

Kua-anan Techato

List of Publications by Year in descending order

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Version: 2024-02-01

122
papers

3,598
citations

172457

29
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161849

54
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124
all docs

124
docs citations

124
times ranked

3092
citing authors

#	ARTICLE	IF	CITATIONS
1	The evolution of waste-to-energy incineration: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 91, 812-821.	16.4	334
2	An overview of solar photovoltaic panels' end-of-life material recycling. <i>Energy Strategy Reviews</i> , 2020, 27, 100431.	7.3	328
3	Microgrid Transactive Energy: Review, Architectures, Distributed Ledger Technologies, and Market Analysis. <i>IEEE Access</i> , 2020, 8, 19410-19432.	4.2	223
4	An Overview of Recent Developments in Biomass Pyrolysis Technologies. <i>Energies</i> , 2018, 11, 3115.	3.1	200
5	GIS based site suitability assessment for wind and solar farms in Songkhla, Thailand. <i>Renewable Energy</i> , 2019, 132, 1360-1372.	8.9	153
6	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.	4.1	128
7	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.	10.8	104
8	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.	8.2	95
9	Current trends and prospects of tidal energy technology. <i>Environment, Development and Sustainability</i> , 2021, 23, 8179-8194.	5.0	95
10	Lignin: Isolation and preparing the lignin based hydrogel. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 5879-5888.	6.7	79
11	FDI, Green Innovation and Environmental Quality Nexus: New Insights from BRICS Economies. <i>Sustainability</i> , 2022, 14, 2181.	3.2	76
12	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.	7.3	62
13	Statistical evaluation of using the new generation of wind turbines in South Africa. <i>Energy Reports</i> , 2020, 6, 2816-2827.	5.1	61
14	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.	2.1	58
15	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.	1.2	57
16	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.	7.1	52
17	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.	10.8	51
18	Prospects of green roofs in urban Thailand – A multi-criteria decision analysis. <i>Journal of Cleaner Production</i> , 2018, 196, 400-410.	9.3	47

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19	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	43
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.	3.9	40
21	Use of a Hybrid Windâ€”Solarâ€”Dieselâ€”Battery Energy System to Power Buildings in Remote Areas: A Case Study. <i>Sustainability</i> , 2021, 13, 8764.	3.2	40
22	Blockchain Technology Application Challenges in Renewable Energy Supply Chain Management. <i>Environmental Science and Pollution Research</i> , 2023, 30, 72041-72058.	5.3	39
23	Determination of optimal renewable energy growth strategies using <scp>SWOT</scp> analysis, hybrid <scp>MCDM</scp> methods, and game theory: A case study. <i>International Journal of Energy Research</i> , 2022, 46, 6766-6789.	4.5	38
24	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> , 2019, 191, 27.	2.7	37
25	A thorough analysis of renewable hydrogen projects development in Uzbekistan using MCDM methods. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 31174-31190.	7.1	37
26	An Effective Evaluation on Fault Detection in Solar Panels. <i>Energies</i> , 2021, 14, 7770.	3.1	37
27	Ranking Locations for Hydrogen Production Using Hybrid Wind-Solar: A Case Study. <i>Sustainability</i> , 2021, 13, 4524.	3.2	35
28	Artificial Intelligence Integrated Fractional Order Control of Doubly Fed Induction Generator-Based Wind Energy System. <i>IEEE Access</i> , 2021, 9, 5734-5748.	4.2	33
29	Energy Sustainabilityâ€”Survey on Technology and Control of Microgrid, Smart Grid and Virtual Power Plant. <i>IEEE Access</i> , 2021, 9, 104663-104694.	4.2	30
30	A Thorough Analysis of Potential Geothermal Project Locations in Afghanistan. <i>Sustainability</i> , 2020, 12, 8397.	3.2	29
31	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.	1.3	28
32	Recovery of FTO coated glass substrate <i>via</i> environment-friendly facile recycling perovskite solar cells. <i>RSC Advances</i> , 2021, 11, 14534-14541.	3.6	27
33	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.	3.6	27
34	Waste to Energy in Developing Countriesâ€”A Rapid Review: Opportunities, Challenges, and Policies in Selected Countries of Sub-Saharan Africa and South Asia towards Sustainability. <i>Sustainability</i> , 2022, 14, 3740.	3.2	27
35	Barriers to Electric Vehicle Adoption in Thailand. <i>Sustainability</i> , 2021, 13, 12839.	3.2	26
36	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.	8.8	25

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37	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	25
38	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.	4.2	23
39	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	22
40	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.	2.3	22
41	Implementing MCDM Techniques for Ranking Renewable Energy Projects under Fuzzy Environment: A Case Study. <i>Sustainability</i> , 2021, 13, 12858.	3.2	22
42	A Thorough Economic Evaluation by Implementing Solar/Wind Energies for Hydrogen Production: A Case Study. <i>Sustainability</i> , 2022, 14, 1177.	3.2	22
43	Enhanced Direct Reactive Power Control-Based Multi-Level Inverter for DFIG Wind System under Variable Speeds. <i>Sustainability</i> , 2021, 13, 9060.	3.2	21
44	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.	3.2	20
45	Adaptive Robust Trajectory Tracking Control of Multiple Quad-Rotor UAVs with Parametric Uncertainties and Disturbances. <i>Sensors</i> , 2021, 21, 2401.	3.8	18
46	Recovery of Kraft Lignin from OPEFB and Using for Lignin- α -Agarose Hydrogel. <i>Journal of Polymers and the Environment</i> , 2018, 26, 3307-3315.	5.0	17
47	Bioproduction of Prodigiosin from Fishery Processing Waste Shrimp Heads and Evaluation of Its Potential Bioactivities. <i>Fishes</i> , 2021, 6, 30.	1.7	17
48	The Effect of Plants on the Energy Output of Green Roof Photovoltaic Systems in Tropical Climates. <i>Sustainability</i> , 2021, 13, 4505.	3.2	16
49	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> , 2022, 152, 2590-2606.	2.6	16
50	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.	4.2	15
51	Forecasting Rainfed Agricultural Production in Arid and Semi-Arid Lands Using Learning Machine Methods: A Case Study. <i>Sustainability</i> , 2021, 13, 4607.	3.2	15
52	Utilization of Cassava Wastewater for Low-Cost Production of Prodigiosin via <i>Serratia marcescens</i> TNU01 Fermentation and Its Novel Potent α -Glucosidase Inhibitory Effect. <i>Molecules</i> , 2021, 26, 6270.	3.8	15
53	Spatiotemporal distribution of drought and its possible associations with ENSO indices in Bangladesh. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1.	1.3	15
54	Environmental and Human Microbiome for Health. <i>Life</i> , 2022, 12, 456.	2.4	15

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55	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, 29, 57357-57375.	5.3	15
56	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.	3.1	15
57	Suitable Site Selection for Solar-Based Green Hydrogen in Southern Thailand Using GIS-MCDM Approach. <i>Sustainability</i> , 2022, 14, 6597.	3.2	15
58	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.	4.2	14
59	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.	2.7	14
60	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.	2.7	14
61	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.	3.2	13
62	Physicochemical Characterisation and the Prospects of Biofuel Production from Rubberwood Sawdust and Sewage Sludge. <i>Sustainability</i> , 2021, 13, 5942.	3.2	13
63	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> , 2022, 29, 1338-1363.	5.3	12
64	Phthalate Esters in Tap Water, Southern Thailand: Daily Exposure and Cumulative Health Risk in Infants, Lactating Mothers, Pregnant and Nonpregnant Women. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 2187.	2.6	12
65	An economic investigation of the wind-hydrogen projects: A case study. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 25880-25898.	7.1	12
66	Preparation and characterization of polymer electrolyte membrane from chloroacetate chitosan/chitosan blended with epoxidized natural rubber. <i>Polymer Testing</i> , 2020, 82, 106294.	4.8	11
67	A computationally efficient robust voltage control for a single phase dual active bridge. <i>Energy Reports</i> , 2020, 6, 3346-3356.	5.1	11
68	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.	3.2	11
69	Effect of Copper Contamination on Plant Growth and Metal Contents in Rice Plant (<i>Oryza</i>) Tj ETQq1 1 0.784314 1.49 BT / Overlock 10 T	1.49	10
70	Theoretical Hydrokinetic Power Potential Assessment of the U-Tapao River Basin Using GIS. <i>Energies</i> , 2020, 13, 1749.	3.1	10
71	Forest Cover Change and Ecosystem Services: A Case Study of Community Forest in Mechinagar and Buddhshanti Landscape (MBL), Nepal. <i>Environmental Management</i> , 2021, 67, 963-973.	2.7	10
72	Efficient heat batteries for performance boosting in solar thermal cooking module. <i>Journal of Cleaner Production</i> , 2021, 324, 129223.	9.3	10

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73	A conceptual new model for use of solar water heaters in hot and dry regions. Sustainable Energy Technologies and Assessments, 2022, 49, 101710.	2.7	10
74	Variability of climate-induced rice yields in northwest Bangladesh using multiple statistical modeling. Theoretical and Applied Climatology, 2022, 147, 1263-1276.	2.8	10
75	A Grid-Connected Smart Extendable Structure for Hybrid Integration of Distributed Generations. IEEE Access, 2019, 7, 105235-105246.	4.2	9
76	A Systematic Review of Key Challenges in Hybrid HVAC/HVDC Grids. Energies, 2021, 14, 5451.	3.1	9
77	Ranking Potential Renewable Energy Systems to Power On-Farm Fertilizer Production. Sustainability, 2020, 12, 7850.	3.2	9
78	Techno-economic analysis and energy performance of a geothermal earth-to-air heat exchanger (EAHE) system in residential buildings: A case study. Energy Science and Engineering, 2021, 9, 1807-1825.	4.0	8
79	Wind Energy Analysis in the Coastal Region of Bangladesh. Energies, 2021, 14, 5628.	3.1	8
80	Spatial Pattern of Air Pollutant Concentrations and Their Relationship with Meteorological Parameters in Coastal Slum Settlements of Lagos, Southwestern Nigeria. Atmosphere, 2021, 12, 1426.	2.3	8
81	Assessing Farmers' Typologies of Perception for Adopting Sustainable Adaptation Strategies in Bangladesh. Climate, 2021, 9, 167.	2.8	8
82	DYNAMIC SIMULATION AND RANKING OF USING RESIDENTIAL-SCALE SOLAR WATER HEATER IN IRAN. Journal of Environmental Engineering and Landscape Management, 2022, 30, 30-42.	1.0	8
83	Development of an O-ring from NR/EPDM filled silica/CB hybrid filler for use in a solid oxide fuel cell testing system. Polymer Testing, 2020, 88, 106568.	4.8	7
84	Effect of Cd ²⁺ Molar Concentration in Cd _x Zn _(1-x) S Thin Film by Chemical Bath Deposition Technique Using Alternative Sulfur Precursor. ECS Journal of Solid State Science and Technology, 2021, 10, 025009.	1.8	7
85	Fuzzy Supervisory Passivity-Based High Order-Sliding Mode Control Approach for Tidal Turbine-Based Permanent Magnet Synchronous Generator Conversion System. Actuators, 2021, 10, 92.	2.3	7
86	Techno-Economic Investigation of Using Solar Energy for Heating Swimming Pools in Buildings and Producing Hydrogen: A Case Study. Frontiers in Energy Research, 2021, 9, .	2.3	7
87	Eco-Friendly Reduced Graphene Oxide Nanofilter Preparation and Application for Iron Removal. Separations, 2021, 8, 68.	2.4	7
88	Advancing Households' Sustainable Energy through Gender Attitudes towards Rooftop PV Installations: A Case of the Central Highlands, Vietnam. Sustainability, 2021, 13, 942.	3.2	7
89	Influence/Effect of Deep-Level Defect of Absorber Layer and n/i Interface on the Performance of Antimony Triselenide Solar Cells by Numerical Simulation. Sustainability, 2022, 14, 6780.	3.2	7
90	High resurgence of dengue vector populations after space spraying in an endemic urban area of Thailand: A cluster randomized controlled trial. Asian Pacific Journal of Tropical Biomedicine, 2015, 5, 965-970.	1.2	6

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91	Assessment of land use suitability for natural rubber using GIS in the U-tapao River basin, Thailand. Kasetsart Journal of Social Sciences, 2018, , .	0.1	6
92	Current stress and switching loss evaluation of a unified expandable power converter used for gridâ€™integration of renewable energy sources. IET Renewable Power Generation, 2021, 15, 2561-2570.	3.1	6
93	A strategic model to identify the factors and risks of solar cooker manufacturing and use: A case study of Razavi Khorasan, Iran. Energy Strategy Reviews, 2021, 33, 100587.	7.3	6
94	The Gambia's future electricity supply system: Optimizing power supply for sustainable development. Energy Strategy Reviews, 2018, 20, 179-194.	7.3	5
95	An analysis of the smallholder farmersâ€™ cassava <i>(Manihot esculenta Crantz)</i> value chain through a gender perspective: the case of Dak Lak province, Vietnam. Cogent Economics and Finance, 2019, 7, 1645632.	2.1	5
96	The intention of households in the Daklak province to instal smart grid rooftop solar electricity systems. Energy, Sustainability and Society, 2021, 11, .	3.8	5
97	Consumer buying behaviour and social responsibility in respect of organic foods: cross-cultural evidence. International Journal of Agricultural Resources, Governance and Ecology, 2019, 15, 145.	0.0	4
98	Energy-Based Combined Nonlinear Observer and Voltage Controller for a PMSC Using Fuzzy Supervisor High Order Sliding Mode in a Marine Current Power System. Sustainability, 2021, 13, 3737.	3.2	4
99	Nonlinear Control of Hydrostatic Thrust Bearing Using Multivariable Optimization. Mathematics, 2021, 9, 903.	2.2	4
100	Syngas Production from Rubberwood Biomass in Downdraft Gasifier Combined with Wet Scrubbing: Investigation of Tar and Solid Residue. Sains Malaysiana, 2020, 49, 1729-1743.	0.5	4
101	A Novel 10 kW Vertical Axis Wind Tree Design: Economic Feasibility Assessment. Sustainability, 2021, 13, 12720.	3.2	4
102	Contribution of Community-Managed Sal-Based Forest in Climate Change Adaptation and Mitigation: A Case from Nepal. Forests, 2022, 13, 262.	2.1	4
103	Effect of KOH concentration on the properties of ZnO nanoparticles. Materials Research Express, 2022, 9, 055004.	1.6	4
104	Assessment of Suitable Areas for Smart Grid of Power Generated from Renewable Energy Resources in Western Uganda. Energies, 2022, 15, 1595.	3.1	3
105	Role of a Mine in Changing Its Surroundingsâ€™ Land Use and Land Cover and Impact on the Natural Environment in Barapukuria, Bangladesh. Sustainability, 2021, 13, 13602.	3.2	3
106	Unified Fuzzy Logic Based Approach for Detection and Classification of PV Faults Using I-V Trend Line. Energies, 2022, 15, 5106.	3.1	3
107	A SPATIAL CLUSTERING APPROACH TO IDENTIFY RISK AREAS OF DENGUE INFECTION AFTER INSECTICIDE SPRAYING. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.4	2
108	A Novel Policy to Optimize Energy Consumption for Dairy Product Warehouses: A Case Study. Sustainability, 2021, 13, 2445.	3.2	2

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109	Relationship between Starting Torque and Thermal Behaviour for a Permanent Magnet Synchronous Generator (PMSG) Applied with Vertical Axis Wind Turbine (VAWT). Sustainability, 2021, 13, 9151.	3.2	2
110	Current Rating Analysis of a Nine-Switch based Unified Expandable Power Converter Considering Different Configurations. , 2020, , .		2
111	A novel multiport converter switching scheme to integrate multiple renewable energy sources. International Journal of Circuit Theory and Applications, 2022, 50, 1750-1769.	2.0	2
112	Comparative studies on the morphological, structural and optical properties of NiO thin films grown by vacuum and non-vacuum deposition techniques. Materials Research Express, 2021, 8, 126404.	1.6	2
113	Comparative Efficiency and Sensitivity Analysis of AC and DC Power Distribution Paradigms for Residential Localities. Sustainability, 2022, 14, 8220.	3.2	2
114	Using Vertical Green as Material for Complying Building Energy Code. Advanced Materials Research, 0, 622-623, 1035-1038.	0.3	1
115	Heat Pump Market in Thailand. Energy Procedia, 2012, 14, 9-13.	1.8	1
116	Energy conversion from wastewater sewage sludge. Asia-Pacific Journal of Chemical Engineering, 2020, 15, e2491.	1.5	1
117	Monitoring of Field Patrolling Efforts, Vietnam: Insights from a Forest Station in Pu Hu Nature Reserve. Sustainability, 2021, 13, 8407.	3.2	1
118	Spatial Assessment of Para Rubber (HeveaÂbrasiliensis) above Ground Biomass Potentials in Songkhla Province, Southern Thailand. Sustainability, 2021, 13, 9344.	3.2	1
119	Evaluating the Potential Reutilizing of Fly Ash and Bottom Ash in Thailand. Iranian Journal of Public Health, 2018, 47, 917-918.	0.5	1
120	Comparison of Efficiency-Based Optimal Load Distribution for Modular SSTs with Biologically Inspired Optimization Algorithms. Electronics (Switzerland), 2022, 11, 1988.	3.1	1
121	Excited Discrete Force for Piezo Generator Undergone Ultra-Low Vibrations on Air-Compressor and Possible Application. , 2019, , .		0
122	Indoor spray and windows screens effects on dengue vector density after space spraying in a field trial. Asian Pacific Journal of Tropical Medicine, 2020, 13, 24.	0.8	0