

# Omar J Guerra

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8971949/publications.pdf>

Version: 2024-02-01

25  
papers

991  
citations

516561

16  
h-index

610775

24  
g-index

26  
all docs

26  
docs citations

26  
times ranked

1052  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cost Competitiveness of Electrolytic Hydrogen. <i>Joule</i> , 2019, 3, 2425-2443.	11.7	141
2	The value of seasonal energy storage technologies for the integration of wind and solar power. <i>Energy and Environmental Science</i> , 2020, 13, 1909-1922.	15.6	126
3	An optimization framework for the integrated planning of generation and transmission expansion in interconnected power systems. <i>Applied Energy</i> , 2016, 170, 1-21.	5.1	96
4	An optimization framework for the integration of water management and shale gas supply chain design. <i>Computers and Chemical Engineering</i> , 2016, 92, 230-255.	2.0	84
5	Flexible grid-based electrolysis hydrogen production for fuel cell vehicles reduces costs and greenhouse gas emissions. <i>Applied Energy</i> , 2020, 278, 115651.	5.1	74
6	A review of the potential impacts of climate change on bulk power system planning and operations in the United States. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 98, 255-267.	8.2	67
7	Process modeling, techno-economic assessment, and life cycle assessment of the electrochemical reduction of CO <sub>2</sub> : a review. <i>IScience</i> , 2021, 24, 102813.	1.9	59
8	Optimal energy storage portfolio for high and ultrahigh carbon-free and renewable power systems. <i>Energy and Environmental Science</i> , 2021, 14, 5132-5146.	15.6	46
9	Optimal design of solar-driven electrolytic hydrogen production systems within electricity markets. <i>Journal of Power Sources</i> , 2021, 483, 229183.	4.0	39
10	Climate change impacts and adaptation strategies for a hydro-dominated power system via stochastic optimization. <i>Applied Energy</i> , 2019, 233-234, 584-598.	5.1	36
11	Beyond short-duration energy storage. <i>Nature Energy</i> , 2021, 6, 460-461.	19.8	34
12	Improvements in Petroleum Refinery Planning: 1. Formulation of Process Models. <i>Industrial &amp; Engineering Chemistry Research</i> , 2011, 50, 13403-13418.	1.8	33
13	Advances and challenges in water management within energy systems. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 4009-4019.	8.2	27
14	Improvements in Petroleum Refinery Planning: 2. Case Studies. <i>Industrial &amp; Engineering Chemistry Research</i> , 2011, 50, 13419-13426.	1.8	21
15	Benefit Analysis of Long-Duration Energy Storage in Power Systems with High Renewable Energy Shares. <i>Frontiers in Energy Research</i> , 2020, 8, .	1.2	20
16	Integrated shale gas supply chain design and water management under uncertainty. <i>AIChE Journal</i> , 2019, 65, 924-936.	1.8	19
17	Preliminary Evaluation of Shale Gas Reservoirs: Appraisal of Different Well-Pad Designs via Performance Metrics. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 10334-10349.	1.8	15
18	Disclosing water-energy-economics nexus in shale gas development. <i>Applied Energy</i> , 2018, 225, 710-731.	5.1	15

#	ARTICLE	IF	CITATIONS
19	Valuing intra-day coordination of electric power and natural gas system operations. Energy Policy, 2020, 141, 111470.	4.2	11
20	Coordinated operation of electricity and natural gas systems from day-ahead to real-time markets. Journal of Cleaner Production, 2021, 281, 124759.	4.6	9
21	Financial Considerations in Shale Gas Supply Chain Development. Computer Aided Chemical Engineering, 2015, , 2333-2338.	0.3	8
22	Dynamic parameter estimation and identifiability analysis for heterogeneously-catalyzed reactions: Catalytic synthesis of nopol. Chemical Engineering Research and Design, 2018, 134, 226-237.	2.7	5
23	A Spatial Multi-Period Mixed Integer Linear Programming (MILP) Model for Optimal Power Planning: CO2 Emissions Mitigation. Computer Aided Chemical Engineering, 2015, , 2345-2350.	0.3	2
24	Wastewater Quality Impact on Water Management in Shale Gas Supply Chain. Computer Aided Chemical Engineering, 2016, , 1371-1376.	0.3	2
25	Strategic Design and Tactical Planning for Energy Supply Chain Systems. , 2017, , 47-74.		2