

# Emre GenÅşer

## List of Publications by Year in descending order

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Version: 2024-02-01

29  
papers

1,140  
citations

430874

18  
h-index

501196

28  
g-index

29  
all docs

29  
docs citations

29  
times ranked

1227  
citing authors

#	ARTICLE	IF	CITATIONS
1	A synergistic biorefinery based on catalytic conversion of lignin prior to cellulose starting from lignocellulosic biomass. <i>Green Chemistry</i> , 2015, 17, 1492-1499.	9.0	370
2	On the climate impacts of blue hydrogen production. <i>Sustainable Energy and Fuels</i> , 2021, 6, 66-75.	4.9	126
3	Sector coupling <i>via</i> hydrogen to lower the cost of energy system decarbonization. <i>Energy and Environmental Science</i> , 2021, 14, 4635-4646.	30.8	65
4	Hydrogen Supply Chain Planning With Flexible Transmission and Storage Scheduling. <i>IEEE Transactions on Sustainable Energy</i> , 2021, 12, 1730-1740.	8.8	53
5	Valorization of Shale Gas Condensate to Liquid Hydrocarbons through Catalytic Dehydrogenation and Oligomerization. <i>Processes</i> , 2018, 6, 139.	2.8	46
6	Can Industrial-Scale Solar Hydrogen Supplied from Commodity Technologies Be Cost Competitive by 2030?. <i>Cell Reports Physical Science</i> , 2020, 1, 100174.	5.6	45
7	Optimal liquified natural gas (LNG) cold energy utilization in an Allam cycle power plant with carbon capture and storage. <i>Energy Conversion and Management</i> , 2021, 228, 113725.	9.2	41
8	Sustainable energy system analysis modeling environment: Analyzing life cycle emissions of the energy transition. <i>Applied Energy</i> , 2020, 277, 115550.	10.1	37
9	Toward supplying food, energy, and water demand: Integrated solar desalination process synthesis with power and hydrogen coproduction. <i>Resources, Conservation and Recycling</i> , 2018, 133, 331-342.	10.8	34
10	Parametric modeling of life cycle greenhouse gas emissions from photovoltaic power. <i>Applied Energy</i> , 2019, 238, 760-774.	10.1	30
11	An Integrated Assessment of Emissions, Air Quality, and Public Health Impacts of China's Transition to Electric Vehicles. <i>Environmental Science &amp; Technology</i> , 2022, 56, 6836-6846.	10.0	30
12	A General Model for Estimating Emissions from Integrated Power Generation and Energy Storage. Case Study: Integration of Solar Photovoltaic Power and Wind Power with Batteries. <i>Processes</i> , 2018, 6, 267.	2.8	29
13	A commentary on the US policies for efficient large scale renewable energy storage systems: Focus on carbon storage cycles. <i>Energy Policy</i> , 2016, 88, 477-484.	8.8	28
14	Hourly Power Grid Variations, Electric Vehicle Charging Patterns, and Operating Emissions. <i>Environmental Science &amp; Technology</i> , 2020, 54, 16071-16085.	10.0	26
15	Directing solar photons to sustainably meet food, energy, and water needs. <i>Scientific Reports</i> , 2017, 7, 3133.	3.3	25
16	Technoeconomic Analysis of the Electrochemically Mediated Amine Regeneration CO <sub>2</sub> Capture Process. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 14085-14095.	3.7	24
17	Process improvements and multi-objective optimization of compressed air energy storage (CAES) system. <i>Journal of Cleaner Production</i> , 2022, 335, 130081.	9.3	24
18	Synthesis of efficient solar thermal power cycles for baseload power supply. <i>Energy Conversion and Management</i> , 2017, 133, 486-497.	9.2	20

#	ARTICLE	IF	CITATIONS
19	Techno-economic analysis of balancing California's power system on a seasonal basis: Hydrogen vs. lithium-ion batteries. <i>Applied Energy</i> , 2021, 300, 117314.	10.1	17
20	Uninterrupted renewable power through chemical storage cycles. <i>Current Opinion in Chemical Engineering</i> , 2014, 5, 29-36.	7.8	16
21	Round-the-clock power supply and a sustainable economy via synergistic integration of solar thermal power and hydrogen processes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 15821-15826.	7.1	14
22	Strategy to synthesize integrated solar energy coproduction processes with optimal process intensification. Case study: Efficient solar thermal hydrogen production. <i>Computers and Chemical Engineering</i> , 2017, 105, 328-347.	3.8	14
23	Sustainable production of ammonia fertilizers from biomass. <i>Biofuels, Bioproducts and Biorefining</i> , 2020, 14, 725-733.	3.7	10
24	Synergistic Biomass and Natural Gas Conversion to Liquid Fuel with Reduced CO2 Emissions. <i>Computer Aided Chemical Engineering</i> , 2014, , 525-530.	0.5	5
25	Integrated Solar Thermal Hydrogen and Power Coproduction Process for Continuous Power Supply and Production of Chemicals. <i>Computer Aided Chemical Engineering</i> , 2015, 37, 2291-2296.	0.5	5
26	Highlighting and overcoming data barriers: creating open data for retrospective analysis of US electric power systems by consolidating publicly available sources. <i>Environmental Research Communications</i> , 2020, 2, 115001.	2.3	3
27	A Framework for Multi-level Life Cycle Analysis of the Energy System. <i>Computer Aided Chemical Engineering</i> , 2019, , 763-768.	0.5	2
28	Modeling Impacts of Tracking on Greenhouse Gas Emissions from Photovoltaic Power. <i>Computer Aided Chemical Engineering</i> , 2019, 46, 1057-1062.	0.5	1
29	Back-End Design and Development of an Energy Systems Analysis Tool. <i>Computer Aided Chemical Engineering</i> , 2021, 50, 1433-1438.	0.5	0