. 2009. PCR-Based DGGE and FISH Analysis of Methanogens in Anaerobic Closed Digester Tank Treating Palm Oil Mill Effluent (POME). ([Electronic Journal of Biotechnology, vol. 12, no. 3](#)). Available from Internet: <http://www.ejbiotechnology.cl/content/vol12/issue3/full/4/index.html>. ISSN 0717-3458.(ISI-Scopus cited)(5-Year Impact Factor: 1.343)
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101. Azhari Samsu Baharuddin, Nakamura Kazunori, Meisam Tabatabaei, Suraini Abd-Aziz, Nor' Aini Abdul Rahman, Mohd Ali Hassan, Kenji Sakai and Yoshihito Shirai. 2009. Characteristics and microbial succession in co-composting of oil palm empty fruit bunch and partially treated palm oil mill effluent. ([Open Biotechnology Journal- 3, pp: 87-95](#))–(Scopus cited).

102. Mohd Rafein Zakaria, Meisam Tabatabaei, Yoshihito Shirai, and Mohd Ali Hassan. 2009. **Polyhydroxyalkanoate production from anaerobically treated palm oil mill effluent by new bacterial strain Comamonas sp. EB172** ([World Journal of Microbiology and Biotechnology- 26\(5\), pp: 767-774](#))-(ISI-Scopus cited). (5-Year Impact Factor: 1.602)

Five Selected Journal Papers:

1. Nick Watts, Markus Amann, Nigel Arnell, Sonja Ayeb-Karlsson, Kristine Belesova, Helen Berry, Timothy Bouley, Maxwell Boykoff, Peter Byass, Wenjia Cai, Diarmid Campbell-Lendrum, Jonathan Chambers, Meaghan Daly, Niheer Dasandi, Michael Davies, Anneliese Depoux, Paula Dominguez-Salas, Paul Drummond, Kristie L. Ebi, Paul Ekins, Lucia Fernandez Montoya, Helen Fischer, Lucien Georgeson, Delia Grace, Hilary Graham, Ian Hamilton, Stella Hartinger, Jeremy Hess, Ilan Kelman, Gregor Kiesewetter, Tord Kjellstrom, Dominic Kniveton, Bruno Lemke, Lu Liang, Melissa Lott, Rachel Lowe, Maquins Odhiambo Sewe, Jaime Martinez-Urtaza, Mark Maslin, Lucy McAllister, Slava Jankin Mikhaylov, James Milner, Maziar Moradi-Lakeh, Karyn Morrissey, Kris Murray, Maria Nilsson, Tara Neville, Tadj Oreszczyn, Fereidoon Owfi, Olivia Pearman, David Pencheon, Steve Pye, Mahnaz Rabbaniha, Elizabeth Robinson, Joacim Rocklöv, Olivia Saxer, Stefanie Schütte, Jan C. Semenza, Joy Shumake-Guillemot, Rebecca Steinbach, Meisam Tabatabaei, Julia Tomei, Joaquin Trinanes, Nicola Wheeler, Paul Wilkinson, Peng Gong, Hugh Montgomery, Anthony Costello. (2018). **The 2018 report of the Lancet Countdown on health and climate change: shaping the health of nations for centuries to come** ([The Lancet](#))- (5-Year Impact Factor: 53.254). *Publication date: November 2018.*
2. Nick Watts, Markus Amann, Sonja Ayeb-Karlsson, Kristine Belesova, Timothy Bouley, Maxwell Boykoff, Peter Byass, Wenjia Cai, Diarmid Campbell-Lendrum, Jonathan Chambers, Peter M Cox, Meaghan Daly, Niheer Dasandi, Michael Davies, Michael Depledge, Anneliese Depoux, Paula Dominguez-Salas, Paul Drummond, Paul Ekins, Antoine Flahault, Howard Frumkin, Lucien Georgeson, Mostafa Ghanei, Delia Grace, Hilary Graham, Rébecca Grojsman, Andy Haines, Ian Hamilton, Stella Hartinger, Anne Johnson, Ilan Kelman, Gregor Kiesewetter, Dominic Kniveton, Lu Liang, Melissa Lott, Robert Lowe, Georgina Mace, Maquins Odhiambo Sewe, Mark Maslin, Slava Mikhaylov, James Milner, Ali Mohammad Latifi, Maziar Moradi-Lakeh, Karyn Morrissey, Kris Murray, Maria Nilsson, Tara Neville, Tadj Oreszczyn, Fereidoon Owfi, David Pencheon, Steve Pye, Mahnaz Rabbaniha, Elizabeth Robinson, Joacim Rocklöv, Stefanie Schütte, Joy Shumake-Guillemot, Rebecca Steinbach, Meisam Tabatabaei, Nicola Wheeler, Paul Wilkinson, Peng Gong, Hugh Montgomery, Anthony Costello. **The 2017 Report of The Lancet Countdown on Health and Climate Change: From 25 years of inaction to a global transformation for public health.** ([The Lancet](#))- (5-Year Impact Factor: 53.254). *Publication Date: 31st October 2017.*

“These reports, which include a large deal of internationally-collected data, offer an in-depth perspective on the various adverse impacts of climate change. They also link these impacts with public health under different categories. These comprehensive manuscripts are of critical importance as they will try to shed light on a number of controversial issues concerning climate change and public health.”

3. Esmail Khalife, Meisam Tabatabaei, Ayhan Demirbas, Mortaza Aghbashlo, (2017). **Impacts of additives on performance and emission characteristics of diesel engines during steady state operation.** ([Progress in Energy and Combustion Science, 59: 32-78](#))- (ISI-Scopus cited). (5-Year Impact Factor: 25.242). <http://dx.doi.org/10.1016/j.pecs.2016.10>.

“PECS is among the most prestigious journals in the field publishing only 12 papers annually by well-established scholars. This extremely comprehensive manuscript literally covers all the various aspects of different diesel/biodiesel additives and their impact on improving diesel engine performance and emissions characteristics”

This article in fact recognizes the efforts we have put into the domain of fuel additives over the last 3 years which has led to a considerable number of publications in archival journals such as “Fuel”, “Energy”, “Energy Conversion and Management”, etc. These publications are aimed at reducing greenhouse gas (GHG) emissions.

<http://www.sciencedirect.com/science/article/pii/S036012851630003X>

4. Esmail Khalife, **Meisam Tabatabaei**, Bahman Najafi, Seyed Mostafa Mirsalim, Ayat Gharehghani, Pouya Mohammadi, Mortaza Aghbashlo, Akram Ghaffari, Zahra Khounani, Taha Roodbar Shojaei, Mohamad Amran Mohd Salleh. **2017. A novel emulsion fuel containing aqueous nano cerium oxide additive in diesel–biodiesel blends to improve diesel engines performance and reduce exhaust emissions: Part I– Experimental analysis. (Fuel)- (ISI-Scopus cited). (5-Year Impact Factor: 5.033).**

“Improving fuel combustion in engines and consequently reducing environmentally-unfavourable emissions is of prominent importance in addressing some of the main challenges of the current century, i.e., global warming and climate change. Fuel additives are considered as efficient way for improving fuel properties and to diminish engine emissions. In line with this, the present research was focused on the simultaneous application of water (3, 5, and 7 wt.%) and cerium oxide nano particles (90 ppm) as metal-based additive into biodiesel/diesel fuel blend (B5) and their impacts on the performance and emission characteristics of a single cylinder four stroke diesel engine were investigated. The findings revealed that the aqueous nano-emulsion of cerium oxide improved the overall combustion quality. More specifically, the brake specific fuel consumption (bsfc) of B5 containing 3% water and 90 ppm cerium oxide (B5W3m) was measured 5% and 16% lower than those of neat B5 and neat B5 containing 3% water (B5W3), respectively. Moreover, the B5W3m fuel blend increased brake thermal efficiency (bte) by over 23 and 11% compared with B5W3 and B5, respectively. B5W3m also considerably reduced CO, HC, and NO_x emissions by 51, 45, and 27% compared with B5W3. To the best of our knowledge, this is the first report exploring the impacts of low-level water containing cerium oxide in B5 on engine performance and emission characteristics.”

<http://www.sciencedirect.com/science/article/pii/S0016236117307330>

5. Rajaeifar, M.A., Abdi, R. and **Tabatabaei, M.**, (2017). **Expanded polystyrene waste application for improving biodiesel environmental performance parameters from life cycle assessment point of view. (Renewable and Sustainable Energy Reviews 74, pp.278-298.)- (ISI-Scopus cited). (5-Year Impact Factor: 10.093).**

“This Review-Research manuscript was primarily aimed at reviewing recent studies on biodiesel production as well as the application of various biodiesel additives including their life cycle assessment studies. In the subsequent section, life cycle assessment (LCA) studies conducted on biodiesel and biodiesel additives were explored. Finally, this study for the first time (to the best of our knowledge) reported on the LCA of polymeric wastes as fuel additives. More specifically, the environmental burdens of expanded polystyrene (EPS) dissolution in waste cooking oil (WCO) biodiesel were investigated and consequently the best scenario for sustainable EPS-WCO biodiesel consumption was proposed.”

This article in fact recognizes the efforts we have put into the novel biofuel formulations using with an aim of energy/resource recovery over the last 7 years which has led to a considerable number of publications in archival journals such as “Energy”, “Energy Conversion and Management”, etc.

<http://www.sciencedirect.com/science/article/pii/S1364032117302526>

Selected Patents:

1. **Meisam Tabatabaei**, Mohd Rafein Zakaria, Raha Abdul Rahim, André-Denis G. Wright, Yoshihito Shirai, Norhani Abdullah, Mehdi Shamsara, Kenji Sakai and Mohd Ali Hassan. **2008. Method or Direct Isolation of High Yield, PCR-Compatible DNA from Environmental Samples. (Malaysian Patent Pending Number: PI20082842) (PCT/MY2009/000143)-(European Patent Application EP2499246) (United State Patent Office Publication Number: US 2014/0051847 A1).**

2. **Meisam Tabatabaei, Mahdi Khatami far. 2009. Pro Spinning Tube In Tube Reactor (Pro-STT) Equipped with High Voltage System For The Production Of Biodiesel and Glycerin ([Iranian Patent Grant Number:62533](#)).**
3. **Mahdi Khatami far, Meisam Tabatabaei. 2009. Pro Spinning Tube In Tube Reactor (Pro-STT) Equipped with Centrifuge System For The Production Of Biodiesel and Glycerin ([Iranian Patent Grant Number:62531](#)).**
4. **Mahdi Khatami far, Meisam Tabatabaei. 2009. Miniature Spinning Tube In Tube Reactor With Application In Diesel Engine Fueling System ([Iranian Patent Grant Number:62528](#)).**
5. **Behrooz B. Dashti, Mahdi Khatami far, Meisam Tabatabaei, Ali G. Soloot, Ali M. Nikbakht. A novel System for Biogas Production and Anaerobic Digestion of Organic Wastes. ([Iranian Patent Grant Number:65077](#)).**
6. **Meisam Tabatabaei, Ali M. Nikbakht, Khalil Farhadi, Pouya Mohammadi, Mehdi Khatami far, Mojtaba Khyam Nekouei. Fuel Additive “Diesel 5+” ([Iranian Patent Grant Number: 73336](#)).**
7. **Ali Zonouzi, Meisam Tabatabaei, Nazanin Saberi, Mehdi Khatamifar. BD-Pro 50; a fully automated biodiesel processor. ([Iranian Patent Grant Number: 82699](#)).**