

Personal Information		Prof. Dr. Yadollah Saboohi																											
		📍 Sharif University of Technology, Azadi Ave., Tehran, IR iRan ☎ +98 912 148 4035 ✉ saboohi@sharif.edu Sex: Male Date of Birth: 12/11/1955 Nationality: Iran																											
Brief Description of Achievements 1990 - Now Chairman of NE3T GmbH Retired Prof. since May 2023		Journal Publications: 114 Conference Publications: 38 Technical Reports: 19 MSc Students Graduated: 132 PhD Candidates Graduated: 19 Technology Invention: 2 International Cooperation: 22 Implemented Industrial Projects: 37 Language: 4 Special Works & Initiatives: 22 Published Book: 1 (Persian), 1 (German) Courses Taught – BSc: 3 Courses Taught – MSc & Phd: 10 Scopus Author ID: 55897518200 ISI Researcher ID: H-7924-2018 OrCID: 0000-0002-4608-7469 All Citation: 2827 Citation Since 2019: 1688 Google Scholar → h-Index all: 26 h-Index since 2019: 22 i10 Index since 2019: 40 Google Scholar: https://scholar.google.com/citations?user=9JWg58IAAAJ&hl=en																											
Work Experience 1990 - 2023 1999 – 2017 1999 – 2010 1988 – 1990 1982 - 1984		Prof. – Faculty Member – Sharif University of Technology (SUT) Founder and Director of Sharif Energy Research Institute Founder and Head of Postgraduate Program of Energy Systems Engineering Head of Energy Policy Group – Ministry of Energy - Iran Expert of Energy Information System – Ministry of Energy - Iran																											
Education and Training 1975 – 1979 1979 – 1980 1984 - 1988		BSc Engineering – Queen Mary College – University of London – England MSc of OR – London School of Economics – London – England Dr. Ing. – Energy Systems – University of Stuttgart - Germany																											
Managerial Skills 1990 – 1995 1990 - 1994 1996 – 2003 1997 – 2002 1995 - 1997 1998 – 2001 2010 – 2012 2013 – 2017 2018 - 2020 2013 - Now 2019 - Now		Project Leader – Comprehensive Energy Plan for Iran Managing Cooperation of SUT in Iran and IEEJ in Japan on Energy Studies Advisor to Deputy of Ministry of Petroleum – Iran Managing projects of Energy Efficiency in Iran Managing Cooperation of SUT in Iran – with ECCJ, IEEJ, JICA, NEDO of Japan Managing Project on Gas Planning Model – BP of England Managing Project on Energy Efficiency gas and Oil Pipeline in Iran Head of Energy & Environment Office – Vice Presidency for Science and Technology Managing Project on Market for Energy & Environment in Iran – in Cooperation with DIW in Berlin and Supported by BMU of Germany Founder and Head of Board of Science & Energy Technology – Tarasht (SEEET) Co. Founder and Head of Board of NE3T GmbH – www.ne3t.de																											
Personal Skills Native Language Other Languages Persian (Farsi) English Germany		Azari – Azarbaijan <table><tr><th colspan="2">Understanding</th><th colspan="2">Speaking</th><th>Writing</th></tr><tr><th>Listening</th><th>Reading</th><th>Interaction</th><th>Communication</th><th></th></tr><tr><td>Excellent</td><td>Excellent</td><td>Excellent</td><td>Excellent</td><td>Excellent</td></tr><tr><td>Excellent</td><td>Excellent</td><td>Very Good</td><td>Very Good</td><td>Very Good</td></tr><tr><td>Excellent</td><td>Excellent</td><td>Very Good</td><td>Very Good</td><td>Very Good</td></tr></table>			Understanding		Speaking		Writing	Listening	Reading	Interaction	Communication		Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Very Good	Very Good	Very Good	Excellent	Excellent	Very Good	Very Good	Very Good
Understanding		Speaking		Writing																									
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Excellent	Excellent	Excellent	Excellent	Excellent																									
Excellent	Excellent	Very Good	Very Good	Very Good																									
Excellent	Excellent	Very Good	Very Good	Very Good																									
Computer Skills Energy Models Microsoft Office Programming		MESSAGE, MARKAL, TIMES, ESM, Demand Models, GAMSCGE Models Proficient user (Word, Excel, Power Point, Access), , Statistical Software Programing Languages (Fortran, C++, VB, Python)																											

Publication Since 2015	1. Morteza Mahmoudi a,b, Yadollah Saboohi a,*, Jonathan K"ohler Facilitating the transition to sustainable propulsion in the shipping industry: An agent-based modelling analysis of retrofitting Environmental Innovation and Societal Transitions 51 (2024) 100838 2. A Hosseinnjad, Y Saboohi, G Zarei, J Shayegan An exergoeconomic-based method for forming water quality pyramid and assessing the sustainability of recycling processes – A greenhouse case study Sustainable Energy Technologies and Assessments 59 (2023) 103408 3. MB Ledari, Y Saboohi, S Azamian <u>Water-Food-Energy-Ecosystem nexus model development: Resource scarcity and Regional development</u> Energy Nexus, 100207, 2023 4. A Hosseinnjad, Y Saboohi, G Zarei, J Shayegan <u>Developing an integrated model for allocating resources and assessing technologies based on the watery optimal point (water-energy nexus), case study: a greenhouse</u> Journal of Sustainable Development of Energy, Water and Environment Systems, 2023 DOI: 10.13044/j.sdewes.d10.0416 5. Golzari, S., Saboohi Y. Analysis of preferences of households for choosing heating and cooling systems: A discrete Choice Analysis in Iran SSRN, 2023 DOI: 10.2139/ssrn.4401017 6. A Hosseinnjad, Y Saboohi, G Zarei, J Shayegan <u>Thermoeconomic analysis of reducing exergy losses in greenhouses with hydroponic cultivation system through drainage recycling and formation of water quality pyramid</u> Engineering and Energy Management 13 (1), 74-89, 2023 7. Mohammad Ebrahimi Saryazdi, S., Rezaei, F., Saboohi, Y., Sassani, F. Multi-objective optimization of preheating system of natural gas pressure reduction station with turbo-expander through the application of waste heat recovery system Thermal Science and Engineering Progress, 2023, 38, 101509 DOI: 10.1016/j.tsep.2022.101509 8. Zamanipour, B., Ghadaksaz, H., Keppo, I., Saboohi, Y. Electricity supply and demand dynamics in Iran considering climate change-induced stresses Energy, 2023, 263, 126118 DOI: 10.1016/j.energy.2022.126118 9. Ledari, M.B.; Saboohi, Y.; Valero, A.; Azamian, S. Exergy cost analysis of soil-plant system International Journal of Exergy, 2022 DOI: 10.1504/IJEX.2022.124174
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 DOI: [10.1016/j.esr.2022.100820](https://doi.org/10.1016/j.esr.2022.100820)
11. Mina Kolagar; Yadollah Saboohi; Amirhossein Fathi
 "Evaluation of long-term steel demand in developing countries- Case study: Iran"
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 DOI: [10.1016/j.resourpol.2022.102675](https://doi.org/10.1016/j.resourpol.2022.102675)
12. Yasaman Tavakol-Moghaddam; Yadollah Saboohi; Amirhossein Fathi
 "Optimal design of solar concentrator in multi-energy hybrid systems based on minimum exergy destruction"
 Renewable Energy, 2022
 DOI: [10.1016/j.renene.2022.03.079](https://doi.org/10.1016/j.renene.2022.03.079)
13. Amirhossein Fathi; Masoomeh Bararzadeh Ledari; Yadollah Saboohi
 "Evaluation of Optimal Occasional Tilt on Photovoltaic Power Plant Energy Efficiency and Land Use Requirements, Iran"
 Sustainability, 2021
 DOI: [10.3390/su131810213](https://doi.org/10.3390/su131810213)
14. Ahmadi, S., Saboohi, Y., Vakili, A.
 "Frameworks, quantitative indicators, characters, and modeling approaches to analysis of energy system resilience: A review"
Renewable and Sustainable Energy Reviews, 2021
15. Hossein Khajepour; Yadollah Saboohi; George Tsatsaronis
 "On the fair accounting of carbon emissions in the global system using an exergy cost formation concept"
 Journal of Cleaner Production, 2021
 DOI: [10.1016/j.jclepro.2020.124438](https://doi.org/10.1016/j.jclepro.2020.124438)
16. Kiyae, S., Saboohi, Y., Moshfegh, A.Z.
 "A new designed linear Fresnel lens solar concentrator based on spectral splitting for passive cooling of solar cells"
Energy Conversion and Management, 2021
17. Ahmadi, S., Saboohi, Y., Tsatsaronis, G., Vakili, A.
 "Energy system improvement planning under drought condition based on a two-stage optimization model: The desire for sustainability through the promoting of system's resilience"
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18. Ebrahimi Saryazdi, S.M., Rezaei, F., Saboohi, Y., Sassani, F.
 "Multi-objective optimal design of gas-fired heater based on modified design model of fired heater taking into account exergy, economic and environmental factors"
International Journal of Engineering, Transactions A: Basics, 2021
19. Ebrahimi Saryazdi, S.M., Rezaei, F., Saboohi, Y.
 "Optimal detailed design and performance assessment of natural gas pressure reduction stations system equipped with variable inlet guide vane radial turbo-expander for energy recovery"
 Journal of Natural Gas Science and Engineering, 2021
20. Hajjaligol, P., Fathi, A., Saboohi, Y.

	"Modeling and optimization of an integrated multi-generation solar system with variable heat to power ratio for supplying residential and industrial demands" <u>Renewable Energy</u>, 2021 21. Bararzadeh Ledari, M., Saboohi, Y., Azamian, S. "The tolerance level of the ecosystem as a limited constrain in the development planning" <u>Ecological Indicators</u>, 2021 22. Fathi, A., Ledari, M.B., Saboohi, Y. "Evaluation of optimal occasional tilt on photovoltaic power plant energy efficiency and land use requirements, Iran" <u>Sustainability (Switzerland)</u>, 2021 23. Masoomeh Bararzadeh Ledari; Yadollah Saboohi; Antonio Valero; Sara Azamian "Exergy Analysis of a Bio-System: Soil–Plant Interaction" <u>Entropy</u>, 2020 DOI: 10.3390/e23010003 24. Mohammad Salehi; Hossein Khajepour; Yadollah Saboohi "Extended Energy Return on Investment of multiproduct energy systems" <u>Energy</u>, 2020 DOI: 10.1016/j.energy.2019.116700 25. Hossein Khajepour (CA), Y. Saboohi, G. Tsatsaronis "On the fair accounting of carbon emissions in the global system using an exergy cost formation concept", <u>Journal of Cleaner Production</u>, 2020 https://doi.org/10.1016/j.jclepro.2020.124438 26. Parhizkar, T., Aramoun, F., Saboohi, Y. "Efficient health monitoring of buildings using failure modes and effects analysis case study: Air handling unit system" <u>Journal of Building Engineering</u>, 2020 27. Ghadaksaz, H., Saboohi, Y. "Energy supply transformation pathways in Iran to reduce GHG emissions in line with the Paris Agreement" <u>Energy Strategy Reviews</u>, 2020 28. Yousefi, F., Gholipour, Y., Saboohi, Y., Yan, W. "Interaction of glazing parameters, climatic condition and interior shadings: performing energy and cost analysis in a residential building in Iran" <u>Energy Efficiency</u>, 2020 29. Khajepour, H., Miremadi, I., Saboohi, Y., Tsatsaronis, G. "A novel approach for analyzing the effectiveness of the R&D capital for resource conservation: Comparative study on Germany and UK electricity sectors" <u>Energy Policy</u>, 2020 30. Rezaei Mirghaed, M., Saboohi, Y. „Optimal design of renewable integrated heat and electricity supply systems with genetic algorithm: household application in Iran" <u>International Journal of Environmental Science and Technology</u>, 2020 DOI: 10.1007/s13762-019-02543-9 31. Farzaneh Taksibi, Hossein Khajepour, Yadollah Saboohi "On environmental effectiveness analysis of energy policies: case study of the Megacity of Tehran", <u>Journal of Science of the Total Environment</u>, DOI: 10.1016/j.scitotenv.2019.135824, 2019
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