

Kua-anan Techato

List of Publications by Year in Descending Order

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Version: 2024-04-10

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

113 papers	1,504 citations	19 h-index	36 g-index
124 ext. papers	2,439 ext. citations	3.9 avg, IF	5.63 L-index

#	Paper	IF	Citations
113	DYNAMIC SIMULATION AND RANKING OF USING RESIDENTIAL-SCALE SOLAR WATER HEATER IN IRAN. <i>Journal of Environmental Engineering and Landscape Management</i> , 2022 , 30, 30-42	1.1	3
112	Blockchain Technology Application Challenges in Renewable Energy Supply Chain Management.. <i>Environmental Science and Pollution Research</i> , 2022 , 1	5.1	5
111	A Thorough Economic Evaluation by Implementing Solar/Wind Energies for Hydrogen Production: A Case Study. <i>Sustainability</i> , 2022 , 14, 1177	3.6	4
110	Variability of climate-induced rice yields in northwest Bangladesh using multiple statistical modeling. <i>Theoretical and Applied Climatology</i> , 2022 , 147, 1263-1276	3	1
109	Use of hybrid MCDM methods for site location of solar-powered hydrogen production plants in Uzbekistan. <i>Sustainable Energy Technologies and Assessments</i> , 2022 , 52, 101979	4.7	4
108	Contribution of Community-Managed Sal-Based Forest in Climate Change Adaptation and Mitigation: A Case from Nepal. <i>Forests</i> , 2022 , 13, 262	2.8	1
107	A Review of Heat Batteries Based PV Module Cooling Case Studies on Performance Enhancement of Large-Scale Solar PV System. <i>Sustainability</i> , 2022 , 14, 1963	3.6	1
106	A conceptual new model for use of solar water heaters in hot and dry regions. <i>Sustainable Energy Technologies and Assessments</i> , 2022 , 49, 101710	4.7	6
105	FDI, Green Innovation and Environmental Quality Nexus: New Insights from BRICS Economies. <i>Sustainability</i> , 2022 , 14, 2181	3.6	6
104	Assessment of Suitable Areas for Smart Grid of Power Generated from Renewable Energy Resources in Western Uganda. <i>Energies</i> , 2022 , 15, 1595	3.1	0
103	Characteristics of Biochars Derived from the Pyrolysis and Co-Pyrolysis of Rubberwood Sawdust and Sewage Sludge for Further Applications. <i>Sustainability</i> , 2022 , 14, 3829	3.6	4
102	Environmental geochemistry of higher radioactivity in a transboundary Himalayan river sediment (Brahmaputra, Bangladesh): potential radiation exposure and health risks.. <i>Environmental Science and Pollution Research</i> , 2022 , 1	5.1	3
101	Assessment of Heavy Metals in Agricultural Soils and Plant (<i>Vernonia amygdalina</i> Delile) in Port Harcourt Metropolis, Nigeria. <i>Agriculture (Switzerland)</i> , 2022 , 12, 27	3	2
100	Determination of optimal renewable energy growth strategies using SWOT analysis, hybrid MCDM methods, and game theory: A case study. <i>International Journal of Energy Research</i> , 2022 , 46, 6766-6789	4.5	5
99	Waste to Energy in Developing CountriesA Rapid Review: Opportunities, Challenges, and Policies in Selected Countries of Sub-Saharan Africa and South Asia towards Sustainability. <i>Sustainability</i> , 2022 , 14, 3740	3.6	2
98	Effect of KOH concentration on the properties of ZnO nanoparticles. <i>Materials Research Express</i> , 2022 , 9, 055004	1.7	0
97	Suitable Site Selection for Solar-Based Green Hydrogen in Southern Thailand Using GIS-MCDM Approach. <i>Sustainability</i> , 2022 , 14, 6597	3.6	1

96	Influence/Effect of Deep-Level Defect of Absorber Layer and n/i Interface on the Performance of Antimony Triselenide Solar Cells by Numerical Simulation. <i>Sustainability</i> , 2022 , 14, 6780	3.6	0
95	Design and Modelling of Eco-Friendly CH ₃ NH ₃ SnI ₃ -Based Perovskite Solar Cells with Suitable Transport Layers. <i>Energies</i> , 2021 , 14, 7200	3.1	2
94	Assessing Farmers' Typologies of Perception for Adopting Sustainable Adaptation Strategies in Bangladesh. <i>Climate</i> , 2021 , 9, 167	3.1	3
93	Toxicity and Risks Assessment of Polycyclic Aromatic Hydrocarbons in River Bed Sediments of an Artisanal Crude Oil Refining Area in the Niger Delta, Nigeria. <i>Water (Switzerland)</i> , 2021 , 13, 3295	3	4
92	Spatiotemporal distribution of drought and its possible associations with ENSO indices in Bangladesh. <i>Arabian Journal of Geosciences</i> , 2021 , 14, 1	1.8	6
91	Implementing MCDM Techniques for Ranking Renewable Energy Projects under Fuzzy Environment: A Case Study. <i>Sustainability</i> , 2021 , 13, 12858	3.6	3
90	Barriers to Electric Vehicle Adoption in Thailand. <i>Sustainability</i> , 2021 , 13, 12839	3.6	4
89	An Effective Evaluation on Fault Detection in Solar Panels. <i>Energies</i> , 2021 , 14, 7770	3.1	6
88	A Novel 10 kW Vertical Axis Wind Tree Design: Economic Feasibility Assessment. <i>Sustainability</i> , 2021 , 13, 12720	3.6	0
87	Utilization of Cassava Wastewater for Low-Cost Production of Prodigiosin via TNU01 Fermentation and Its Novel Potent α -Glucosidase Inhibitory Effect. <i>Molecules</i> , 2021 , 26,	4.8	4
86	Determine the Land-Use Land-Cover Changes, Urban Expansion and Their Driving Factors for Sustainable Development in Gazipur Bangladesh. <i>Atmosphere</i> , 2021 , 12, 1353	2.7	5
85	Efficient heat batteries for performance boosting in solar thermal cooking module. <i>Journal of Cleaner Production</i> , 2021 , 324, 129223	10.3	2
84	Spatial Pattern of Air Pollutant Concentrations and Their Relationship with Meteorological Parameters in Coastal Slum Settlements of Lagos, Southwestern Nigeria. <i>Atmosphere</i> , 2021 , 12, 1426	2.7	0
83	Energy-Based Combined Nonlinear Observer and Voltage Controller for a PMSG Using Fuzzy Supervisor High Order Sliding Mode in a Marine Current Power System. <i>Sustainability</i> , 2021 , 13, 3737	3.6	3
82	Adaptive Robust Trajectory Tracking Control of Multiple Quad-Rotor UAVs with Parametric Uncertainties and Disturbances. <i>Sensors</i> , 2021 , 21,	3.8	9
81	Ranking Locations for Hydrogen Production Using Hybrid Wind-Solar: A Case Study. <i>Sustainability</i> , 2021 , 13, 4524	3.6	19
80	Nonlinear Control of Hydrostatic Thrust Bearing Using Multivariable Optimization. <i>Mathematics</i> , 2021 , 9, 903	2.3	2
79	Forecasting Rainfed Agricultural Production in Arid and Semi-Arid Lands Using Learning Machine Methods: A Case Study. <i>Sustainability</i> , 2021 , 13, 4607	3.6	2

78	Fuzzy Supervisory Passivity-Based High Order-Sliding Mode Control Approach for Tidal Turbine-Based Permanent Magnet Synchronous Generator Conversion System. <i>Actuators</i> , 2021 , 10, 92	2.4	4
77	The Effect of Plants on the Energy Output of Green Roof Photovoltaic Systems in Tropical Climates. <i>Sustainability</i> , 2021 , 13, 4505	3.6	7
76	Eco-Friendly Reduced Graphene Oxide Nanofilter Preparation and Application for Iron Removal. <i>Separations</i> , 2021 , 8, 68	3.1	5
75	Current stress and switching loss evaluation of a unified expandable power converter used for grid-integration of renewable energy sources. <i>IET Renewable Power Generation</i> , 2021 , 15, 2561-2570	2.9	1
74	A thorough investigation for development of hydrogen projects from wind energy: A case study. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 18795-18815	6.7	24
73	Physicochemical Characterisation and the Prospects of Biofuel Production from Rubberwood Sawdust and Sewage Sludge. <i>Sustainability</i> , 2021 , 13, 5942	3.6	2
72	Performance optimization of a new flash-binary geothermal cycle for power/hydrogen production with zeotropic fluid. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 145, 1633-1650	4.1	6
71	Technical, economic, carbon footprint assessment, and prioritizing stations for hydrogen production using wind energy: A case study. <i>Energy Strategy Reviews</i> , 2021 , 36, 100684	9.8	15
70	Artificial Intelligence Integrated Fractional Order Control of Doubly Fed Induction Generator-Based Wind Energy System. <i>IEEE Access</i> , 2021 , 9, 5734-5748	3.5	14
69	Energy Sustainability Survey on Technology and Control of Microgrid, Smart Grid and Virtual Power Plant. <i>IEEE Access</i> , 2021 , 9, 104663-104694	3.5	2
68	Forest Cover Change and Ecosystem Services: A Case Study of Community Forest in Mechinagar and Buddhashanti Landscape (MBL), Nepal. <i>Environmental Management</i> , 2021 , 67, 963-973	3.1	5
67	Recovery of FTO coated glass substrate environment-friendly facile recycling perovskite solar cells.. <i>RSC Advances</i> , 2021 , 11, 14534-14541	3.7	5
66	Effect of Cd ²⁺ Molar Concentration in Cd _x Zn _(1-x) S Thin Film by Chemical Bath Deposition Technique Using Alternative Sulfur Precursor. <i>ECS Journal of Solid State Science and Technology</i> , 2021 , 10, 025009	2	4
65	A Novel Policy to Optimize Energy Consumption for Dairy Product Warehouses: A Case Study. <i>Sustainability</i> , 2021 , 13, 2445	3.6	1
64	The intention of households in the Daklak province to instal smart grid rooftop solar electricity systems. <i>Energy, Sustainability and Society</i> , 2021 , 11,	3.9	2
63	Monitoring of Field Patrolling Efforts, Vietnam: Insights from a Forest Station in Pu Hu Nature Reserve. <i>Sustainability</i> , 2021 , 13, 8407	3.6	0
62	Spatial Assessment of Para Rubber (<i>Hevea brasiliensis</i>) above Ground Biomass Potentials in Songkhla Province, Southern Thailand. <i>Sustainability</i> , 2021 , 13, 9344	3.6	
61	Enhanced Direct Reactive Power Control-Based Multi-Level Inverter for DFIG Wind System under Variable Speeds. <i>Sustainability</i> , 2021 , 13, 9060	3.6	9

60	Techno-economic analysis and energy performance of a geothermal earth-to-air heat exchanger (EAHE) system in residential buildings: A case study. <i>Energy Science and Engineering</i> , 2021 , 9, 1807	3.4	2
59	Valorization of rubberwood sawdust and sewage sludge by pyrolysis and co-pyrolysis using agitated bed reactor for producing biofuel or value-added products. <i>Environmental Science and Pollution Research</i> , 2021 , 29, 1338	5.1	3
58	Use of a Hybrid WindSolarDieselBattery Energy System to Power Buildings in Remote Areas: A Case Study. <i>Sustainability</i> , 2021 , 13, 8764	3.6	10
57	Relationship between Starting Torque and Thermal Behaviour for a Permanent Magnet Synchronous Generator (PMSG) Applied with Vertical Axis Wind Turbine (VAWT). <i>Sustainability</i> , 2021 , 13, 9151	3.6	1
56	Bioproduction of Prodigiosin from Fishery Processing Waste Shrimp Heads and Evaluation of Its Potential Bioactivities. <i>Fishes</i> , 2021 , 6, 30	2.5	7
55	Wind Energy Analysis in the Coastal Region of Bangladesh. <i>Energies</i> , 2021 , 14, 5628	3.1	1
54	Energy Management System for Hybrid PV/Wind/Battery/Fuel Cell in Microgrid-Based Hydrogen and Economical Hybrid Battery/Super Capacitor Energy Storage. <i>Energies</i> , 2021 , 14, 5722	3.1	4
53	A Systematic Review of Key Challenges in Hybrid HVACBHVDC Grids. <i>Energies</i> , 2021 , 14, 5451	3.1	5
52	A thorough analysis of renewable hydrogen projects development in Uzbekistan using MCDM methods. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 31174-31190	6.7	13
51	Advancing HouseholdsSustainable Energy through Gender Attitudes towards Rooftop PV Installations: A Case of the Central Highlands, Vietnam. <i>Sustainability</i> , 2021 , 13, 942	3.6	1
50	A strategic model to identify the factors and risks of solar cooker manufacturing and use: A case study of Razavi Khorasan, Iran. <i>Energy Strategy Reviews</i> , 2021 , 33, 100587	9.8	2
49	Drought monitoring based on Standardized Precipitation Index and Standardized Precipitation Evapotranspiration Index in the arid zone of Balochistan province, Pakistan. <i>Arabian Journal of Geosciences</i> , 2021 , 14, 1	1.8	10
48	Comparative studies on the morphological, structural and optical properties of NiO thin films grown by vacuum and non-vacuum deposition techniques. <i>Materials Research Express</i> , 2021 , 8, 126404	1.7	0
47	Role of a Mine in Changing Its SurroundingsLand Use and Land Cover and Impact on the Natural Environment in Barapukuria, Bangladesh. <i>Sustainability</i> , 2021 , 13, 13602	3.6	
46	A computationally efficient robust voltage control for a single phase dual active bridge. <i>Energy Reports</i> , 2020 , 6, 3346-3356	4.6	2
45	Statistical evaluation of using the new generation of wind turbines in South Africa. <i>Energy Reports</i> , 2020 , 6, 2816-2827	4.6	45
44	A Thorough Analysis of Potential Geothermal Project Locations in Afghanistan. <i>Sustainability</i> , 2020 , 12, 8397	3.6	17
43	. <i>IEEE Access</i> , 2020 , 8, 19410-19432	3.5	101

42	Theoretical Hydrokinetic Power Potential Assessment of the U-Tapao River Basin Using GIS. <i>Energies</i> , 2020 , 13, 1749	3.1	8
41	Energy conversion from wastewater sewage sludge. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2020 , 15, e2491	1.3	1
40	Development of an O-ring from NR/EPDM filled silica/CB hybrid filler for use in a solid oxide fuel cell testing system. <i>Polymer Testing</i> , 2020 , 88, 106568	4.5	2
39	Syngas Production from Rubberwood Biomass in Downdraft Gasifier Combined with Wet Scrubbing: Investigation of Tar and Solid Residue 2020 , 49, 1729-1743		3
38	Ranking Potential Renewable Energy Systems to Power On-Farm Fertilizer Production. <i>Sustainability</i> , 2020 , 12, 7850	3.6	4
37	Indoor spray and windows screens effects on dengue vector density after space spraying in a field trial. <i>Asian Pacific Journal of Tropical Medicine</i> , 2020 , 13, 24	2.1	
36	An overview of solar photovoltaic panelsEnd-of-life material recycling. <i>Energy Strategy Reviews</i> , 2020 , 27, 100431	9.8	125
35	Preparation and characterization of polymer electrolyte membrane from chloroacetate chitosan/chitosan blended with epoxidized natural rubber. <i>Polymer Testing</i> , 2020 , 82, 106294	4.5	5
34	Effect of deep-level defect density of the absorber layer and n/i interface in perovskite solar cells by SCAPS-1D. <i>Results in Physics</i> , 2020 , 16, 102839	3.7	35
33	Control Methods for Standalone and Grid Connected Micro-Hydro Power Plants With Synthetic Inertia Frequency Support: A Comprehensive Review. <i>IEEE Access</i> , 2020 , 8, 176313-176329	3.5	9
32	The Effect of Retail Electricity Price Levels on the FI Values of Smart-Grid Rooftop Solar Power Systems: A Case Study in the Central Highlands of Vietnam. <i>Sustainability</i> , 2020 , 12, 9209	3.6	5
31	Effect of Copper Contamination on Plant Growth and Metal Contents in Rice Plant (<i>Oryza Sativa</i> L.). <i>Communications in Soil Science and Plant Analysis</i> , 2020 , 51, 2349-2360	1.5	5
30	Tailoring of the Structural and Optoelectronic Properties of Zinc-Tin-Oxide Thin Films via Oxygenation Process for Solar Cell Application. <i>IEEE Access</i> , 2020 , 8, 193560-193568	3.5	9
29	Industrial Grade Adaptive Control Scheme for a Micro-Grid Integrated Dual Active Bridge Driven Battery Storage System. <i>IEEE Access</i> , 2020 , 8, 210435-210451	3.5	8
28	Simultaneous appraisals of pathway and probable health risk associated with trace metals contamination in groundwater from Barapukuria coal basin, Bangladesh. <i>Chemosphere</i> , 2020 , 242, 125183	8.4	50
27	Current trends and prospects of tidal energy technology. <i>Environment, Development and Sustainability</i> , 2020 , 23, 1-16	4.5	24
26	An analysis of the smallholder farmersCassava (<i>Manihot esculenta</i> Crantz) value chain through a gender perspective: the case of Dak Lak province, Vietnam. <i>Cogent Economics and Finance</i> , 2019 , 7, 1645632	1.4	3
25	Municipal solid waste landfill siting using an integrated GIS-AHP approach: A case study from Songkhla, Thailand. <i>Resources, Conservation and Recycling</i> , 2019 , 149, 220-235	11.9	59

24	A Grid-Connected Smart Extendable Structure for Hybrid Integration of Distributed Generations. <i>IEEE Access</i> , 2019 , 7, 105235-105246	3.5	3
23	Consumer buying behaviour and social responsibility in respect of organic foods: cross-cultural evidence. <i>International Journal of Agricultural Resources, Governance and Ecology</i> , 2019 , 15, 145	0.2	1
22	GIS based site suitability assessment for wind and solar farms in Songkhla, Thailand. <i>Renewable Energy</i> , 2019 , 132, 1360-1372	8.1	87
21	Distribution of naturally occurring radionuclides in soil around a coal-based power plant and their potential radiological risk assessment. <i>Radiochimica Acta</i> , 2019 , 107, 243-259	1.9	26
20	Suitability of municipal solid waste in African cities for thermochemical waste-to-energy conversion: The case of Harare Metropolitan City, Zimbabwe. <i>Waste Management and Research</i> , 2019 , 37, 83-94	4	21
19	Recovery of Kraft Lignin from OPEFB and Using for Lignin Agarose Hydrogel. <i>Journal of Polymers and the Environment</i> , 2018 , 26, 3307-3315	4.5	6
18	Lignin: Isolation and preparing the lignin based hydrogel. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 5879-5888	6.8	46
17	The Gambia's future electricity supply system: Optimizing power supply for sustainable development. <i>Energy Strategy Reviews</i> , 2018 , 20, 179-194	9.8	3
16	Direct Probabilistic Load Flow in Radial Distribution Systems Including Wind Farms: An Approach Based on Data Clustering. <i>Energies</i> , 2018 , 11, 310	3.1	17
15	Spatial and Temporal Variation of NDVI in Response to Climate Change and the Implication for Carbon Dynamics in Nepal. <i>Forests</i> , 2018 , 9, 329	2.8	29
14	Assessment of land use suitability for natural rubber using GIS in the U-tapao River basin, Thailand. <i>Kasetsart Journal of Social Sciences</i> , 2018 ,	0	4
13	The evolution of waste-to-energy incineration: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 91, 812-821	16.2	204
12	Prospects of green roofs in urban Thailand A multi-criteria decision analysis. <i>Journal of Cleaner Production</i> , 2018 , 196, 400-410	10.3	32
11	Evaluating the Potential Reutilizing of Fly Ash and Bottom Ash in Thailand. <i>Iranian Journal of Public Health</i> , 2018 , 47, 917-918	0.7	1
10	Assessment of natural radioactivity in coals and coal combustion residues from a coal-based thermoelectric plant in Bangladesh: implications for radiological health hazards. <i>Environmental Monitoring and Assessment</i> , 2018 , 191, 27	3.1	19
9	An Overview of Recent Developments in Biomass Pyrolysis Technologies. <i>Energies</i> , 2018 , 11, 3115	3.1	126
8	Material flow analysis as a support tool for multi-criteria analysis in solid waste management decision-making. <i>Resources, Conservation and Recycling</i> , 2018 , 139, 351-365	11.9	30
7	A SPATIAL CLUSTERING APPROACH TO IDENTIFY RISK AREAS OF DENGUE INFECTION AFTER INSECTICIDE SPRAYING. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2016 , 78,	1.2	1

6	High resurgence of dengue vector populations after space spraying in an endemic urban area of Thailand: A cluster randomized controlled trial. <i>Asian Pacific Journal of Tropical Biomedicine</i> , 2015 , 5, 965-970	1.4	5
5	Heat Pump Market in Thailand. <i>Energy Procedia</i> , 2012 , 14, 9-13	2.3	1
4	Using Vertical Green as Material for Complying Building Energy Code. <i>Advanced Materials Research</i> , 2012 , 622-623, 1035-1038	0.5	1
3	Life cycle analysis of retrofitting with high energy efficiency air-conditioner and fluorescent lamp in existing buildings. <i>Energy Policy</i> , 2009 , 37, 318-325	7.2	20
2	S-Scheme $\text{Fe}_2\text{O}_3/\text{TiO}_2$ Photocatalyst with Pd Cocatalyst for Enhanced Photocatalytic H_2 Production Activity and Stability. <i>Catalysis Letters</i> ,	2.8	2
1	Techno-Economic Investigation of Using Solar Energy for Heating Swimming Pools in Buildings and Producing Hydrogen: A Case Study. <i>Frontiers in Energy Research</i> , 9,	3.8	3