Imran Khan

List of Publications by Citations

39 papers	560 citations	12 h-index	23 g-index
41 ext. papers	763 ext. citations	6.1 avg, IF	6.06 L-index

#	Paper	IF	Citations
39	Waste-to-energy generation technologies and the developing economies: A multi-criteria analysis for sustainability assessment. *Renewable Energy*, **2020**, 150, 320-333	8.1	76
38	Power generation expansion plan and sustainability in a developing country: A multi-criteria decision analysis. *Journal of Cleaner Production*, **2019**, 220, 707-720	10.3	60
37	Analysis of greenhouse gas emissions in electricity systems using time-varying carbon intensity. *Journal of Cleaner Production*, **2018**, 184, 1091-1101	10.3	57
36	Importance of GHG emissions assessment in the electricity grid expansion towards a low-carbon future: A time-varying carbon intensity approach. *Journal of Cleaner Production*, **2018**, 196, 1587-1599	10.3	49
35	Energy-saving behaviour as a demand-side management strategy in the developing world: the case of Bangladesh. *International Journal of Energy and Environmental Engineering*, **2019**, 10, 493-510	4	36
34	Drivers, enablers, and barriers to prosumerism in Bangladesh: A sustainable solution to energy poverty?. *Energy Research and Social Science*, **2019**, 55, 82-92	7.7	33
33	Impacts of energy decentralization viewed through the lens of the energy cultures framework: Solar home systems in the developing economies. *Renewable and Sustainable Energy Reviews*, **2020**, 119, 109576	16.2	27
32	Waste to biogas through anaerobic digestion: Hydrogen production potential in the developing world - A case of Bangladesh. *International Journal of Hydrogen Energy*, **2020**, 45, 15951-15962	6.7	25
31	Greenhouse gas emission accounting approaches in electricity generation systems: A review. *Atmospheric Environment*, **2019**, 200, 131-141	5.3	25
30	Sustainability challenges for the south Asia growth quadrangle: A regional electricity generation sustainability assessment. *Journal of Cleaner Production*, **2020**, 243, 118639	10.3	24
29	Household factors and electrical peak demand: a review for further assessment. *Advances in Building Energy Research*, **2019**, 1-33	1.8	15
28	Identifying residential daily electricity-use profiles through time-segmented regression analysis. *Energy and Buildings*, **2019**, 194, 232-246	7	15
27	Critiquing social impact assessments: Ornamentation or reality in the Bangladeshi electricity infrastructure sector?. *Energy Research and Social Science*, **2020**, 60, 101339	7.7	12
26	Bioethanol production potential in Bangladesh from wild date palm (Phoenix sylvestris Roxb.): An experimental proof. *Industrial Crops and Products*, **2019**, 139, 111507	5.9	11
25	Environmental impact assessment of waste to energy projects in developing countries: General guidelines in the context of Bangladesh. *Sustainable Energy Technologies and Assessments*, **2020**, 37, 100619	4.7	11
24	Temporal carbon intensity analysis: renewable versus fossil fuel dominated electricity systems. *Energy Sources, Part A: Recovery, Utilization and Environmental Effects*, **2018**, 1-15	1.6	11
23	Problematizing solar energy in Bangladesh: Benefits, burdens, and electricity access through solar home systems in remote islands. *Energy Research and Social Science*, **2021**, 74, 101969	7.7	10

22	Potential measurement techniques for photovoltaic module failure diagnosis: A review. *Renewable and Sustainable Energy Reviews*, **2021**, 151, 111532	16.2	9
21	Nano-layered surface plasmon resonance-based highly sensitive biosensor for virus detection: A theoretical approach to detect SARS-CoV-2. *AIP Advances*, **2021**, 11, 065023	1.5	8
20	Multi-criteria decision analysis methods for energy sectors sustainability assessment: Robustness analysis through criteria weight change. *Sustainable Energy Technologies and Assessments*, **2021**, 47, 101380	4.7	7
19	Dominant factors for targeted demand side management: An alternate approach for residential demand profiling in developing countries. *Sustainable Cities and Society*, **2021**, 67, 102693	10.1	6
18	Effect of layer thickness variation on sensitivity: An SPR based sensor for formalin detection. *Sensing and Bio-Sensing Research*, **2021**, 32, 100419	3.3	5
17	Powering agriculture: Present status, future potential, and challenges of renewable energy applications. *Renewable Energy*, **2022**, 188, 731-749	8.1	5
16	Barriers to Electric Vehicle Adoption in Thailand. *Sustainability*, **2021**, 13, 12839	3.6	4
15	Wavelength tunable TFBG based microwave sensor using surface plasmon resonance. *Egyptian Journal of Remote Sensing and Space Science*, **2016**, 19, 1-6	3.4	3
14	A survey-based electricity demand profiling method for developing countries: The case of urban households in Bangladesh. *Journal of Building Engineering*, **2021**, 42, 102507	5.2	3
13	Ensuring power quality and demand-side management through IoT-based smart meters in a developing country. *Energy*, **2022**, 250, 123747	7.9	3
12	Data and method for assessing the sustainability of electricity generation sectors in the south Asia growth quadrangle. *Data in Brief*, **2020**, 28, 104808	1.2	2
11	Sustainable Energy Infrastructure Planning Framework: Transition to a Sustainable Electricity Generation System in Bangladesh. *Advanced Sciences and Technologies for Security Applications*, **2021**, 173-198	0.6	2
10	Waste to Energy in Developing Countries: A Rapid Review: Opportunities, Challenges, and Policies in Selected Countries of Sub-Saharan Africa and South Asia towards Sustainability. *Sustainability*, **2022**, 14, 3740	3.6	2
9	**2017**,		1
8	Optical fiber based microwaves sensor using surface plasmon resonance **2012**,		1
7	Factors dominating peak electricity demand in Bangladeshi urban households: an assessment through the energy cultures framework. *Energy Sources, Part B: Economics, Planning and Policy*, **2021**, 16, 279-299	3.1	1
6	COVID-19 pandemic, lockdown, and consequences for a fossil fuel-dominated electricity system. *AIP Advances*, **2021**, 11, 055307	1.5	1
5	Sustainability assessment of energy systems: Indicators, methods, and applications **2021**, 47-70		

4 An overview of policy framework and measures promoting bioenergy usage in the EU, the United States, and Canada **2021**, 425-463

3 The role of energy storage technologies for sustainability in developing countries **2022**, 347-376

2 Environmental, social, and economic impacts of renewable energy sources **2022**, 57-85

1 Sustainability---Concept and its application in the energy sector **2022**, 1-22