

# Zaki Uddin

Assistant Professor

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## About

Dr. Zaki Uddin is working as Assistant Professor in the College of Electrical & Mechanical Engineering. Dr. Zaki Uddin has a PhD in Power Electronics, Wind Power Generation. Dr. Zaki Uddin has published 35 research articles & conference papers having a citation count of 452, carried out 0 projects and filed 0 intellectual property.

## Qualifications

<b>PhD in Power Electronics, Wind Power Generation</b> Southeast University , China	2016 - 2020
<b>MSc in Power System Stability</b> UET Peshawar , Pakistan	2010 - 2014
<b>BSc in Electrical Engineering</b> UET Peshawar , Pakistan	2004 - 2008

## Experience

<b>Assistant Professor</b> College of Electrical & Mechanical Engineering	2024- Present
<b>Assistant Professor</b> College of Electrical & Mechanical Engineering	2024 - 2024
<b>Assistant Professor</b> College of Electrical & Mechanical Engineering	2022 - 2024
<b>Postdoctoral Fellow</b> Southeast University China , School of Electrical Engineering, Southeast University Nanjing, 210096, Jiangsu Province PR China	2020 - 2021
<b>Lecturer</b> Sarhad University of Science & Information Technology , Landi Akhun Ahmad, Adjacent Attock Petroleum, Ring Road (Kohat road-Hayatabad Link), Peshawar)	2012 - 2016
<b>Lab-Engineer</b> Sarhad University of Science & Information Technology , Landi Akhun Ahmad, Adjacent Attock Petroleum, Ring Road (Kohat road-Hayatabad Link), Peshawar)	2010 - 2012

## Research Articles

<b>Fault diagnosis and localization in photovoltaic-fed cascaded half-bridge five-level inverter using residual network architecture</b> <i>Iqra Ashfaq Zaki Uddin Naeem Ul Islam Azhar Ul Haq Muhammad nouman Arif</i> <i>Electrical Engineering</i> , Pages 1-24 <b>Impact Factor:</b> 1.900   <b>Quartile:</b> 3 <b>DOI:</b> <a href="https://doi.org/10.1007/s00202-025-03183-8">https://doi.org/10.1007/s00202-025-03183-8</a>	2025
<b>Impact of dead-time on resonance in doubly fed induction generator system under weak grid</b> <i>Zakiud Din Jianzhong Zhang Zheng Xu Yaqian Zhang Yipeng Song</i> <i>CSEE Journal of Power and Energy Systems</i> , Volume: 11, Issue: 3, Pages 1070-1079 <b>Impact Factor:</b> 5.900   <b>Quartile:</b> 1   <b>Citations:</b> 2 <b>DOI:</b> <a href="https://doi.org/10.17775/CSEEJPES.2021.00760">doi.10.17775/CSEEJPES.2021.00760</a>	2025
<b>Knacks of marine predator heuristics for distributed energy source-based power systems harmonics estimation</b> <i>Khalid Mehmood Cheema Khizar Mehmood Naveed Ishtiaq Choudhary Zeshan Aslam Kha Muhammad Asif Zahoor Raja Ahmed M. El-Sherbeenly Ahmed</i>	2024

Nadeem Zaki Uddin

Heliyon , Volume 10, Issue 15, Article Number e35776

**Impact Factor:** 3.400 | **Quartile:** 1 | **Citations:** 9

**DOI:** 10.1016/j.heliyon.2024.e35776

**Open switch fault diagnosis of cascaded H-bridge 5-level inverter using deep learning**

2024

Muhammad Nouman Arif Zaki Uddin Azhar Ul Haq Khalid Mehmood Cheema Ahmad H. Milyani Naeem ul Islam Iqra Ashfaq

*Frontiers in Energy Research*, Volume 12, Article Number 1388273

**Impact Factor:** 2.600 | **Quartile:** 3

**DOI:** <https://doi.org/10.3389/fenrg.2024.1388273>

**Rectification and converter control of the FPSLGs for energy storage applications**

2024

Murad Ali Yu Haitao Saleh Mobayen Jiahui Zhang Anton Zhilenkov Zaki Uddin

*IET Renewable Power Generation*, Pages 1-15

**Impact Factor:** 2.600 | **Quartile:** 2

**DOI:** <https://doi.org/10.1049/rpg2.12998>

**Grid-interfaced photovoltaic system with enhanced resilient control schemes for low-voltage ride-through**

2024

Asad Khan Muhammad Mansoor Khan Zaki Uddin Jiang Chuanwen Almoataz Y. Abdelaziz

*Electrical Engineering*, Volume 106, Issue 1, Pages 773-792

**Impact Factor:** 1.600 | **Quartile:** 3 | **Citations:** 8

**DOI:** <https://doi.org/10.1007/s00202-023-01994-1>

**Integrated metasurface for efficient polarization conversion and high-gain, low-RCS EM radiation**

2023

Saeed ur Rehman Hai Deng Muhammad Irshad Khan Naveed Ullah Zaki Uddin

*Optics Express*, Volume 31, Issue 17, Pages 27880-27893

**Impact Factor:** 3.8 | **Quartile:** 2 | **Citations:** 4

**DOI:** <https://doi.org/10.1364/OE.492751>

**Anomaly data identification for wind farms based on composite machine learning**

2022

Yongbin Wu Jianzhong Zhang Zaki Uddin Shubang Huang

*Journal of Renewable and Sustainable Energy*, Volume 14, Issue 6, Article Number 063307

**Impact Factor:** 2.500 | **Quartile:** 4 | **Citations:** 6

**DOI:** <https://doi.org/10.1063/5.0127640>

**Voltage balancing control of hybrid MMC under over-modulation situations with optimal circulating current injection**

2022

Yaqian Zhang Jianzhong Zhang Fujin Deng Zakiud Din

*International Journal of Electrical Power & Energy Systems*, Volume 140, Article Number 108053

**Impact Factor:** 5.2 | **Quartile:** 1 | **Citations:** 7

**DOI:** <https://doi.org/10.1016/j.ijepes.2022.108053>

**High-Resistance Connection Diagnosis Considering Current Closed-Loop Effect for Permanent Magnet Machine**

2022

Zheng Xu Zaki Uddin Yongjiang Jiang Khalid Mehmood Cheema Ahmad H Milyani

*Frontiers in Energy Research*, Volume 10, Article Number 933246

**Impact Factor:** 3.4 | **Quartile:** 3 | **Citations:** 4

**DOI:** [doi: 10.3389/fenrg.2022.933246](https://doi.org/10.3389/fenrg.2022.933246)

**Overmodulation Operation of Hybrid Modular Multilevel Converter With Reduced Energy Storage Requirement**

2022

Jianzhong Zhang Yaqian Zhang Fujin Deng Zaki Uddin

*IEEE Journal of Emerging and Selected Topics in Power Electronics*, Volume 10, Issue 3, Pages 2946-2958

**Impact Factor:** 5.5 | **Quartile:** 1 | **Citations:** 11

**DOI:** [DOI: 10.1109/JESTPE.2021.3111013](https://doi.org/10.1109/JESTPE.2021.3111013)

**Recent development and future trends of resonance in doubly fed induction generator system under weak grid**

2022

Zaki Uddin Jianzhong Zhang Zheng Xu Yaqian Zhang Ahmad H. Milyani Khalid Mehmood Cheema Arshad Nawaz Yipeng Song

*IET Renewable Power Generation*, Volume 16, Issue 5, Pages 807-834

**Impact Factor:** 2.6 | **Quartile:** 4 | **Citations:** 20

**DOI:** <https://doi.org/10.1049/rpg2.12378>

- Fault diagnosis of high voltage circuit breaker based on multi-sensor information fusion with training weights** 2022  
*Jianzhong Zhang Yongbin Wu Zheng Xu Zaki uddin Hao Chen*  
*Measurement* , Volume 192, Article Number 110894  
**Impact Factor:** 5.6 | **Quartile:** 1 | **Citations:** 21  
**DOI:** <https://doi.org/10.1016/j.measurement.2022.110894>
- Open switch fault diagnosis of cascade H-bridge multi-level inverter in distributed power generators by machine learning algorithms** 2021  
*Murad Ali Zaki Uddin Evgeny Solomin Khalid Mehmood Cheema Ahmad H Milyani Zhiyuan Che*  
*Energy Reports* , Volume 7, Pages 8929-8942  
**Impact Factor:** 4.937 | **Quartile:** 2 | **Citations:** 49  
**DOI:** <https://doi.org/10.1016/j.egy.2021.11.058>
- Lumped parameter model and electromagnetic performance analysis of a single-sided variable flux permanent magnet linear machine** 2021  
*Basharat Ullah Faisal Khan Muhammad Qasim Bakhtiar Khan Ahmad H Milyani Khalid Mehmood Cheema Zaki uddin*  
*Energies* , Volume 14, Issue 17, Article Number 5494  
**Impact Factor:** 3.252 | **Quartile:** 3 | **Citations:** 6  
**DOI:** <https://doi.org/10.3390/en14175494>
- Detection and Discrimination of Incipient Stator Faults for Inverter-Fed Permanent Magnet Synchronous Machines** 2021  
*Jianzhong Zhang Zheng Xu Jiayue Wang Jin Zhao Zaki Uddin Ming Cheng*  
*IEEE Transactions on Industrial Electronics* , Volume 68, Issue 8, Pages 7505-7515  
**Impact Factor:** 8.162 | **Quartile:** 1 | **Citations:** 64  
**DOI:** 10.1109/TIE.2020.3009563
- A multi-level gate driver for crosstalk suppression of silicon carbide MOSFETs in bridge arm** 2021  
*Yaodong Zhu Yongsheng Huang Haifu Wu Zaki Uddin Jianzhong Zhang*  
*IEEE Access* , Volume 9, Pages 100185-100196  
**Impact Factor:** 3.476 | **Quartile:** 2 | **Citations:** 9  
**DOI:** DOI: 10.1109/ACCESS.2021.3096547
- Realization of fault ride through for doubly fed induction generator system with cascade converter** 2021  
*Zaki uddin Jianzhong Zhang Zheng Xu Yaqian Zhang Jin Zhao*  
*International Transactions on Electrical Energy Systems* , Volume 31, Issue 3, Article Number e12792  
**Impact Factor:** 2.639 | **Quartile:** 3 | **Citations:** 15  
**DOI:** <https://doi.org/10.1002/2050-7038.12792>
- Low voltage and high voltage ride-through technologies for doubly fed induction generator system: Comprehensive review and future trends** 2021  
*Zaki Uddin Jianzhong Zhang Zheng Xu Yaqian Zhang Jin Zhao*  
*IET Renewable Power Generation* , Volume 15, Issue 3, Pages 614-630  
**Impact Factor:** 3.034 | **Quartile:** 4 | **Citations:** 47  
**DOI:** <https://doi.org/10.1049/rpg2.12047>
- Circulating current suppression control for modular multilevel converters based on restricted self-redundant states prediction** 2020  
*Xing Hu Jianzhong Zhang Fujin Deng Gui Chen Qiang Chen Zaki Uddin*  
*Journal of Power Electronics* , Volume 20, Issue 5, Pages 1149-1161  
**Impact Factor:** 1.114 | **Quartile:** 4 | **Citations:** 1  
**DOI:** <https://doi.org/10.1007/s43236-020-00104-9>
- Impact of phase locked loop with different types and control dynamics on resonance of DFIG system** 2020  
*Zaki Uddin Jianzhong Zhang Hussain Bassi Muhyaddin Rawa Yipeng Song*  
*Energies* , Volume 13, Issue 5, Article Number 1039  
**Impact Factor:** 3.004 | **Quartile:** 3 | **Citations:** 17  
**DOI:** <https://doi.org/10.3390/en13051039>
- Active damping of resonances in DFIG system with cascade converter under weak grid** 2019  
*Zaki Uddin Jianzhong Zhang Yaqian Zhang Zheng Xu Jin Zhao Yipeng Song*  
*International Transactions on Electrical Energy Systems* , Volume 29, Issue 11, Article Number e12118  
**Impact Factor:** 1.692 | **Quartile:** 3 | **Citations:** 13

DOI: <https://doi.org/10.1002/2050-7038.12118>

**Impact of grid impedance on LVRT Performance of DFIG system with rotor crowbar technology** 2019  
*Zaki Uddin Jianzhong Zhang Yaodong Zhu Zheng Xu Ahmed El-Naggar*  
*IEEE Access*, Volume 7, Pages 127999-128008  
**Impact Factor:** 3.745 | **Quartile:** 1 | **Citations:** 66  
**DOI:** DOI: 10.1109/ACCESS.2019.2938207

**Hybrid multilevel converters: Topologies, evolutions and verifications** 2019  
*Zaki Uddin Jianzhong Zhang Shuai Xu Xing Hu*  
*Energies*, Volume 12, Issue 4, Article Number 615  
**Impact Factor:** 2.702 | **Quartile:** 3 | **Citations:** 73  
**DOI:** <https://doi.org/10.3390/en12040615>

## Conference Proceedings

**A Novel Feedforward Strategy for the Charge-Modulated LLC Resonant Converter** 2025  
*Jie Chen Yong Wang Jian Wang Zaki Uddin*  
*2025 8th International Conference on Energy, Electrical and Power Engineering (CEEPE)*, res.country(48,)  
**Citations:** N/A  
**DOI:** 10.1109/CEEPE64987.2025.11033919

**Brushless Excitation Technologies for Doubly Fed Induction Generator System: Survey of Solutions and Future Trends** 2025  
*Zaki Uddin Jian Wang Jianzhong Zhang Xingyuan Song*  
*2025 7th Asia Energy and Electrical Engineering Symposium (AEEES)*, res.country(48,)  
**Citations:** N/A  
**DOI:** 10.1109/AEEES64634.2025.11019524

**Data-driven Adaptive Robust Optimization of Self-Scheduling Problem of Multi-Energy Virtual Power Plant Under Uncertainties** 2025  
*Jian Wang Zaki Uddin Run Cao Xingyuan Song Zibo Wu*  
*THE 2nd INTERNATIONAL CONFERENCE ON SMART GRIDS AND POWER SYSTEMS (ICSGPS 2025)*, res.country(48,)  
**Citations:** N/A  
**DOI:** 10.1088/1742-6596/3012/1/012035

**Impact of Different Parameters on Symmetry and Size of Single Step Anodization Nanopores in Porous Alumina** 2024  
*Nabeela Noor Shah Haider Zaki Uddin Iqra Ashfaq*  
*6th International Conference on Robotics and Automation in Industry, ICRAI 2024*, res.country(177,)  
**Citations:** N/A  
**DOI:** 10.1109/ICRAI62391.2024.10893939

**Optimizing Wind Speed Estimation with Least Squares Generative Adversarial Networks: A Case Study of Pakistan** 2024  
*Iqra Ashfaq Hasan Zahid Zaki Uddin Fajr Naveed Aaisha Abid*  
*2024 International Conference on Robotics and Automation in Industry (ICRAI)*, res.country(177,)  
**Citations:** N/A  
**DOI:** 10.1109/ICRAI62391.2024.10894229

**Operation and Evaluation of Wind Power Generation System with Constant Frequency Double Rotor Generator** 2020  
*Zakiud Din Dan Su Jianzhong Zhang Zheng Xu*  
*2020 7th International Conference on Electrical and Electronics Engineering (ICEEE)*, res.country(224,)  
**Citations:** N/A  
**DOI:** 10.1109/ICEEE49618.2020.9102611

**Phase angle compensation of virtual impedance for resonance mitigation in DFIG system under weak grid** 2019  
*Zakiud Din Jianzhong Zhang Zheng Xu Yaqian Zhang*  
*8th Renewable Power Generation Conference (RPG 2019)*, res.country(48,)  
**Citations:** N/A  
**DOI:** 10.1049/cp.2019.0334

**A Reactive Compensation Method Using Switch Controlled Capacitor for Wireless Power Transfer** 2019

Jin Zhao Jianzhong Zhang Yaqian Zhang Zakiud Din Jatskevich Juri  
2019 IEEE Energy Conversion Congress and Exposition, ECCE 2019, res.country(233,)

Citations: N/A

DOI: 10.1109/ECCE.2019.8912183

**Desig and Implementation of High Frequency Power Supply with Constant Power Output for Plasma Applications**

2018

Jin Zhao Jianzhong Zhang Zakiud Din Zhengguo Qian

2018 IEEE Energy Conversion Congress and Exposition, ECCE 2018, res.country(233,)

Citations: N/A

DOI: 10.1109/ECCE.2018.8557948

**Doubly Fed Induction Generator with Cascade Converter for Improving Dynamic Performances**

2018

Zakiud Din Jianzhong Zhang Jin Zhao Yongjiang Jiang

2018 IEEE Energy Conversion Congress and Exposition, ECCE 2018, res.country(233,)

Citations: N/A

DOI: 10.1109/ECCE.2018.8558069

**A Compound 10kV DVR System based on Solid State Transformer Structure**

2018

Yaqian Zhang Jianzhong Zhang Xing Hu Zakiud Din

2018 International Power Electronics Conference, IPEC-Niigata - ECCE Asia 2018, res.country(113,)

Citations: N/A

DOI: 10.23919/IPEC.2018.8507539

## Editorial Activities

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**IEEE Transactions on Sustainable Energy**

2025

Reviewed Papers for Journals

Impact Factor: 10.0

**IEEE Transactions on Sustainable Energy**

2025

Reviewed Papers for Journals

Impact Factor: 3.7

**IEEE Transactions on Power Delivery**

2025

Reviewed Papers for Journals

Impact Factor: 3.7

**Energy Science & Engineering**

2025

Reviewed Papers for Journals

Impact Factor: 3.4

**IEEE Transactions on Industrial Electronics**

2025

Reviewed Papers for Journals

Impact Factor: 7.2

**IEEE Transactions on Power Electronics**

2025

Reviewed Papers for Journals

Impact Factor: 6.6

**IEEE Transactions on Power Electronics**

2025

Reviewed Papers for Journals

Impact Factor: 7.5

**IEEE Transactions on Power Electronics**

2025

Reviewed Papers for Journals

Impact Factor: 6.6

**IEEE Transactions on Power Electronics**

2025

Reviewed Papers for Journals

Impact Factor: 6.6

**IET Renewable Power Generation**

2025

Reviewed Papers for Journals

Impact Factor: 2.6

**IEEE Transactions on Power Electronics**

2025

Reviewed Papers for Journals

<b>Impact Factor: 6.7</b>	
<b>IEEE Transactions on Transportation Electrification</b>	2025
Reviewed Papers for Journals	
<b>Impact Factor: 0.7</b>	
<b>IEEE Access</b>	2025
Reviewed Papers for Journals	
<b>Impact Factor: 9.4</b>	
<b>IEEE Access</b>	2025
Reviewed Papers for Journals	
<b>Impact Factor: 3.4</b>	
<b>IEEE Access</b>	2025
Reviewed Papers for Journals	
<b>Impact Factor: 3.4</b>	
<b>Energies</b>	2025
Reviewed Papers for Journals	
<b>Impact Factor: 3.2</b>	
<b>IEEE Transactions on Transportation Electrification</b>	2024
Reviewed Papers for Journals	
<b>Impact Factor: 7</b>	
<b>Electrical Engineering</b>	2024
Reviewed Papers for Journals	
<b>Impact Factor: 1.6</b>	
<b>Electric Power Systems Research</b>	2024
Reviewed Papers for Journals	
<b>Impact Factor: 3.9</b>	
	2024
Reviewed Papers for Journals	
<b>Impact Factor: N/A</b>	
<b>IEEE Access</b>	2024
Reviewed Papers for Journals	
<b>Impact Factor: 3.9</b>	
<b>Engineering Applications of Artificial Intelligence</b>	2024
Reviewed Papers for Journals	
<b>Impact Factor: 8</b>	
<b>IEEE Access</b>	2024
Reviewed Papers for Journals	
<b>Impact Factor: 3.9</b>	
<b>Engineering Applications of Artificial Intelligence</b>	2024
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<b>Impact Factor: 7.5</b>	
<b>Engineering Applications of Artificial Intelligence</b>	2024
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<b>Impact Factor: 7.5</b>	
<b>IEEE Access</b>	2024
Reviewed Papers for Journals	
<b>Impact Factor: 3.4</b>	
<b>IEEE Access</b>	2024
Reviewed Papers for Journals	
<b>Impact Factor: 3.9</b>	
<b>IEEE Access</b>	2024
Reviewed Papers for Journals	
<b>Impact Factor: 3.9</b>	
<b>Sustainability</b>	2024

Edited Journal Issue / Proceeding / Book	
<b>Impact Factor: 3.3</b>	
<b>IEEE Access</b>	2024
Reviewed Papers for Journals	
<b>Impact Factor: 3.9</b>	
<b>Engineering Applications of Artificial Intelligence</b>	2023
Reviewed Papers for Journals	
<b>Impact Factor: 7.5</b>	
<b>Electronics</b>	2023
Reviewed Papers for Journals	
<b>Impact Factor: 2.9</b>	
<b>Sustainability</b>	2023
Reviewed Papers for Journals	
<b>Impact Factor: 3.9</b>	
<b>Journal of Energy Storage</b>	2023
Reviewed Papers for Journals	
<b>Impact Factor: 9.4</b>	
<b>International Journal of Electrical Power &amp; Energy Systems</b>	2023
Reviewed Papers for Journals	
<b>Impact Factor: 5.2</b>	
<b>IEEE Acces</b>	2023
Reviewed Papers for Journals	
<b>Impact Factor: 3.9</b>	
<b>Energies</b>	2023
Reviewed Papers for Journals	
<b>Impact Factor: 3.2</b>	
<b>Engineering Applications of Artificial Intelligence</b>	2023
Reviewed Papers for Journals	
<b>Impact Factor: 8.0</b>	
<b>Engineering Applications of Artificial Intelligence</b>	2023
Reviewed Papers for Journals	
<b>Impact Factor: 8.0</b>	
<b>Energies</b>	2023
Reviewed Papers for Journals	
<b>Impact Factor: 3.2</b>	
<b>Energies</b>	2023
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<b>Impact Factor: 3.2</b>	
<b>Energies</b>	2023
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<b>Impact Factor: 3.2</b>	
<b>Sustainability</b>	2023
Reviewed Papers for Journals	
<b>Impact Factor: 3.9</b>	
<b>Mathematical Problems in Engineering</b>	2023
Reviewed Papers for Journals	
<b>Impact Factor: 1.430</b>	
<b>International Journal of Electrical Power &amp; Energy Systems</b>	2023
Reviewed Papers for Journals	
<b>Impact Factor: 5.2</b>	
<b>International Transactions on Electrical Energy Systems</b>	2023
Reviewed Papers for Journals	
<b>Impact Factor: 2.3</b>	

<b>IEEE Access</b>	2023
Reviewed Papers for Journals	
<b>Impact Factor: 3.9</b>	
<b>Energies</b>	2023
Reviewed Papers for Journals	
<b>Impact Factor: 3.2</b>	
<b>International Journal of Photoenergy</b>	2023
Reviewed Papers for Journals	
<b>Impact Factor: 3.2</b>	
<b>Energies</b>	2023
Reviewed Papers for Journals	
<b>Impact Factor: 3.2</b>	
<b>Energies</b>	2023
Reviewed Papers for Journals	
<b>Impact Factor: 3.2</b>	
<b>International Transactions on Electrical Energy Systems</b>	2023
Reviewed Papers for Journals	
<b>Impact Factor: 2.3</b>	
<b>IEEE Access</b>	2023
Reviewed Papers for Journals	
<b>Impact Factor: 3.9</b>	
<b>International Journal of Electrical Power &amp; Energy Systems</b>	2023
Reviewed Papers for Journals	
<b>Impact Factor: 5.2</b>	
<b>Frontiers in Energy Research</b>	2023
Reviewed Papers for Journals	
<b>Impact Factor: 3.4</b>	
<b>International Journal of Electrical Power &amp; Energy Systems</b>	2023
Reviewed Papers for Journals	
<b>Impact Factor: 5.2</b>	
<b>International Journal of Robust and Nonlinear Control</b>	2022
Reviewed Papers for Journals	
<b>Impact Factor: 3.9</b>	
<b>Energies</b>	2022
Reviewed Papers for Journals	
<b>Impact Factor: 3.2</b>	
<b>International Journal of Electrical Power &amp; Energy Systems</b>	2022
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<b>Impact Factor: 5.2</b>	
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<b>Frontiers in Energy Research</b>	2022
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<b>Impact Factor: 3.4</b>	