# CITATION REPORT List of articles citing

A review of energy storage technologies for wind power applications

DOI: 10.1016/j.rser.2012.01.029 Renewable and Sustainable Energy Reviews, 2012, 16, 2154-22

Source: https://exaly.com/paper-pdf/54577472/citation-report.pdf

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

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

#	Paper	IF	Citations
1157	. 2011,		
1156	Distensible air accumulators as a means of adiabatic underwater compressed air energy storage. <b>2012</b> , 69, 566-577		26
1155	Modeling and validation of a flywheel energy storage lab-setup. <b>2012</b> ,		8
1154	Power oscillation damping supported by wind power: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2012</b> , 16, 4994-5006	16.2	104
1153	A high power density single flow zinclickel battery with three-dimensional porous negative electrode. <b>2013</b> , 241, 196-202		63
1152	A comparative overview of large-scale battery systems for electricity storage. <i>Renewable and Sustainable Energy Reviews</i> , <b>2013</b> , 27, 778-788	16.2	327
1151	Transporting the terajoules: Efficient energy distribution in a post-carbon world. <b>2013</b> , 62, 51-61		2
1150	Flexible and Conducting Metal-Fabric Composites Using the Flame Spray Process for the Production of Li-lon Batteries. <b>2013</b> , 22, 699-709		3
1149	Developing pathways for energy storage in the UK using a coevolutionary framework. <b>2013</b> , 63, 230-24	3	51
1148	. 2013,		25
1147	A comparative probabilistic economic analysis of selected stationary battery systems for grid applications. <b>2013</b> ,		9
1146	Dynamic modeling of compressed gas energy storage to complement renewable wind power intermittency. <b>2013</b> , 38, 7867-7880		35
1145	Flexible asymmetric supercapacitors based on ultrathin two-dimensional nanosheets with outstanding electrochemical performance and aesthetic property. <b>2013</b> , 3, 2598		127
1144	Electrochemical synthesis of ammonia directly from air and water using a Li+/H+/NH4+ mixed conducting electrolyte. <b>2013</b> , 3, 18016		86
1143	Technologies for smart grids: A brief review. <b>2013</b> ,		36
1142	A review of output power smoothing methods for wind energy conversion systems. <i>Renewable and Sustainable Energy Reviews</i> , <b>2013</b> , 26, 135-146	16.2	97
1141	Hybrid energy storage system with unique power electronic interface for microgrids. 2013,		3

1140	A comparative analysis of the cumulative energy demand of stationary grid-integrated battery systems. <b>2013</b> ,		3
1139	Renewable energy-powered membrane technology: Supercapacitors for buffering resource fluctuations in a wind-powered membrane system for brackish water desalination. <b>2013</b> , 50, 126-135		34
1138	Economic impact of performances degradation on the competitiveness of energy storage technologies IPart 1: Introduction to the simulation-optimization platform ODYSSEY and elements of validation on a PV-hydrogen hybrid system. <b>2013</b> , 38, 15219-15232		12
1137	Assessment of energy and economic benefits arising from syngas storage in IGCC power plants. <b>2013</b> , 58, 635-643		11
1136	A voltage controller for wind turbine generator. 2013,		O
1135	Thermal Electricity Storage by a Thermodynamic Process: Study of Temperature Impact on the Machines. <b>2013</b> , 36, 923-938		7
1134	Energy storage requirements for in-stream tidal generation on a limited capacity electricity grid. <b>2013</b> , 61, 283-290		17
1133	Experimental evaluation of a real time energy management system for stand-alone microgrids in day-ahead markets. <b>2013</b> , 106, 365-376		135
1132	Advanced charged membranes with highly symmetric spongy structures for vanadium flow battery application. <b>2013</b> , 6, 776		110
1131	Operational simulation of wind power plants for electrolytic hydrogen production connected to a distributed electricity generation grid. <b>2013</b> , 53, 249-257		12
1130	Review of storage schemes for wind energy systems. <i>Renewable and Sustainable Energy Reviews</i> , <b>2013</b> , 21, 237-247	16.2	88
1129	Progress and recent trends of wind energy technology. <i>Renewable and Sustainable Energy Reviews</i> , <b>2013</b> , 21, 456-468	16.2	216
1128	Control of a Supercapacitor Energy Storage System for Microgrid Applications. <b>2013</b> , 28, 690-697		108
1127	Energy management of flywheel-based energy storage device for wind power smoothing. <b>2013</b> , 110, 207-219		100
1126	A review of energy storage technologies for marine current energy systems. <i>Renewable and Sustainable Energy Reviews</i> , <b>2013</b> , 18, 390-400	16.2	189
1125	Emergence of energy storage technologies as the solution for reliable operation of smart power systems: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2013</b> , 25, 135-165	16.2	238
1124	Optimal production of renewable hydrogen based on an efficient energy management strategy. <b>2013</b> , 55, 58-67		51
1123	AC-microgrids versus DC-microgrids with distributed energy resources: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2013</b> , 24, 387-405	16.2	655

Impacts of compressed air energy storage plant on an electricity market with a larg energy portfolio. <b>2013</b> , 57, 85-94	e renewable 72
Optimal economic dispatch for renewable energy microgrids with hybrid storage us Predictive Control. <b>2013</b> ,	sing Model 18
1120 Status of energy storage options for electricity from nuclear power plants. <b>2013</b> ,	1
New Methodology for the Optimization of the Management of Wind Farms, Includi Storage. <b>2013</b> , 330, 183-187	ng Energy 3
Assessment of impact of charging infrastructure for electric vehicles on distribution <b>2013</b> ,	n networks.
Modeling, Control and Experimental Validation of a Flywheel-Based Energy Storage 23, 41-51	e Device. <b>2013</b> ,
Concept and Application of Distributed Compressed Air Energy Storage Systems In Utility Networks. <b>2013</b> ,	tegrated in 2
Hydrogen Storage for Wind Parks: A Real Options Evaluation for an Optimal Investr Flexibility. <b>2013</b> ,	ment in More 36
1114 Dynamic Energy Storage Management for Dependable Renewable Electricity Gene	ration. <b>2013</b> , 2
Operation of a wind turbine-flywheel energy storage system under conditions of st of wind energy. <b>2014</b> , 2014, 643769	ochastic change
1112 Study on modeling and application of ultracapacitor. <b>2014</b> ,	1
1111 Energy Storage and Materials. <b>2014</b> , 323-386	
Assessment of the Global Potential for Renewable Energy Storage Systems on Sma 46, 325-331	ll Islands. <b>2014</b> ,
1109 Improved Control Strategy for Microgrid Ultracapacitor Energy Storage Systems. <b>2</b> 0	<b>014</b> , 7, 8095-8115 <sub>7</sub>
1108 A Simulation Framework for Optimal Energy Storage Sizing. <b>2014</b> , 7, 3033-3055	21
Comparison of Gas Turbines and Power-to-Gas Plants for Improved Wind Park Ener Dispatchability. <b>2014</b> ,	gy 3
Optimal Design and Management of a Hybrid Photovoltaic-Pump Hydro Energy Sto <b>2014</b> ,	rage System. 4
1105 A power grid enterprise control method for energy storage system integration. <b>20</b> °	<b>14</b> , 5

1104	Overview of Current Development in Compressed Air Energy Storage Technology. <b>2014</b> , 62, 603-611	87
1103	Battery energy storage applications in wind integrated systems 🖪 review. <b>2014</b> ,	7
1102	Optimization of power flow with energy storage using genetic algorithms. <b>2014</b> ,	
1101	A review of high temperature superconductors for offshore wind power synchronous generators.  Renewable and Sustainable Energy Reviews, <b>2014</b> , 38, 404-414	, 52
1100	Contribution to the Fault Diagnosis of a Doubly Fed Induction Generator for a Closed-loop Controlled Wind Turbine System Associated with a Two-level Energy Storage System. <b>2014</b> , 42, 1727-1742	10
1099	Assessment of the impact of a battery energy storage system on the scheduling and operation of the insular power system of Crete. <b>2014</b> ,	1
1098	Design and experimental investigations of a smart battery energy storage system for frequency control in microgrids. <b>2014</b> , 6, 023130	7
1097	Collaborate, involve, or defend? A critical stakeholder assessment and strategy for the Danish hydrogen electrolysis industry. <b>2014</b> , 39, 20879-20887	11
1096	Storage and demand-side options for integrating wind power. <b>2014</b> , 3, 93-109	26
1095	Enhanced-Pumped-Storage: Combining pumped-storage in a yearly storage cycle with dams in cascade in Brazil. <b>2014</b> , 78, 513-523	43
1094	Optimal Energy Storage Sizing for Wind Power Applications. <b>2014</b> , 705, 278-283	0
1093	Economic dispatch of microgrid considering optimal management of lithium batteries. 2014,	3
1092	Optimisation of Storage for Concentrated Solar Power Plants. <b>2014</b> , 5, 473-503	6
1091	An Explosive Growth of Wind Power in China. <b>2014</b> , 11, 849-860	11
1090	Pumped storage system for wind energy in variable operating conditions. <b>2014</b> ,	2
1089	Handling renewable energy variability and uncertainty in power systems operation. <b>2014</b> , 3, 156-178	51
1088	A multi-stack simulation of shunt currents in vanadium redox flow batteries. <b>2014</b> , 261, 64-74	43
1087	Design and thermodynamic analysis of a hybrid energy storage system based on A-CAES (adiabatic compressed air energy storage) and FESS (flywheel energy storage system) for wind power application. <b>2014</b> , 70, 674-684	99

1086	From wave to jet and from jet to hydrogen: A promising hybrid system. <b>2014</b> , 39, 16628-16636	2
1085	Wind energy and natural gas-based energy storage to promote energy security and lower emissions in island regions. <b>2014</b> , 115, 203-219	27
1084	Control of a Flywheel Energy Storage System for Power Smoothing in Wind Power Plants. <b>2014</b> , 29, 204-214	86
1083	Bulk electricity storage technologies for load-leveling operation [An economic assessment for the Austrian and German power market. <b>2014</b> , 59, 111-122	42
1082	The impact of storage facility capacity and ramping capabilities on the supply side economic dispatch of the energyWater nexus. <b>2014</b> , 66, 363-377	33
1081	Various battery models for various simulation studies and applications. <i>Renewable and Sustainable Energy Reviews</i> , <b>2014</b> , 32, 477-485	128
1080	Flicker mitigation by reactive power control in wind farm with doubly fed induction generators. <b>2014</b> , 55, 285-296	23
1079	Electro-thermal modelling of a supercapacitor and experimental validation. <b>2014</b> , 259, 154-165	38
1078	Feasibility study and economic analysis of pumped hydro storage and battery storage for a renewable energy powered island. <b>2014</b> , 79, 387-397	192
1077	Optimal sizing and control strategy of isolated grid with wind power and energy storage system. <b>2014</b> , 80, 407-415	90
1076	The key technologies and development of offshore wind farm in China. <i>Renewable and Sustainable Energy Reviews</i> , <b>2014</b> , 34, 453-462	25
1075	Control Scheme for a Stand-Alone Wind Energy Conversion System. <b>2014</b> , 29, 418-425	45
1074	Control Strategies for Wind-Farm-Based Smart Grid System. <b>2014</b> , 50, 3591-3601	21
1073	Improving grid integration of wind turbines by using secondary batteries. <i>Renewable and Sustainable Energy Reviews</i> , <b>2014</b> , 34, 194-207	28
1072	Participation of wind power plants in system frequency control: Review of grid code requirements and control methods. <i>Renewable and Sustainable Energy Reviews</i> , <b>2014</b> , 34, 551-564	205
1071	Energy storage systems for renewable energy power sector integration and mitigation of intermittency. <i>Renewable and Sustainable Energy Reviews</i> , <b>2014</b> , 35, 499-514	291
1070	Impacts of Energy Storage on Short Term Operation Planning Under Centralized Spot Markets. <b>2014</b> , 5, 1110-1118	38
1069	. <b>2014</b> , 5, 1439-1450	252

1068	Review of concepts for a demand-driven biogas supply for flexible power generation. <i>Renewable and Sustainable Energy Reviews</i> , <b>2014</b> , 29, 383-393	148
1067	Energy storage: Applications and challenges. <b>2014</b> , 120, 59-80	519
1066	Optimization methods applied for WindPSP operation and scheduling under deregulated market: A review. Renewable and Sustainable Energy Reviews, 2014, 30, 682-700	23
1065	Multi-objective optimized management of electrical energy storage systems in an islanded network with renewable energy sources under different design scenarios. <b>2014</b> , 64, 648-662	91
1064	. 2014,	24
1063	Analysis of the damping contribution of power system stabilizers driving wind power plants. <b>2014</b> , 17, 267-278	9
1062	A novel solvent-template method to manufacture nano-scale porous membranes for vanadium flow battery applications. <b>2014</b> , 2, 9524	41
1061	Electrical Energy Storage Systems: Technologies' State-of-the-Art, Techno-economic Benefits and Applications Analysis. <b>2014</b> ,	34
1060	Parameters affecting scalable underwater compressed air energy storage. <b>2014</b> , 134, 239-247	48
1059	Review of energy storage technologies for sustainable power networks. <b>2014</b> , 8, 74-91	347
1058	Energy storage systems supporting increased penetration of renewables in islanded systems. <b>2014</b> , 75, 265-280	139
1057	Modeling, analysis and comparison of TSR and OTC methods for MPPT and power smoothing in permanent magnet synchronous generator-based wind turbines. <b>2014</b> , 86, 892-900	118
1056	Multi-objective stochastic optimal planning method for stand-alone microgrid system. <b>2014</b> , 8, 1263-1273	91
1055	Benefits of coal-fired power generation with flexible CCS in a future northwest European power system with large scale wind power. <b>2014</b> , 28, 216-233	51
1054	Modeling an alkaline electrolysis cell through reduced-order and loss-estimate approaches. <b>2014</b> , 269, 203-211	38
1053	LIQHYSMES Liquid H2 and SMES for renewable energy applications. <b>2014</b> , 39, 12007-12017	6
1052	Transport of Vanadium and Oxovanadium Ions Across Zeolite Membranes: A Molecular Dynamics Study. <b>2014</b> , 118, 23803-23810	22
1051	Zinc-nickel single flow batteries with improved cycling stability by eliminating zinc accumulation on the negative electrode. <b>2014</b> , 145, 109-115	27

1050	Measurement of local current density of all-vanadium redox flow batteries. 2014, 271, 245-251	31
1049	Energy Storage Potential for Solar Based Hybridization of Off-grid Diesel Power Plants in Tanzania. <b>2014</b> , 46, 287-293	17
1048	A PSO (particle swarm optimization)-based model for the optimal management of a small PV(Photovoltaic)-pump hydro energy storage in a rural dry area. <b>2014</b> , 76, 168-174	102
1047	All-solid-state flexible thin-film supercapacitors with high electrochemical performance based on a two-dimensional V2O5IH2O/graphene composite. <b>2014</b> , 2, 10876	63
1046	Contribution of type-2 wind turbines to sub-synchronous resonance damping. <b>2014</b> , 55, 714-722	10
1045	The Multiple Role of Energy Storage in the Industrial Sector: Evidence from a Greek Industrial Facility. <b>2014</b> , 46, 178-185	25
1044	Assessment of the Global Potential for Renewable Energy Storage Systems on Small Islands. <b>2014</b> , 46, 294-300	32
1043	Prospects of applying ionic liquids and deep eutectic solvents for renewable energy storage by means of redox flow batteries. <i>Renewable and Sustainable Energy Reviews</i> , <b>2014</b> , 30, 254-270	156
1042	A wind-hydrogen energy storage system model for massive wind energy curtailment. <b>2014</b> , 39, 1243-1252	47
1041	Optimal operation and forecasting policy for pump storage plants in day-ahead markets. <b>2014</b> , 113, 1089-109	931
1040	InputButput signal selection for damping of power system oscillations using wind power plants. <b>2014</b> , 58, 75-84	30
1039	A risk-based simulation and multi-objective optimization framework for the integration of distributed renewable generation and storage. <i>Renewable and Sustainable Energy Reviews</i> , <b>2014</b> , 16.2 37, 778-793	54
1038	The role of hydrogen and fuel cells to store renewable energy in the future energy network [] potentials and challenges. <b>2014</b> , 73, 103-109	87
1037	Hydrogen storage for wind parks: A real options evaluation for an optimal investment in more flexibility. <b>2014</b> , 136, 931-946	62
1036	Demonstration of HVAC chiller control for power grid frequency regulation Part 2: Discussion of results and considerations for broader deployment. <b>2015</b> , 21, 1143-1153	19
1035	Efficiency improvement of pumped storage system for MW scale off-grid PV plants. 2015,	O
1034	Battery storage and hybrid battery supercapacitor storage systems: A comparative critical review. <b>2015</b> ,	10
1033	Review on the Distributed Energy Storage Technology in the Application of the Micro Network. <b>2015</b> , 22, 02019	

## (2015-2015)

1032	Operation of rural distribution grids with intermittent generation in connected and island mode using the open source EMS solver SCIP. <b>2015</b> ,	3
1031	Disc-type PM machine for the electromagnetic conversion/suspension of a flywheel system. <b>2015</b> ,	2
1030	Barriers to the Development of Energy Storage Systems. <b>2015</b> , 1-13	
1029	Experience of availability of sodium-nickel based energy storage. 2015,	1
1028	Study on Power Coordinated Control Strategy of DC Parallel Wind Farm with Energy Storage System. <b>2015</b> ,	
1027	A classification control strategy for energy storage system in microgrid. <b>2015</b> , 10, 396-403	19
1026	Reliability assessment of a standalone wind-conventional/energy storage system using probabilistic production simulation method. <b>2015</b> , 23, 1996-2016	2
1025	A Study on Maximum Wind Power Penetration Limit in Island Power System Considering High-Voltage Direct Current Interconnections. <b>2015</b> , 8, 14244-14259	20
1024	Redox Species of Redox Flow Batteries: A Review. <b>2015</b> , 20, 20499-517	114
1023	Multifunctional Carbon Nanostructures for Advanced Energy Storage Applications. <b>2015</b> , 5, 755-777	60
1022	Optimized Sizing, Selection, and Economic Analysis of Battery Energy Storage for Grid-Connected Wind-PV Hybrid System. <b>2015</b> , 2015, 1-16	23
1021	Investigation of the Promotion of Wind Power Consumption Using the Thermal-Electric Decoupling Techniques. <b>2015</b> , 8, 8613-8629	21
1020	Design and advanced control strategies of a hybrid energy storage system for the grid integration of wind power generations. <b>2015</b> , 9, 89-98	70
1019	DFIG-based offshore wind power plant connected to a single VSC-HVDC operated at variable frequency: Energy yield assessment. <b>2015</b> , 86, 311-322	11
1018	Residual learning rates in lead-acid batteries: Effects on emerging technologies. <b>2015</b> , 85, 71-79	32
1017	Numerical and experimental studies of stack shunt current for vanadium redox flow battery. <b>2015</b> , 151, 237-248	49
1016	Experimental study of heat transfer enhancement in a liquid piston compressor/expander using porous media inserts. <b>2015</b> , 154, 40-50	60
1015	Analysis of battery lifetime extension in a SMES-battery hybrid energy storage system using a novel battery lifetime model. <b>2015</b> , 86, 175-185	111

1014	Renewable micro-generation of heat and electricity Review on common and missing socio-technical configurations. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 49, 857-870	16.2	34
1013	Polymer nanocomposites for energy storage, energy saving, and anticorrosion. <b>2015</b> , 3, 14929-14941		165
1012	Low Voltage Ride Through in DFIG based wind turbines: A review. <b>2015</b> ,		О
1011	. 2015,		15
1010	Simulation of thermal properties of the liquid metal batteries. 2015,		1
1009	An optimal hybrid supercapacitor and battery energy storage system in wind power application. <b>2015</b> ,		2
1008	Value propositions of energy storage options for wind power output smoothing. 2015,		О
1007	An overview of large-scale stationary electricity storage plants in Europe: Current status and new developments. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 52, 1212-1227	16.2	51
1006	An energy storage assessment: Using optimal control strategies to capture multiple services. <b>2015</b> ,		45
1005	Economic analysis of battery electric storage systems operating in electricity markets. 2015,		1
1004	A novel power control strategy for wind-driven permanent magnet synchronous generator based on a single leg multi-mode power converter. <b>2015</b> ,		О
1003	A survey on energy storage technologies in power systems. <b>2015</b> ,		16
1002	Induction motors most efficient operation points in pumped storage systems. 2015,		
1001	Energy storage systems: A review of the technology and its application in power systems. 2015,		13
1000	Benefits and Challenges of Mechanical Spring Systems for Energy Storage Applications. <b>2015</b> , 82, 805-8	810	18
999	An adaptive control algorithm for wind power dispatch using a battery energy storage system. <b>2015</b> ,		1
998	Design and Simulation Analysis of a Small-Scale Compressed Air Energy Storage System Directly Driven by Vertical Axis Wind Turbine for Isolated Areas. <b>2015</b> , 141, 04014032		3
997	Effective management of green Cloud data centers using energy storage technologies. 2015,		2

#### (2015-2015)

996	Optimization in microgrids with hybrid energy systems IA review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 45, 431-446	370
995	Electrolyzer models for hydrogen production from wind energy systems. <b>2015</b> , 40, 2927-2938	73
994	Effects of large-scale power to gas conversion on the power, gas and carbon sectors and their interactions. <b>2015</b> , 94, 28-39	129
993	Batteries for remote area power (RAP) supply systems. <b>2015</b> , 563-586	O
992	Energy storage for PV power plant dispatching. <b>2015</b> , 80, 61-72	43
991	Trends and challenges in the operation of pumped-storage hydropower plants. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 44, 767-784	144
990	Power-to-What? Œnvironmental assessment of energy storage systems. 2015, 8, 389-400	294
989	Coordinated operation of wind turbines and flywheel storage for primary frequency control support. <b>2015</b> , 68, 313-326	33
988	Recent Advances in Metal Oxide-Based Photoelectrochemical Hydrogen Production. 2015, 343-370	
987	A techno-economic assessment of offshore wind coupled to offshore compressed air energy storage. <b>2015</b> , 155, 315-322	31
986	A novel MPPT method for enhancing energy conversion efficiency taking power smoothing into account. <b>2015</b> , 101, 738-748	41
985	Statistical analysis of wind characteristics and wind energy potential in Hong Kong. <b>2015</b> , 101, 644-657	108
984	The modeling and numerical simulations of wind turbine generation system with free vortex method and simulink. <b>2015</b> , 103, 762-777	14
983	Study on Improving Consumption Capability of Wind Power by Installing Thermal Storage in Ningxia Province. <b>2015</b> , 740, 450-455	
982	A preliminary dynamic behaviors analysis of a hybrid energy storage system based on adiabatic compressed air energy storage and flywheel energy storage system for wind power application. <b>2015</b> , 84, 825-839	43
981	Experimental results of the hydrogen production control of a hydrogen energy buffer. <b>2015</b> , 40, 5013-5024	8
980	Effects of acid concentration, temperature, and time on recycling of post-vehicle-application lithium-ion batteries of varying chemistries. <b>2015</b> , 4, 1	2
979	Pre-investigation of water electrolysis for flexible energy storage at large scales: The case of the Spanish power system. <b>2015</b> , 40, 5544-5551	23

978	Design and engineering implementation of non-supplementary fired compressed air energy storage system: TICC-500. <b>2015</b> , 58, 600-611	54
977	Techno-economic optimization of a supercapacitor-based energy storage unit chain: Application on the first quick charge plug-in ferry. <b>2015</b> , 153, 3-14	24
976	Reliability evaluation of a standalone wind-photovoltaic/battery energy system based on realistic model of battery. <b>2015</b> , 7, 013107	10
975	Emerging energy storage solutions for transportation [A review: An insight into road, rail, sea and air transportation applications. <b>2015</b> ,	7
974	Power-to-gas plants and gas turbines for improved wind energy dispatchability: Energy and economic assessment. <b>2015</b> , 147, 117-130	210
973	A review of low-voltage ride-through enhancement methods for permanent magnet synchronous generator based wind turbines. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 47, 399-415	120
972	Carbon Nanotubes for Dye-Sensitized Solar Cells. <b>2015</b> , 11, 2963-89	103
971	Optimal Economical Schedule of Hydrogen-Based Microgrids With Hybrid Storage Using Model Predictive Control. <b>2015</b> , 62, 5195-5207	167
970	Rechargeable lithium batteries for energy storage in smart grids. <b>2015</b> , 319-351	8
969	. <b>2015</b> , 3, 1392-1407	7
968	A mixed integer SDP approach for the optimal placement of energy storage devices in power grids with renewable penetration. <b>2015</b> ,	7
967	Notice of Removal: A comprehensive review on modeling, control, protection and future prospects of Microgrid. <b>2015</b> ,	4
966	Operational management of renewable energy systems with storage using an optimisation-based simulation methodology. <b>2015</b> , 9, 263-278	4
965	A new principle for underground pumped hydroelectric storage. <b>2015</b> , 2, 54-63	17
964	Assessment of the potential of Battery Energy Storage Systems in current European markets designs. <b>2015</b> ,	4
963	Operational flexibility provided by storage in generation expansion planning with high shares of renewables. <b>2015</b> ,	4
962	An improved charging/discharging strategy of lithium batteries considering depreciation cost in day-ahead microgrid scheduling. <b>2015</b> , 105, 675-684	51
961	Optimizing renewable energy, demand response and energy storage to replace conventional fuels in Ontario, Canada. <b>2015</b> , 93, 1447-1455	27

## (2016-2015)

960	Frequency stabilisation of a hybrid two-area power system by a novel quasi-oppositional harmony search algorithm. <b>2015</b> , 9, 2167-2179	17
959	Strategies for correlating solar PV array production with electricity demand. <b>2015</b> , 76, 432-440	38
958	A Power Smoothing System Based on Supercapacitors for Renewable Distributed Generation. <b>2015</b> , 62, 343-350	69
957	Electrical energy storage systems: A comparative life cycle cost analysis. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 42, 569-596	927
956	Capacity allocation of a hybrid energy storage system for power system peak shaving at high wind power penetration level. <b>2015</b> , 75, 541-549	68
955	The Ragone plots guided sizing of hybrid storage system for taming the wind power. <b>2015</b> , 65, 246-253	18
954	Feasibility study of a hybrid wind turbine system Integration with compressed air energy storage. <b>2015</b> , 137, 617-628	71
953	Experimental demonstration and application planning of high temperature superconducting energy storage system for renewable power grids. <b>2015</b> , 137, 692-698	37
952	Methodology for the economic optimisation of energy storage systems for frequency support in wind power plants. <b>2015</b> , 137, 660-669	68
951	Pumped storage-based standalone photovoltaic power generation system: Modeling and techno-economic optimization. <b>2015</b> , 137, 649-659	223
950	Overview of current development in electrical energy storage technologies and the application potential in power system operation. <b>2015</b> , 137, 511-536	1921
949	. 2016,	30
948	Introduction. <b>2016</b> , 1-14	2
947	Renewable-load matching dispatch for isolated power systems with intermittent renewable sources. <b>2016</b> , 11, 270	
946	Growing and Etching MoSlon Carbon Nanotube Film for Enhanced Electrochemical Performance. <b>2016</b> , 21,	6
945	Market Suitability and Performance Tradeoffs Offered by Commercial Wind Turbines across Differing Wind Regimes. <b>2016</b> , 9, 352	6
944	A High-Efficiency Voltage Equalization Scheme for Supercapacitor Energy Storage System in Renewable Generation Applications. <b>2016</b> , 8, 548	13
943	Intelligent Control of a Distributed Energy Generation System Based on Renewable Sources. <b>2016</b> , 8, 748	3

942 References. **2016**, 267-284

941	V2G Services for Renewable Integration. <b>2016</b> ,	4
940	Distributed generation integrated with thermal unit commitment considering demand response for energy storage optimization of smart grid. <b>2016</b> , 99, 107-117	28
939	Frequency control during transients in offshore wind parks using battery energy storage systems. <b>2016</b> , 15, 57-68	3
938	A Review of Power Electronics for Grid Connection of Utility-Scale Battery Energy Storage Systems. <b>2016</b> , 7, 1778-1790	155
937	A review on wind energy conversion system and enabling technology. <b>2016</b> ,	7
936	Economic analysis on the integration of oil-based parabolic trough solar collector and the steam turbine regenerative system. <b>2016</b> ,	
935	Simultaneous operation of near-to-sea and off-shore wind farms with ocean renewable energy storage. <b>2016</b> ,	9
934	Battery Energy Storage System in smoothing control application of photovoltaic power fluctuations caused by clouds passing. <b>2016</b> ,	0
933	Battery energy storage systems for the electricity grid: UK research facilities. 2016,	25
932	Low voltage ride-through enhancement in DFIG-based wind turbine. 2016,	0
931	Valuation of stored energy in dynamic optimal power flow of distribution systems with energy storage. <b>2016</b> ,	2
930	Analysis of internal reaction and mass transfer of zinc-nickel single flow battery. <b>2016</b> , 8, 064102	8
929	Determining wind farm locations, allocation of wind farm capacity, and sizing of energy storage for 17 GW new wind power capacity in Korea. <b>2016</b> ,	
928	Modeling operation of electric vehicles aggregator with energy storage system in reserve services market. <b>2016</b> , 8, 015702	3
927	Improving the efficiency of Micro-Grids dedicated pumped storage systems. 2016,	O
926	A method for optimal sizing hybrid energy storage system for smoothing Fluctuations of Wind Power. <b>2016</b> ,	6
925	Renewable Energy Storage System Based on a Power-to-Gas Conversion Process. <b>2016</b> , 101, 854-861	22

## (2016-2016)

924	Unit commitment problem solution in the presence of solar and wind power integration by an improved priority list method. <b>2016</b> ,		О
923	A comparative research of two adiabatic compressed air energy storage systems. <b>2016</b> , 108, 566-578		87
922	Optimal Load Sharing of Hydrogen-Based Microgrids With Hybrid Storage Using Model-Predictive Control. <b>2016</b> , 63, 4919-4928		66
921	A geospatial assessment of the techno-economic wind power potential in India using geographical restrictions. <b>2016</b> , 97, 77-88		29
920	A review on compressed air energy storage 🖪 pathway for smart grid and polygeneration. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 62, 895-907	16.2	183
919	Wind Energy. <b>2016</b> , 159-180		
918	A techno-economic assessment of large scale wind-hydrogen production with energy storage in Western Canada. <b>2016</b> , 41, 8755-8776		61
917	Optimal operating strategy and revenue estimates for the arbitrage of a vanadium redox flow battery considering dynamic efficiencies and capacity loss. <b>2016</b> , 10, 1278-1285		23
916	Harvest and utilization of chemical energy in wastes by microbial fuel cells. 2016, 45, 2847-70		148
915	On the economics of stand-alone renewable hybrid power plants in remote regions. <b>2016</b> , 118, 63-74		26
914	Reliable integration of a concentrating solar power plant in a small isolated system through an appropriately sized battery energy storage system. <b>2016</b> , 10, 735-742		6
913	Catalysis mechanisms of CO2 and CO methanation. <b>2016</b> , 6, 4048-4058		218
912	Improving power grid performance using parallel connected Compressed Air Energy Storage and wind turbine system. <b>2016</b> , 96, 498-508		22
911	Cell SoC Balancing Using a Cascaded Full-Bridge Multilevel Converter in Battery Energy Storage Systems. <b>2016</b> , 63, 5394-5402		47
910	A system-of-systems framework for the reliability analysis of distributed generation systems accounting for the impact of degraded communication networks. <b>2016</b> , 183, 805-822		15
909	Adaptive controller design based on input-output signal selection for voltage source converter high voltage direct current systems to improve power system stability. <b>2016</b> , 23, 2254-2267		3
908	Mapping key economic indicators of onshore wind energy in Sweden by using a geospatial methodology. <b>2016</b> , 128, 211-226		9
907	Dimensioning methodology for energy storage devices and wave energy converters supplying isolated loads. <b>2016</b> , 10, 1468-1476		10

906	Highly Stable Three Lithium Insertion in Thin V2O5 Shells on Vertically Aligned Carbon Nanofiber Arrays for Ultrahigh-Capacity Lithium Ion Battery Cathodes. <b>2016</b> , 3, 1600824		22
905	Thermodynamic analysis of a compressed carbon dioxide energy storage system using two saline aquifers at different depths as storage reservoirs. <b>2016</b> , 127, 149-159		67
904	The formate bio-economy. <b>2016</b> , 35, 1-9		129
903	Maximising the value of electricity storage. <b>2016</b> , 8, 212-225		81
902	Highly Active and Stable Graphene Tubes Decorated with FeCoNi Alloy Nanoparticles via a Template-Free Graphitization for Bifunctional Oxygen Reduction and Evolution. <b>2016</b> , 6, 1601198		183
901	Simulation of Energy Management System for Local Energy Market in microgrids. 2016,		3
900	A three-phase full soft-switching current-fed naturally clamped DC-DC converter for high-power energy storage applications. <b>2016</b> ,		
899	Thermal analysis of near-isothermal compressed gas energy storage system. <b>2016</b> , 179, 948-960		67
898	Energy storage systems and power system stability. <b>2016</b> ,		3
897	Energy storage in the energy transition context: A technology review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 65, 800-822	16.2	295
897 896		16.2	295
	Energy Reviews, <b>2016</b> , 65, 800-822  An MILP model for cost-optimal planning of an on-grid hybrid power system for an eco-industrial	16.2	
896	An MILP model for cost-optimal planning of an on-grid hybrid power system for an eco-industrial park. <b>2016</b> , 116, 1423-1441	16.2	39
896 895	Energy Reviews, 2016, 65, 800-822  An MILP model for cost-optimal planning of an on-grid hybrid power system for an eco-industrial park. 2016, 116, 1423-1441  Trends in Short-Term Renewable and Load Forecasting for Applications in Smart Grid. 2016, 292-300  Operational limits of four wires three levels NPC topology for power quality improvement in weak	16.2	39
896 895 894	An MILP model for cost-optimal planning of an on-grid hybrid power system for an eco-industrial park. 2016, 116, 1423-1441  Trends in Short-Term Renewable and Load Forecasting for Applications in Smart Grid. 2016, 292-300  Operational limits of four wires three levels NPC topology for power quality improvement in weak grids. 2016,  Integration of heat pumps into thermal plants for creation of large-scale electricity storage	16.2	39
896 895 894 893	An MILP model for cost-optimal planning of an on-grid hybrid power system for an eco-industrial park. 2016, 116, 1423-1441  Trends in Short-Term Renewable and Load Forecasting for Applications in Smart Grid. 2016, 292-300  Operational limits of four wires three levels NPC topology for power quality improvement in weak grids. 2016,  Integration of heat pumps into thermal plants for creation of large-scale electricity storage capacities. 2016, 184, 506-522	16.2	39 2 1 20
896 895 894 893	An MILP model for cost-optimal planning of an on-grid hybrid power system for an eco-industrial park. 2016, 116, 1423-1441  Trends in Short-Term Renewable and Load Forecasting for Applications in Smart Grid. 2016, 292-300  Operational limits of four wires three levels NPC topology for power quality improvement in weak grids. 2016,  Integration of heat pumps into thermal plants for creation of large-scale electricity storage capacities. 2016, 184, 506-522  Influence of noise of wind speed data on a wind-hydrogen system. 2016, 41, 22751-22759  Fault Analysis in a Grid Integrated DFIG Based Wind Energy System with NA CB_P Circuit for	16.2	39 2 1 20 4

888	Review and prospect of compressed air energy storage system. <b>2016</b> , 4, 529-541	68
887	A new droop characteristic for energy storage system dispatch commands generation. <b>2016</b> ,	
886	EU scenarios of renewable coal hydro-gasification for SNG production. <b>2016</b> , 16, 43-52	7
885	Finite Bias Calculations to Model Interface Dipoles in Electrochemical Cells at the Atomic Scale. <b>2016</b> , 120, 13485-13491	29
884	Reliability of Electricity Supply Regarding the Integration of Intermittent Sources in Brazil's Power Mix. <b>2016</b> , 14, 1302-1307	2
883	High-performance porous uncharged membranes for vanadium flow battery applications created by tuning cohesive and swelling forces. <b>2016</b> , 9, 2319-2325	84
882	Review of advanced grid requirements for the integration of large scale photovoltaic power plants in the transmission system. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 62, 971-987	99
881	A review of renewable energy utilization in islands. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 59, 504-513	238
880	Operation, sizing, and economic evaluation of storage for solar and wind power plants. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 59, 1117-1129	65
879	Control and Bidding Strategy for Virtual Power Plants With Renewable Generation and Inelastic Demand in Electricity Markets. <b>2016</b> , 7, 562-575	60
878	Energy management system for stand-alone diesel-wind-biomass microgrid with energy storage system. <b>2016</b> , 97, 90-104	80
877	Empowering the electric grid: Can SMES coupled to wind turbines improve grid stability?. <b>2016</b> , 89, 224-230	6
876	Mesoporous Hybrids of Reduced Graphene Oxide and Vanadium Pentoxide for Enhanced Performance in Lithium-Ion Batteries and Electrochemical Capacitors. <b>2016</b> , 8, 9200-10	56
875	Smart home energy management systems: Concept, configurations, and scheduling strategies.  Renewable and Sustainable Energy Reviews, <b>2016</b> , 61, 30-40	402
874	Energy storage systems in modern gridsMatrix of technologies and applications. <b>2016</b> , 6, 248-259	174
873	High-Energy Density Redox Flow Lithium Battery with Unprecedented Voltage Efficiency. <b>2016</b> , 28, 2052-205	57 21
872	Evaluating the Contribution of Energy Storages to Support Large-Scale Renewable Generation in Joint Energy and Ancillary Service Markets. <b>2016</b> , 7, 808-818	82
871	Short-term bulk energy storage system scheduling for load leveling in unit commitment: modeling, optimization, and sensitivity analysis. <b>2016</b> , 7, 360-72	35

870	Comparison of two energy storage options for optimum balancing of wind farm power outputs. <b>2016</b> , 10, 832-839		23
869	Application of a generic superstructure-based formulation to the design of wind-pumped-storage hybrid systems on remote islands. <b>2016</b> , 111, 339-351		38
868	Environmental impacts of balancing offshore wind power with compressed air energy storage (CAES). <b>2016</b> , 95, 91-98		52
867	Stabilisation of grid assistance for a renewable hydrogen generation system by min-projection strategy. <b>2016</b> , 10, 183-189		4
866	Application of a hybrid energy storage system in the fast charging station of electric vehicles. <b>2016</b> , 10, 1092-1097		47
865	Comprehensive overview of grid interfaced wind energy generation systems. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 57, 260-281	16.2	86
864	Transient modeling and analysis of a DFIG based wind farm with supercapacitor energy storage. <b>2016</b> , 78, 414-421		52
863	The need for holistic enterprise control assessment methods for the future electricity grid. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 56, 669-685	16.2	14
862	A comprehensive review of low voltage ride through capability strategies for the wind energy conversion systems. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 56, 643-658	16.2	48
861	Optimal operation of microgrids through simultaneous scheduling of electrical vehicles and responsive loads considering wind and PV units uncertainties. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 57, 721-739	16.2	101
860	A model for the optimal design and management of a cogeneration system with energy storage. <b>2016</b> , 124, 241-247		45
859	Energy savings potential of uninterruptible power supplies in European Union. <b>2016</b> , 9, 993-1013		2
858	Relative merits of load following reserves & energy storage market integration towards power system imbalances. <b>2016</b> , 74, 222-229		16
857	Hydrogen sensor of Pd-decorated tubular TiO2 layer prepared by anodization with patterned electrodes on SiO2/Si substrate. <b>2016</b> , 222, 190-197		61
856	Integrating power systems for remote island energy supply: Lessons from Mykines, Faroe Islands. <b>2016</b> , 85, 642-648		23
855	Application of STATCOM-supercapacitor for low-voltage ride-through capability in DFIG-based wind farm. <b>2017</b> , 28, 2665-2674		28
854	New Multi-Stage and Stochastic Mathematical Model for Maximizing RES Hosting Capacity <b>P</b> art II: Numerical Results. <b>2017</b> , 8, 320-330		36
853	Short circuit fault analysis in a grid connected DFIG based wind energy system with active crowbar protection circuit for ridethrough capability and power quality improvement. <b>2017</b> , 84, 64-75		42

852	A rechargeable Al-ion battery: Al/molten AlCl-urea/graphite. <b>2017</b> , 53, 2331-2334		125
851	Pumped storage power stations in China: The past, the present, and the future. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 71, 720-731	16.2	41
850	Assessment of the Effectiveness of Energy Storage Resources in the Frequency Regulation of a Single-Area Power System. <b>2017</b> , 32, 3373-3380		37
849	Conceptual design of ammonia-based energy storage system: System design and time-invariant performance. <b>2017</b> , 63, 1620-1637		53
848	Environmental impact and economic assessment of secondary lead production: Comparison of main spent lead-acid battery recycling processes in China. <b>2017</b> , 144, 142-148		87
847	Toward highly stable solid-state unconventional thin-film battery-supercapacitor hybrid devices: Interfacing vertical core-shell array electrodes with a gel polymer electrolyte. <b>2017</b> , 342, 1006-1016		10
846	Enhancing smart grid with microgrids: Challenges and opportunities. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 72, 205-214	16.2	202
845	Review of the Energy Saving Hydraulic System Based on Common Pressure Rail. <b>2017</b> , 5, 655-669		46
844	Heuristic decision rules for short-term trading of renewable energy with co-located energy storage. <b>2017</b> , 83, 199-213		6
843	The synergistic role of renewable energy integration into the unit commitment of the energy water nexus. <b>2017</b> , 108, 220-229		28
842	Phase-change heat storage installation in combined heat and power plants for integration of renewable energy sources into power system. <b>2017</b> , 124, 640-651		36
841	Energy Storage Systems in Solar-Wind Hybrid Renewable Systems. <b>2017</b> , 189-222		3
840	Development of a converterless energy management system for reusing automotive lithium-ion battery applied in smart-grid balancing. <b>2017</b> , 156, 750-756		24
839	Power Management Approach to Minimize Battery Capacity in Wind Energy Conversion Systems. <b>2017</b> , 53, 4843-4854		19
838	Evaluation of Electrical Energy Storage (EES) technologies for renewable energy: A case from the US Pacific Northwest. <b>2017</b> , 11, 25-54		41
837	Technical and economic analysis on grid-connected wind farm based on hybrid energy storage system and distributed generators. <b>2017</b> ,		
836	Modeling and Design of \$df/dt\$ -Based Inertia Control for Power Converters. <b>2017</b> , 5, 1553-1564		48
835	Long-term power-to-gas potential from wind and solar power: A country analysis for Italy. <b>2017</b> , 42, 133	389-13	4 <b>9</b> 6

834	Using PHES to facilitate wind power integration in isolated systems ©ase study. 2017,		3
833	Environmental impacts of Lithium Metal Polymer and Lithium-ion stationary batteries. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 78, 46-60	16.2	58
832	Aggregated applications and benefits of energy storage systems with application-specific control methods: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 75, 719-741	16.2	45
831	A plug flow reactor model of a vanadium redox flow battery considering the conductive current collectors. <b>2017</b> , 360, 221-231		8
830	Autonomous Shared Mobility-On-Demand: Melbourne Pilot Simulation Study. <b>2017</b> , 22, 285-296		57
829	Multi-criteria algorithm-based methodology used to select suitable domes for compressed air energy storage. <b>2017</b> , 41, 2108-2120		10
828	Overview of battery energy storage system advancement for renewable (photovoltaic) energy applications. <b>2017</b> ,		16
827	Energy storage planning in electric power distribution networks 🖪 state-of-the-art review. Renewable and Sustainable Energy Reviews, 2017, 79, 1108-1121	16.2	115
826	An interdisciplinary review of energy storage for communities: Challenges and perspectives. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 79, 730-749	16.2	144
825	Process modelling of an alkaline water electrolyzer. <b>2017</b> , 42, 15689-15707		52
825 824	Process modelling of an alkaline water electrolyzer. <b>2017</b> , 42, 15689-15707  Electrode and electrolyte materials for electrochemical capacitors. <b>2017</b> , 42, 25565-25587		52 63
824	Electrode and electrolyte materials for electrochemical capacitors. <b>2017</b> , 42, 25565-25587		63
824 823	Electrode and electrolyte materials for electrochemical capacitors. <b>2017</b> , 42, 25565-25587  Numerical method for wind energy analysis applied to Apulia Region, Italy. <b>2017</b> , 128, 1-10  Comparative study of hydrogen storage and battery storage in grid connected photovoltaic		63
824 823 822	Electrode and electrolyte materials for electrochemical capacitors. 2017, 42, 25565-25587  Numerical method for wind energy analysis applied to Apulia Region, Italy. 2017, 128, 1-10  Comparative study of hydrogen storage and battery storage in grid connected photovoltaic system: Storage sizing and rule-based operation. 2017, 201, 397-411		63 11 92
824 823 822 821	Electrode and electrolyte materials for electrochemical capacitors. 2017, 42, 25565-25587  Numerical method for wind energy analysis applied to Apulia Region, Italy. 2017, 128, 1-10  Comparative study of hydrogen storage and battery storage in grid connected photovoltaic system: Storage sizing and rule-based operation. 2017, 201, 397-411  Porous membranes in secondary battery technologies. 2017, 46, 2199-2236  Conceptualizing sustainable development of conventional power systems in developing countries []	16.2	63 11 92 256
824 823 822 821	Electrode and electrolyte materials for electrochemical capacitors. 2017, 42, 25565-25587  Numerical method for wind energy analysis applied to Apulia Region, Italy. 2017, 128, 1-10  Comparative study of hydrogen storage and battery storage in grid connected photovoltaic system: Storage sizing and rule-based operation. 2017, 201, 397-411  Porous membranes in secondary battery technologies. 2017, 46, 2199-2236  Conceptualizing sustainable development of conventional power systems in developing countries  A contribution towards low carbon future. 2017, 126, 112-123	16.2	63 11 92 256

816	factical and operational management or wind energy systems with storage using a probabilistic forecast of the energy resource. <b>2017</b> , 102, 445-456	23
815	High-Performance Aluminum-Ion Battery with CuS@C Microsphere Composite Cathode. <b>2017</b> , 11, 469-477	298
814	Maximizing DISCO profit in active distribution networks by optimal planning of energy storage systems and distributed generators. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 71, 365-372	50
813	Renewable electricity consumption and economic development: New findings from the Baltic countries. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 71, 450-463	46
812	Solvent-Induced Rearrangement of Ion-Transport Channels: A Way to Create Advanced Porous Membranes for Vanadium Flow Batteries. <b>2017</b> , 27, 1604587	51
811	Renewable energy sources as a new participant in ancillary service markets. <b>2017</b> , 18, 106-120	61
810	Energy storage system utilisation to increase photovoltaic penetration in low voltage distribution feeders. <b>2017</b> , 14, 329-347	12
809	Optimal energy management of a grid-connected micro-hydrokinetic with pumped hydro storage system. <b>2017</b> , 14, 8-15	12
808	Study of SOFC-SOE transition on a RSOFC stack. <b>2017</b> , 42, 26037-26047	21
807	Estimating the Quantity of Wind and Solar Required To Displace Storage-Induced Emissions. <b>2017</b> , 51, 12988-12997	14
806	The Performance and Efficiency of Organic Electrolyte Redox Flow Battery Prototype. <b>2017</b> , 118, 54-62	7
805	Ambient-Temperature Energy Storage with Polyvalent MetalBulfur Chemistry. <b>2017</b> , 1, 1700217	31
804	Modelling the Dynamic Response and Loads of Floating Offshore Wind Turbine Structures With Integrated Compressed Air Energy Storage. <b>2017</b> ,	
803	Effect of Phosphate Additive for Thermal Stability in a Vanadium Redox Flow Battery. 2017, 14,	6
802	Energy Storage in Microgrids: Compensating for Generation and Demand Fluctuations While Providing Ancillary Services. <b>2017</b> , 15, 81-91	32
801	DC/DC converter topologies for electrolyzers: State-of-the-art and remaining key issues. <b>2017</b> , 42, 23966-239	<b>85</b> 6
800	An overview of energy storage and its importance in Indian renewable energy sector: Part II $\Box$ energy storage applications, benefits and market potential. <b>2017</b> , 13, 447-456	46
799	Developments in xEVs charging infrastructure and energy management system for smart microgrids including xEVs. <b>2017</b> , 35, 552-564	63

798	Flywheel energy storage systems for power systems application. 2017,	10
797	Role of pump hydro in electric power systems. <b>2017</b> , 813, 012002	7
796	Building a Climate Resilient Economy and Society. 2017,	1
795	Performance and cost evaluation of an innovative Pumped Thermal Electricity Storage power system. <b>2017</b> , 138, 419-436	71
794	Modeling DC-DC converter for charging supercapacitors. 2017,	
793	Optimal management of renewable energy sources by virtual power plant. <b>2017</b> , 114, 1180-1188	87
792	An efficient dye sensitized solar cells based on SrTiO3 nanoparticles prepared from a new amine-modified sol-gel route. <b>2017</b> , 243, 227-235	21
791	WITHDRAWN: Optimal Integrated Scheduling of Distributed Energy Resources in Power Systems by Virtual Power Plant. <b>2017</b> ,	2
790	Modeling and control of a variable speed wind turbine with a permanent magnet synchronous generator. <b>2017</b> ,	7
789	Two methods for damping torsional vibrations in DFIG-based wind generators using power converters. <b>2017</b> , 52, 012021	О
788	Electrode-Electrolyte Interfaces in Lithium-Sulfur Batteries with Liquid or Inorganic Solid Electrolytes. <b>2017</b> , 50, 2653-2660	122
787	Optimisation of continuous gas fermentation by immobilisation of acetate-producing Acetobacterium woodii. <b>2017</b> , 46, 96-103	11
786	Overview of wind power intermittency: Impacts, measurements, and mitigation solutions. <b>2017</b> , 204, 47-65	133
785	Techno-economics and environmental analysis of energy storage for a student residence under a South African time-of-use tariff rate. <b>2017</b> , 135, 413-429	10
784	Generation scheduling optimization of Wind-Energy Storage System based on wind power output fluctuation features. <b>2017</b> ,	
783	A design methodology of stand-alone photovoltaic power systems for rural electrification. <b>2017</b> , 148, 1127-1141	24
782	Techno-economic analysis of energy storage systems for application in wind farms. 2017, 135, 540-552	34
781	Theme evolution analysis of electrochemical energy storage research based on CitNetExplorer. <b>2017</b> , 110, 113-139	11

7 <sup>8</sup> 0	Power flow analysis in islanded Micro-Grids via modeling different operational modes of DGs: A review and a new approach. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 69, 248-262	16.2	43	
779	Use of Carbon Nanotubes in Third-Generation Solar Cells. <b>2017</b> , 201-249		3	
778	Bimetallic Cobalt-Based Phosphide Zeolitic Imidazolate Framework: CoPx Phase-Dependent Electrical Conductivity and Hydrogen Atom Adsorption Energy for Efficient Overall Water Splitting. <b>2017</b> , 7, 1601555		271	
777	Evaluating the Contribution of Energy Storages to Support Renewable Integrations. 2017, 225-246			
776	A Hybrid Krill-ANFIS Model for Wind Speed Forecasting. <b>2017</b> , 365-372		6	
775	Calculation of levelized costs of electricity for various electrical energy storage systems. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 67, 908-920	16.2	94	
774	An Integrated Energy Storage System Based on Hydrogen Storage. <b>2017</b> , 771-801		1	
773	Design and test of a new droop control algorithm for a SMES/battery hybrid energy storage system. <b>2017</b> , 118, 1110-1122		78	
77 <sup>2</sup>	The environmental impact of Li-Ion batteries and the role of key parameters IA review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 67, 491-506	16.2	334	
771	Feasibility study of energy storage by concentrating/desalinating water: Concentrated Water Energy Storage. <b>2017</b> , 185, 872-884		11	
<i>77</i> °	Recent approaches of unit commitment in the presence of intermittent renewable energy resources: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 70, 215-223	16.2	108	
769	An Integrated Dynamic Modeling and Adaptive Controller Approach for Flywheel Augmented DFIG Based Wind System. <b>2017</b> , 32, 2161-2171		21	
768	Economic and environmental analysis of a hybrid solar, wind and pumped storage hydroelectric energy source: a Polish perspective. <b>2017</b> , 65, 859-869		4	
767	Power quality study of large-scale wind farm with battery energy storage system. 2017,		4	
766	Utilization of virtual buffer in local area grids for electricity storage in smart power systems. 2017,		1	
765	A simulation study on impact of monotonie battery charging/discharging on cost and revenue of wind power plant. <b>2017</b> ,			
764	Energy Storage and Power Electronics Technologies: A Strong Combination to Empower the Transformation to the Smart Grid. <b>2017</b> , 105, 2191-2219		74	
763	Multi-period power management optimization for operating isolated hybrid microgrids. 2017,			

Smoothing power in microgrid by fast storage of electrical energy. **2017**,

 $_{761}$  Improved load frequency response in two area power system with battery energy storage. **2017**, 1

Operation strategy for grid-tied DC-coupling power converter interface integrating wind/solar/battery. **2017**, 93, 012062

759 Optimal utilization of storage systems under real-time pricing. 2017,

758 Statistical analysis and dimensioning of a wind farm energy storage system. **2017**, 66, 265-277

1

Output power smoothing of grid-connected permanent-magnet synchronous generator driven directly by variable speed wind turbine: a review. **2017**, 2017, 1755-1759

10

756 Microgrid battery and thermal storage for improved renewable penetration and curtailment. **2017**,

4

Provision of frequency containment reserves with batteries and power-to-heat. **2017**,

An overview of energy storage devices for distribution network. 2017,

3

Sizing of hybrid energy storage systems for frequency response of solar farms in ecuador. 2017,

752 . **2017**,

757

755

754

753

751

750

749

748

747

746

1

Thermodynamic characteristics of a novel wind-solar-liquid air energy storage system. **2017**, 278, 012070

2

Industry relevant RIE texturing for mc-Si diamond wire or Direct Wafer product: optimized reflectivity, uniformity, and throughput. **2017**,

2

Ammonia-Hydrogen Blends in Homogeneous-Charge Compression-Ignition Engine. 2017,

29

PV, Wind and Storage Integration on Small Islands for the Fulfilment of the 50-50 Renewable Electricity Generation Target. **2017**, 9, 905

12

Interconnecting Microgrids via the Energy Router with Smart Energy Management. **2017**, 10, 1297

23

Battery Storage Technologies for Electrical Applications: Impact in Stand-Alone Photovoltaic Systems. **2017**, 10, 1760

65

A Wind Power Plant with Thermal Energy Storage for Improving the Utilization of Wind Energy. **2017**, 10, 2126

18

744	Capacity optimization of hybrid energy storage for smoothing power fluctuations based on spectrum analysis. <b>2017</b> ,		О
743	Break-Even Points of Battery Energy Storage Systems for Peak Shaving Applications. <b>2017</b> , 10, 833		20
742	Feasibility analysis of storage systems in wind plants (an Italian application. 2017,		3
741	Intermittent Smoothing Approaches for Wind Power Output: A Review. <b>2017</b> , 10, 1572		26
740	Determining the Minimal Power Capacity of Energy Storage to Accommodate Renewable Generation. <b>2017</b> , 10, 468		16
739	Use of phase change materials during compressed air expansion for isothermal CAES plants. <b>2017</b> , 923, 012037		3
738	Transient Performance Enhancement Control of Flywheel Energy Storage System for PPL Accommodation. <b>2017</b> ,		
737	Predictive Operation and Optimal Sizing of Battery Energy Storage With High Wind Energy Penetration. <b>2018</b> , 65, 6686-6695		47
736	Developing a grid-connected power optimization strategy for the integration of wind power with low-temperature adiabatic compressed air energy storage. <b>2018</b> , 125, 73-86		31
735	Sustainability prioritization of energy storage technologies for promoting the development of renewable energy: A novel intuitionistic fuzzy combinative distance-based assessment approach. <b>2018</b> , 121, 666-676		53
734	Energy and cost analysis of an Air Cycle used as prime mover of a Thermal Electricity Storage. <b>2018</b> , 17, 29-46		14
733	Optimal selection of air expansion machine in Compressed Air Energy Storage: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 87, 77-95	16.2	59
732	Facilitating high-capacity V2O5 cathodes with stable two and three Li+ insertion using a hybrid membrane structure consisting of amorphous V2O5 shells coaxially deposited on electrospun carbon nanofibers. <b>2018</b> , 269, 144-154		12
731	A multi-objective optimization approach for selection of energy storage systems. <b>2018</b> , 115, 213-225		37
730	Experimental and analytical evaluation of a hydro-pneumatic compressed-air Ground-Level Integrated Diverse Energy Storage (GLIDES) system. <b>2018</b> , 221, 75-85		27
729	Micron-sized water spray-cooled quasi-isothermal compression for compressed air energy storage. <b>2018</b> , 96, 470-481		23
728	Microgrids: A review of technologies, key drivers, and outstanding issues. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 90, 402-411	16.2	550
727	Numerical study on vanadium redox flow battery performance with non-uniformly compressed electrode and serpentine flow field. <b>2018</b> , 220, 106-116		59

726	Tracking the transition to renewable electricity in remote indigenous communities in Canada. <b>2018</b> , 118, 169-181	24
725	Modeling long correlation times using additive binary Markov chains: Applications to wind generation time series. <b>2018</b> , 97, 032138	7
724	Optimal Sizing of Energy Storage Devices in Isolated Wind-Diesel Systems Considering Load Growth Uncertainty. <b>2018</b> , 54, 1983-1991	32
723	Reliability assessment of generating systems containing wind power and air separation unit with cryogenic energy storage. <b>2018</b> , 16, 116-124	14
722	Techno-economic assessment of dispatchable hydrogen production by multiple electrolysers in Libya. <b>2018</b> , 16, 46-60	12
721	A quaternary sodium superionic conductor - Na10.8Sn1.9PS11.8. <b>2018</b> , 47, 325-330	45
720	Pumped Thermal Electricity Storage: A technology overview. <b>2018</b> , 6, 301-315	87
719	Designing and analyzing an electric energy storage system based on reversible solid oxide cells. <b>2018</b> , 159, 381-395	22
718	Superconductor magnetic energy storage system usage for distributed generation: Active/reactive power and voltage controller design in connected and disconnected cases. <b>2018</b> , 28, e2531	4
717	Generation Scheduling Optimization of Wind-Energy Storage System Based on Wind Power Output Fluctuation Features. <b>2018</b> , 54, 10-17	39
716	Design, simulation and experimental evaluation of energy system for an unmanned surface vehicle. <b>2018</b> , 148, 362-372	13
715	System-level power-to-gas energy storage for high penetrations of variable renewables. <b>2018</b> , 43, 1966-1979	39
714	A non-aqueous Li/organosulfur semi-solid flow battery. <b>2018</b> , 29, 716-718	13
713	Heat transfer fluid and material selection for an innovative Pumped Thermal Electricity Storage system. <b>2018</b> , 147, 155-168	34
712	Elimination of active species crossover in a room temperature, neutral pH, aqueous flow battery using a ceramic NaSICON membrane. <b>2018</b> , 378, 353-361	17
711	Modeling the temporal correlation of hourly day-ahead short-term wind power forecast error for optimal sizing energy storage system. <b>2018</b> , 98, 373-381	19
710	MoSe2/phosphorus-doped graphene nanocomposite: Synthesis and its electrochemical sodium-storage and catalytic performance. <b>2018</b> , 551, 87-94	14
709	Optimal energy storage sizing using equivalent circuit modelling for prosumer applications (Part II). <b>2018</b> , 18, 1-15	8

#### (2018-2018)

708	An international experience of technical and economic aspects of ancillary services in deregulated power industry: Lessons for emerging BRIC electricity markets. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 90, 774-801	16.2	16
707	On optimal participation in the electricity markets of wind power plants with battery energy storage systems. <b>2018</b> , 96, 316-329		46
706	Optimal control of energy storage under random operation permissions. <b>2018</b> , 50, 668-682		4
705	Online algorithms for storage utilization under real-time pricing in smart grid. <b>2018</b> , 101, 50-59		7
704	Performance Guaranteed Control of Flywheel Energy Storage System for Pulsed Power Load Accommodation. <b>2018</b> , 33, 3994-4004		15
703	Microgrid Architecture Evaluation for Small and Medium Size Industries. 2018, 19,		
702	Reactive Power Compensation Game Under Prospect-Theoretic Framing Effects. <b>2018</b> , 9, 4181-4193		13
701	A review on frequency support provision by wind power plants: Current and future challenges. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 81, 2071-2087	16.2	84
700	A review of supercapacitor modeling, estimation, and applications: A control/management perspective. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 81, 1868-1878	16.2	380
699	Hybrid Energy Storage System Microgrids Integration for Power Quality Improvement Using Four-Leg Three-Level NPC Inverter and Second-Order Sliding Mode Control. <b>2018</b> , 65, 424-435		67
698	Optimal forward trading and battery control under renewable electricity generation. <b>2018</b> , 95, 244-254		5
697	Energy management for stationary electric energy storage systems: A systematic literature review. <b>2018</b> , 264, 582-606		68
696	Sustainability ranking of energy storage technologies under uncertainties. 2018, 170, 1387-1398		59
695	Combining plasma gasification and solid oxide cell technologies in advanced power plants for waste to energy and electric energy storage applications. <b>2018</b> , 73, 424-438		23
694	Technical performance analysis and economic evaluation of a compressed air energy storage system integrated with an organic Rankine cycle. <b>2018</b> , 211, 318-330		29
693	Automation of the Storing-In Part of a Hydrogen-Storage System using Liquid Organic Hydrogen Carriers. <b>2018</b> , 6, 547-557		7
692	A review at the role of storage in energy systems with a focus on Power to Gas and long-term storage. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 81, 1049-1086	16.2	283
691	Adaptive virtual inertia-based frequency regulation in wind power systems. <b>2018</b> , 115, 558-574		45

690	Actuator and generator based on moisture-responsive PEDOT: PSS/PVDF composite film. <b>2018</b> , 255, 1415-1421	36
689	Cost metrics of electrical energy storage technologies in potential power system operations. <b>2018</b> , 25, 43-59	55
688	From zeolite-type metal organic framework to porous nano-sheet carbon: High activity positive electrode material for bromine-based flow batteries. <b>2018</b> , 44, 240-247	30
687	The next generation vanadium flow batteries with high power density - a perspective. <b>2017</b> , 20, 23-35	89
686	Techno-economic role of PV tracking technology in a hybrid PV-hydroelectric standalone power system. <b>2018</b> , 212, 84-108	47
685	Green Approach for Joint Management of Geo-Distributed Data Centers and Interconnection Networks. <b>2018</b> , 26, 723-754	5
684	Techno-economic analysis of grid-tied energy storage. <b>2018</b> , 15, 231-242	5
683	Energetical Analysis of Two Different Configurations of a Liquid-Gas Compressed Energy Storage. <b>2018</b> , 11, 3405	2
682	A Robust Scheduling Optimization Model for an Integrated Energy System with P2G Based on Improved CVaR. <b>2018</b> , 11, 3437	8
681	Comprehensive Performance Assessment on Various Battery Energy Storage Systems. <b>2018</b> , 11, 2841	23
680	Integration of Energy Storage System with Renewable Energy Source. 2018,	O
679	Centrally Managed Storage Facilities in Small Non-Interconnected Island Systems. 2018,	1
678	Multi-operating Modes Based Energy Management Strategy of Virtual Power Plant. 2018,	1
677	Failure analysis on Mobile Phone Batteries and Accessories. 2018,	
676	Evaluating frequency regulation operated on two stationary energy systems with batteries from electric vehicles. <b>2018</b> , 155, 32-43	8
675	Optimal Wind Power Allocation applied to Chilean National Electric System. 2018,	
674	Performance Review on Small-Medium Scales Energy Storage System in term of Investment Aspect. <b>2018</b> ,	
673	Research and Practice on High Efficiency Management Mode for Wind Solar Storage and Transportation. <b>2018</b> ,	

## (2018-2018)

672	Hydrogen production from bio-oil: A thermodynamic analysis of sorption-enhanced chemical looping steam reforming. <b>2018</b> , 43, 22032-22045	37
671	Machine-Learning-Based Cyclic Voltammetry Behavior Model for Supercapacitance of Co-Doped Ceria/rGO Nanocomposite. <b>2018</b> , 58, 2517-2527	8
670	BESS Techno-economic Challenges to Support Wind Energy: Mind Mapping and Correlation Matrix. <b>2018</b> ,	
669	Use of Carbon Nanotubes (CNTs) in Third-Generation Solar Cells. <b>2018</b> , 551-609	
668	Energy Storage Coordination in Energy Internet Based on Multi-Agent Particle Swarm Optimization. <b>2018</b> , 8, 1520	5
667	Operational Flexibility Assessment by Condensate Throttling Coupled With Thermal Storage Tanks on a 660 MW Supercritical Coal-Fired Power Plant. <b>2018</b> ,	1
666	An Economic Model Predictive Control Approach for Wind Power Smoothing and Tower Load Mitigation. <b>2018</b> ,	0
665	Community energy storage: A responsible innovation towards a sustainable energy system?. <b>2018</b> , 231, 570-585	93
664	A membrane-free interfacial battery with high energy density. <b>2018</b> , 54, 11626-11629	9
663	Optimal sizing of hybrid PV and wind energy system with backup of redox flow battery to postpone grid expansion investments. <b>2018</b> , 10, 055903	8
662	Renewable energy investments with storage: a risk-return analysis. 2018, 12, 714-736	5
661	Microgrid modelling: A comprehensive survey. <b>2018</b> , 46, 216-250	30
660	Modeling and Control of a 600 kW Closed Hydraulic Wind Turbine with an Energy Storage System. <b>2018</b> , 8, 1314	17
659	Modelling, Parameter Identification, and Experimental Validation of a Lead Acid Battery Bank Using Evolutionary Algorithms. <b>2018</b> , 11, 2361	8
658	Development of Energy Storage Systems for Power Network Reliability: A Review. <b>2018</b> , 11, 2278	63
657	Multi-Objective Optimization of Hybrid Renewable Energy System Using Reformed Electric System Cascade Analysis for Islanding and Grid Connected Modes of Operation. <b>2018</b> , 6, 47332-47354	33
656	Computational Molecular Modeling of Transport Processes in Nanoporous Membranes. 2018, 6, 124	12
655	Metal-organic frameworks and their derivatives as bifunctional electrocatalysts. <b>2018</b> , 376, 430-448	125

654	Peak shaving algorithm with dynamic minimum voltage tracking for battery storage systems in microgrid applications. <b>2018</b> , 20, 41-48	16
653	Dependence of supercapacitor performance on macro-structure of monolithic biochar electrodes. <b>2018</b> , 118, 126-132	14
652	Characterization of Carbon Felt Electrodes for Vanadium Redox Flow Batteries: Impact of Treatment Methods. <b>2018</b> , 165, A2577-A2586	50
651	Foundations and Challenges of Low-Inertia Systems (Invited Paper). 2018,	142
650	Comparative Study of Electric Energy Storages and Thermal Energy Auxiliaries for Improving Wind Power Integration in the Cogeneration System. <b>2018</b> , 11, 263	9
649	Optimisation of the Structure of a Wind FarmKinetic Energy Storage for Improving the Reliability of Electricity Supplies. <b>2018</b> , 8, 1439	8
648	Power System Stability Analysis of SMIB with FOPID using Cuckoo Search Optimized Differential Evaluation. <b>2018</b> , 7, 5	
647	Optimization of Identification Structure Parameters Based on Recursive Maximum Likelihood Iteration. <b>2018</b> ,	O
646	On the Lie Bracket Approximation Approach to Distributed optimization: Extensions and Limitations. <b>2018</b> ,	3
645	Energy management strategies for smart home regarding uncertainties: State of the art, trends, and challenges. <b>2018</b> ,	12
644	Progress on the Critical Parameters for LithiumBulfur Batteries to be Practically Viable. 2018, 28, 1801188	257
643	Large scale electrical energy storage systems in India- current status and future prospects. <b>2018</b> , 18, 112-120	14
642	Design methodology for a dcdc power conversion system with EIS capability for battery packs. <b>2018</b> , 87, 15-34	5
641	Optimal Renewable Energy Systems: Minimizing the Cost of Intermittent Sources and Energy Storage. <b>2018</b> , 485-504	4
640	Integrated Planning of Energy and Water Supply in Islands. 2018, 331-374	1
639	Resilient Battery Management For Buildings. <b>2018</b> , 249-266	2
638	Comparison study of the technical characteristics and financial analysis of electric battery storage systems for residential grid. <b>2018</b> ,	4
637	Nanotechnology Applications for Environmental Industry. <b>2018</b> , 894-907	19

Endorsing Stable and Steady Power Supply by Exploiting Energy Storage Technologies: A Study of Kuwait® Power Sector. **2018**, 3-11

635	Frequency Regulation of a Hybrid WindHydro Power Plant in an Isolated Power System. <b>2018</b> , 11, 239		32
634	Economic Value Assessment and Optimal Sizing of an Energy Storage System in a Grid-Connected Wind Farm. <b>2018</b> , 11, 591		8
633	A Review on Battery Charging and Discharging Control Strategies: Application to Renewable Energy Systems. <b>2018</b> , 11, 1021		30
632	Research on the Robustness of the Constant Speed Control of Hydraulic Energy Storage Generation. <b>2018</b> , 11, 1310		6
631	Reversible Heat Pump\(D\)rganic Rankine Cycle Systems for the Storage of Renewable Electricity. <b>2018</b> , 11, 1352		25
630	Optimization Strategy for Economic Power Dispatch Utilizing Retired EV Batteries as Flexible Loads. <b>2018</b> , 11, 1657		9
629	Energy storage for electricity generation and related processes: Technologies appraisal and grid scale applications. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 94, 804-821	16.2	178
628	Optimal planning of capacities and distribution of electric heater and heat storage for reduction of wind power curtailment in power systems. <b>2018</b> , 160, 763-773		14
627	Efficiency Improvement Using Molybdenum Disulphide Interlayers in Single-Wall Carbon Nanotube/Silicon Solar Cells. <b>2018</b> , 11,		6
626	Experimental and numerical study of flow in expanded metal plate for water electrolysis applications. <b>2018</b> , 397, 334-342		5
625	Hierarchical flower-like SnS grafted with glucosamine-derived nitrogen-doped carbon with enhanced reversible Li-storage performance. <b>2018</b> , 458, 86-94		19
624	Power management and second-order sliding mode control for standalone hybrid wind energy with battery energy storage system. <b>2018</b> , 232, 1389-1411		4
623	Metal <b>D</b> rganic Framework Based Catalysts for Hydrogen Evolution. <b>2018</b> , 8, 1801193		233
622	Deriving hazardous material flow networks: A case study of lead in China. <b>2018</b> , 199, 391-399		7
621	Cell Configurations and Electrode Materials for Nonaqueous Sodium-Ion Capacitors: The Current State of the Field. <b>2018</b> , 2, 1800006		14
620	Time-dependent behavior of a recompression cycle with direct CO2 heating through a parabolic collector array. <b>2018</b> , 140, 593-603		7
619	Review of HRESs based on storage options, system architecture and optimisation criteria and methodologies. <b>2018</b> , 12, 747-760		35

618	Energy storage system expansion planning in power systems: a review. <b>2018</b> , 12, 1203-1221	30
617	Increasing operational flexibility of supercritical coal-fired power plants by regulating thermal system configuration during transient processes. <b>2018</b> , 228, 2375-2386	46
616	Energy sources and multi-input DC-DC converters used in hybrid electric vehicle applications [A review. <b>2018</b> , 43, 17387-17408	58
615	Smart Grid Architecture for Rural Distribution Networks: Application to a Spanish Pilot Network. <b>2018</b> , 11, 844	13
614	Impact of climate change on backup energy and storage needs in wind-dominated power systems in Europe. <b>2018</b> , 13, e0201457	19
613	The impact of energy storage modeling in coordination with wind farm and thermal units on security and reliability in a stochastic unit commitment. <b>2018</b> , 162, 476-490	20
612	Multiple power-based building energy management system for efficient management of building energy. <b>2018</b> , 42, 462-470	23
611	An assessment methodology of sustainable energy transition scenarios for realizing energy neutral neighborhoods. <b>2018</b> , 228, 2346-2360	24
610	Evaluating a new concept to integrate compressed air energy storage in spar-type floating offshore wind turbine structures. <b>2018</b> , 166, 232-241	16
609	Review of Energy Storage System Technologies in Microgrid Applications: Issues and Challenges. <b>2018</b> , 6, 35143-35164	209
608	Overview of energy storage systems in distribution networks: Placement, sizing, operation, and power quality. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 91, 1205-1230	198
607	Energy storage control algorithm for suppression of fluctuation of wind farm output power. 2018,	
606	Dispatchable hydrogen production by multiple electrolysers to provide clean fuel and responsive demand in Libya. <b>2018</b> ,	0
605	Eigen analysis of windflydro joint frequency regulation in an isolated power system. <b>2018</b> , 103, 511-524	19
604	Optimal placement, sizing, and daily charge/discharge of battery energy storage in low voltage distribution network with high photovoltaic penetration. <b>2018</b> , 226, 957-966	99
604		99
ŕ	distribution network with high photovoltaic penetration. <b>2018</b> , 226, 957-966  Optimal stochastic scheduling of cryogenic energy storage with wind power in the presence of a	

600	Dynamic modeling and design of a hybrid compressed air energy storage and wind turbine system for wind power fluctuation reduction. <b>2019</b> , 122, 59-65	29
599	Life cycle cost analysis: A case study of hydrogen energy application on the Orkney Islands. <b>2019</b> , 44, 9517-9528	43
598	Concise synthesis of NaTi2(PO4)3 nanocrystals with size and morphology control. 2019, 30, 517-520	6
597	Comprehensive Overview of Low Voltage Ride Through Methods of Grid Integrated Wind Generator. <b>2019</b> , 7, 99299-99326	64
596	SbSe nanorods with N-doped reduced graphene oxide hybrids as high-capacity positive electrode materials for rechargeable aluminum batteries. <b>2019</b> , 11, 16437-16444	24
595	Ramp rate abatement for wind power plants: A techno-economic analysis. <b>2019</b> , 254, 113600	10
594	Reliability and economic assessment of compressed air energy storage in transmission constrained wind integrated power system. <b>2019</b> , 25, 100830	7
593	Cost Analysis of Electricity Transmission from Offshore Wind Farm by HVDC and Hydrogen Pipeline Systems. <b>2019</b> ,	2
592	Virtual inertial support extraction using a super-capacitor for a wind-PMSG application. <b>2019</b> , 13, 1802-1808	4
591	Improving Microgrid Frequency Regulation Based on the Virtual Inertia Concept while Considering Communication System Delay. <b>2019</b> , 12, 2016	9
590	Optimal Sizing of Battery Energy Storage for a Grid-Connected Microgrid Subjected to Wind Uncertainties. <b>2019</b> , 12, 2412	15
589	Renewable energy powered membrane technology: A review of the reliability of photovoltaic-powered membrane system components for brackish water desalination. <b>2019</b> , 253, 113524	34
588	Redox targeting-based flow batteries. <b>2019</b> , 52, 443001	25
587	Energy Storage Technologies in MVDC Microgrids. <b>2019,</b> 189-207	
586	Progress and Perspectives of Flow Battery Technologies. <b>2019</b> , 2, 492-506	65
585	Review on clean recovery of discarded/spent lead-acid battery and trends of recycled products. <b>2019</b> , 436, 226853	31
584	Valorization of sewage sludge via non-catalytic transesterification. <b>2019</b> , 131, 105035	19
583	Numerical investigation of convective transport in redox flow battery tanks: Using baffles to increase utilization. <b>2019</b> , 25, 100840	5

582	Analysis of Dynamic Characteristics of a 600 kW Storage Type Wind Turbine with Hybrid Hydraulic Transmission. <b>2019</b> , 7, 397		6
581	Electrical Energy Storage Technologies and the Application Potential in Power System Operation: A Mini Review. <b>2019</b> ,		1
580	Reversible solid oxide systems for energy and chemical applications [Review & perspectives. <b>2019</b> , 24, 100782		39
579	Low-voltage ride-through enhancement with the hand T controls of PMSG in a grid-integrated wind generation system. <b>2019</b> , 13, 1979-1988		9
578	The past, present and potential of hydrogen as a multifunctional storage application for wind power. <i>Renewable and Sustainable Energy Reviews</i> , <b>2019</b> , 112, 917-929	16.2	44
577	Experimental investigation of energy dissipation in the multi-cylinder Couette-Taylor system with independently rotating cylinders. <b>2019</b> , 251, 113362		5
576	An Intelligent Battery Energy Storage-Based Controller for Power Quality Improvement in Microgrids. <b>2019</b> , 12, 2112		11
575	GRID ENERGY STORAGE SYSTEMS. <b>2019</b> , 495-583		1
574	A TiN Nanorod Array 3D Hierarchical Composite Electrode for Ultrahigh-Power-Density Bromine-Based Flow Batteries. <b>2019</b> , 31, e1904690		23
573	Recent Progress on Zinc-Ion Rechargeable Batteries. <b>2019</b> , 11, 90		114
573 572	Recent Progress on Zinc-Ion Rechargeable Batteries. 2019, 11, 90  WITHDRAWN: Enhancement of efficiency of single walled carbon nanotubes-n-type silicon solar cells using molybdenum disulfide. 2019,		114
	WITHDRAWN: Enhancement of efficiency of single walled carbon nanotubes-n-type silicon solar	16.2	114 27
572	WITHDRAWN: Enhancement of efficiency of single walled carbon nanotubes-n-type silicon solar cells using molybdenum disulfide. <b>2019</b> ,  Balancing wind-power fluctuation via onsite storage under uncertainty:  Power-to-hydrogen-to-power versus lithium battery. <i>Renewable and Sustainable Energy Reviews</i> ,	16.2	
57 <sup>2</sup>	WITHDRAWN: Enhancement of efficiency of single walled carbon nanotubes-n-type silicon solar cells using molybdenum disulfide. <b>2019</b> ,  Balancing wind-power fluctuation via onsite storage under uncertainty: Power-to-hydrogen-to-power versus lithium battery. <i>Renewable and Sustainable Energy Reviews</i> , <b>2019</b> , 116, 109465  Control of Hybrid Diesel/PV/Battery/Ultra-Capacitor Systems for Future Shipboard Microgrids.	16.2	27
572 571 570	WITHDRAWN: Enhancement of efficiency of single walled carbon nanotubes-n-type silicon solar cells using molybdenum disulfide. <b>2019</b> ,  Balancing wind-power fluctuation via onsite storage under uncertainty: Power-to-hydrogen-to-power versus lithium battery. <i>Renewable and Sustainable Energy Reviews</i> , <b>2019</b> , 116, 109465  Control of Hybrid Diesel/PV/Battery/Ultra-Capacitor Systems for Future Shipboard Microgrids. <b>2019</b> , 12, 3460  Energy efficient control of a stand-alone wind energy conversion system with AC current harmonics	16.2	27
57 <sup>2</sup> 57 <sup>1</sup> 57 <sup>0</sup> 569	WITHDRAWN: Enhancement of efficiency of single walled carbon nanotubes-n-type silicon solar cells using molybdenum disulfide. 2019,  Balancing wind-power fluctuation via onsite storage under uncertainty: Power-to-hydrogen-to-power versus lithium battery. Renewable and Sustainable Energy Reviews, 2019, 116, 109465  Control of Hybrid Diesel/PV/Battery/Ultra-Capacitor Systems for Future Shipboard Microgrids. 2019, 12, 3460  Energy efficient control of a stand-alone wind energy conversion system with AC current harmonics compensation. 2019, 93, 104185  A novel approach for reactive power compensation in hybrid wind-battery system using	16.2	27 13 8
57 <sup>2</sup> 57 <sup>1</sup> 57 <sup>0</sup> 569 568	WITHDRAWN: Enhancement of efficiency of single walled carbon nanotubes-n-type silicon solar cells using molybdenum disulfide. 2019,  Balancing wind-power fluctuation via onsite storage under uncertainty: Power-to-hydrogen-to-power versus lithium battery. Renewable and Sustainable Energy Reviews, 2019, 116, 109465  Control of Hybrid Diesel/PV/Battery/Ultra-Capacitor Systems for Future Shipboard Microgrids. 2019, 12, 3460  Energy efficient control of a stand-alone wind energy conversion system with AC current harmonics compensation. 2019, 93, 104185  A novel approach for reactive power compensation in hybrid wind-battery system using distribution static compensator. 2019, 44, 27907-27920	16.2	27 13 8

564	Highly Integrated Triboelectric Nanogenerator for Efficiently Harvesting Raindrop Energy. <b>2019</b> , 4, 1900608	23
563	Methodology for the sizing of a hybrid energy storage system in low voltage distribution grids. <b>2019</b> ,	1
562	Safety regulation of gel electrolytes in electrochemical energy storage devices. <b>2019</b> , 62, 1556-1573	13
561	Hydrothermal synthesis of transition metal sulfides/MWCNT nanocomposites for high-performance asymmetric electrochemical capacitors. <b>2019</b> , 322, 134738	12
560	FeSe/carbon nanotube hybrid lithium-ion battery for harvesting energy from triboelectric nanogenerators. <b>2019</b> , 55, 10960-10963	21
559	Review of energy storage technologies in harsh environment. <b>2019</b> , 1, 11-25	7
558	Electrochemical studies of modified carbon black in supercapacitors. 2019,	0
557	Vanadium redox flow batteries: A comprehensive review. <b>2019</b> , 25, 100844	176
556	Challenges and opportunities for supercapacitors. <b>2019</b> , 7, 100901	85
555	Investigation on reversible pump turbine flow structures and associated pressure field characteristics under different guide vane openings. <b>2019</b> , 62, 2052-2074	6
554	Optimal design and sensitivity analysis of a PV-WT-hydraulic storage system generation in a remote area in Tunisia. <b>2019</b> , 1-15	5
		J
553	Process design, operation and economic evaluation of compressed air energy storage (CAES) for wind power through modelling and simulation. <b>2019</b> , 136, 923-936	32
553 552	Process design, operation and economic evaluation of compressed air energy storage (CAES) for	
	Process design, operation and economic evaluation of compressed air energy storage (CAES) for wind power through modelling and simulation. <b>2019</b> , 136, 923-936	32
552	Process design, operation and economic evaluation of compressed air energy storage (CAES) for wind power through modelling and simulation. <b>2019</b> , 136, 923-936  System design of underwater battery power system for marine and offshore industry. <b>2019</b> , 21, 724-740  Study of energy storage systems and environmental challenges of batteries. <i>Renewable and</i>	32 11
552 551	Process design, operation and economic evaluation of compressed air energy storage (CAES) for wind power through modelling and simulation. 2019, 136, 923-936  System design of underwater battery power system for marine and offshore industry. 2019, 21, 724-740  Study of energy storage systems and environmental challenges of batteries. Renewable and Sustainable Energy Reviews, 2019, 104, 192-208  Recent advances in BiVO4 semiconductor materials for hydrogen production using	32 11 255
552 551 550	Process design, operation and economic evaluation of compressed air energy storage (CAES) for wind power through modelling and simulation. 2019, 136, 923-936  System design of underwater battery power system for marine and offshore industry. 2019, 21, 724-740  Study of energy storage systems and environmental challenges of batteries. Renewable and Sustainable Energy Reviews, 2019, 104, 192-208  Recent advances in BiVO4 semiconductor materials for hydrogen production using photoelectrochemical water splitting. Renewable and Sustainable Energy Reviews, 2019, 111, 332-343  Reduction of Power Production Costs in a Wind Power Plantflywheel Energy Storage System	32 11 255 94

546	A Hierarchical Self-Regulation Control for Economic Operation of AC/DC Hybrid Microgrid With Hydrogen Energy Storage System. <b>2019</b> , 7, 89330-89341	15
545	Efficient Nitrogen-Doped Carbon for Zinc-Bromine Flow Battery. <b>2019</b> , 15, e1901848	31
544	A coordinated control and management strategy of a wind energy conversion system for a universal low-voltage ride-through capability. <b>2019</b> , 29, e12035	5
543	Recent Studies on Bifunctional Perovskite Electrocatalysts in Oxygen Evolution, Oxygen Reduction, and Hydrogen Evolution Reactions under Alkaline Electrolyte. <b>2019</b> , 59, 708-719	10
542	Building aqueous K-ion batteries for energy storage. <b>2019</b> , 4, 495-503	381
541	Energy Storage Sizing Strategy for Grid-Tied PV Plants under Power Clipping Limitations. <b>2019</b> , 12, 1812	14
540	Trade-off designs of power-to-methane systems via solid-oxide electrolyzer and the application to biogas upgrading. <b>2019</b> , 247, 572-581	18
539	Application of a Superconducting Fault Current Limiter to Enhance the Low-Voltage Ride-Through Capability of Wind Turbine Generators. <b>2019</b> , 12, 1478	8
538	An aqueous rechargeable sodium thagnesium mixed ion battery based on NaTi2(PO4)3 MnO2 system. <b>2019</b> , 311, 1-7	14
537	Analysis of the Peak Load Leveling Mode of a Hybrid Power System with Flywheel Energy Storage in Oil Drilling Rig. <b>2019</b> , 12, 606	1
536	Dispatchability of solar photovoltaics from thermochemical energy storage. <b>2019</b> , 191, 237-246	23
535	Pyrolysis of aquatic carbohydrates using CO2 as reactive gas medium: A case study of chitin. <b>2019</b> , 177, 136-143	14
534	Effect of Rare Earth Ce on the Microstructure and Mechanical Properties of 34CrNiMo6 Steel for Wind Turbine Main Shaft. <b>2019</b> , 2019, 1-9	1
533	A simply designed galvanic device with an electrocatalytic reaction. <b>2019</b> , 43, 6279-6287	3
532	Optimal sizing of energy storage considering the spatial-temporal correlation of wind power forecast errors. <b>2019</b> , 13, 530-538	10
531	Review of energy storage and transportation of energy. <b>2019</b> , 1, e49	91
530	Study on Novel Topology of Solar Wind Hybrid Power Plant Using Photovoltaic Cell Emulating System. <b>2019</b> , 14, 627-634	4
529	A dynamic model for discharge research of zinc-nickel single flow battery. <b>2019</b> , 307, 573-581	12

528	Nanogenerator-Based Self-Charging Energy Storage Devices. <b>2019</b> , 11, 19	33
527	Storage and Demand-Side Options for Integrating Wind Power. <b>2019</b> , 303-320	
526	Handling Renewable Energy Variability and Uncertainty in Power System Operation. 2019, 1-26	2
525	Cell Balancing Topologies in Battery Energy Storage Systems: A Review. <b>2019</b> , 159-165	4
524	The impact of carbonate solvents on the self-discharge, thermal stability and performance retention of high voltage electrochemical double layer capacitors. <b>2019</b> , 21, 9089-9097	12
523	Numerical Simulation Three-Dimensional Nonlinear Seepage in a Pumped-Storage Power Station: Case Study. <b>2019</b> , 12, 180	4
522	A novel voltage stability and quality index demonstrated on a low voltage distribution network with multifunctional energy storage systems. <b>2019</b> , 171, 264-282	14
521	A review of multi-criteria decision making approaches for evaluating energy storage systems for grid applications. <i>Renewable and Sustainable Energy Reviews</i> , <b>2019</b> , 107, 516-534	2 82
520	Energy Storage Scheduling in Distribution Systems Considering Wind and Photovoltaic Generation Uncertainties. <b>2019</b> , 12, 1231	53
519	Sizing and applications of battery energy storage technologies in smart grid system: A review. <b>2019</b> , 11, 014105	40
518	Membranes Fabricated by Solvent treatment for Flow Battery: Effects of initial structures and intrinsic properties. <b>2019</b> , 577, 212-218	12
517	Design of a Supervisory Control System Based on Fuzzy Logic for a Hybrid System Comprising Wind Power, Battery and Ultracapacitor Energy Storage System. <b>2019</b> , 189-212	2
516	Classical and fractional-order modeling of equivalent electrical circuits for supercapacitors and batteries, energy management strategies for hybrid systems and methods for the state of charge estimation: A state of the art review. <b>2019</b> , 85, 109-128	34
515	Review on Technologies of Compressed Air Energy Storage in Aquifers. 2019,	
514	A novel two-stage model predictive control for wind power smoothing based on HESS. 2019,	
513	Control Mechanisms of Energy Storage Devices. 2019,	1
512	Engineering energy storage sizing method considering the energy conversion loss on facilitating wind power integration. <b>2019</b> , 13, 1693-1699	7
511	MPC for Optimized Energy Exchange between Two Renewable-Energy Prosumers. <b>2019</b> , 9, 3709	7

510	CNN-Based Analysis of Crowd Structure using Automatically Annotated Training Data. 2019,	2
509	Design and Realization of Eye Control System for Small Ground Unmanned Platform. 2019,	O
508	Beam-Superposition-Based Multi-beam RSMA for Hybrid mmWave Systems. 2019,	1
507	Design Approach to Dual-Resonant, Very Low-Profile Circular Sector Patch Antennas. <b>2019</b> ,	1
506	Estimating Metric Scale Visual Odometry from Videos using 3D Convolutional Networks. 2019,	О
505	Discussion about the Effect of Permanent Magnet Segmentation on Its Temperature Rising. 2019,	
504	Sinhala Hate Speech Detection in Social Media using Text Mining and Machine learning. 2019,	2
503	IoT Based Agriculture Using AGRIBOT. <b>2019</b> ,	1
502	Automatic Group Level Affect and Cohesion Prediction in Videos. 2019,	7
501	Human posture recognition based on multi-channel SAR at 77GHz. 2019,	
500	Human posture recognition based on multi-channel SAR at 77GHz. 2019,  Paradox of Africal Renewable Energy Potentials and Quest towards Powering Africa. 2019,	
		1
500	Paradox of Africal Renewable Energy Potentials and Quest towards Powering Africa. 2019,  A New Structure-Based Coregistration Method for Near-Field Ground-Based MIMO Tomographic	1
500	Paradox of Africal Renewable Energy Potentials and Quest towards Powering Africa. 2019,  A New Structure-Based Coregistration Method for Near-Field Ground-Based MIMO Tomographic SAR. 2019,  Studying Key Principles for Design and Fabrication of Silicon Photonic-based Beamforming	
500 499 498	Paradox of Africa Renewable Energy Potentials and Quest towards Powering Africa. 2019,  A New Structure-Based Coregistration Method for Near-Field Ground-Based MIMO Tomographic SAR. 2019,  Studying Key Principles for Design and Fabrication of Silicon Photonic-based Beamforming Networks. 2019,	
500 499 498 497	Paradox of Africal Renewable Energy Potentials and Quest towards Powering Africa. 2019,  A New Structure-Based Coregistration Method for Near-Field Ground-Based MIMO Tomographic SAR. 2019,  Studying Key Principles for Design and Fabrication of Silicon Photonic-based Beamforming Networks. 2019,  User-preference-aware Private-preserving Average Consensus. 2019,  IEEE Transactions on Components, Packaging and Manufacturing Technology publication	
500 499 498 497 496	Paradox of Africa® Renewable Energy Potentials and Quest towards Powering Africa. 2019,  A New Structure-Based Coregistration Method for Near-Field Ground-Based MIMO Tomographic SAR. 2019,  Studying Key Principles for Design and Fabrication of Silicon Photonic-based Beamforming Networks. 2019,  User-preference-aware Private-preserving Average Consensus. 2019,  IEEE Transactions on Components, Packaging and Manufacturing Technology publication information. 2019, 9, C2-C2  Optimal Sizing and Locations of DG Sources in Distribution Systems: A Review of Different	1

492	Biofuels, Water Footprints, and Green Perspectives. <b>2019</b> , 1-9	2
491	Program Committee. <b>2019</b> ,	
490	Combining Program Analysis and Statistical Language Model for Code Statement Completion. <b>2019</b>	4
489	Table of Contents. 2019,	
488	Reliability of Substrate Embedded Rectifiers for High Voltage Applications. 2019,	
487	A prediction method for power transformer state parameters based on feature attention mechanism. <b>2019</b> ,	
486	Invited Talk Abstracts. <b>2019</b> ,	
485	Advanced Intersection over Union Loss for Visual Tracking. 2019,	2
484	Study on Organic Redox Flow Battery Mechanism using TEMPO and FMN-Na Solutions. <b>2019</b> , 19, 96-100	
483	Single Image 3D Vehicle Pose Estimation for Augmented Reality. <b>2019</b> ,	1
482	Research on Improving the Operation Stability of Wind Farms Connected to Power Grid by Using VSC-HVDC Containing SMES. <b>2019</b> ,	0
481	. 2019,	O
480	New Silk Way: Effective Management of Container Transportations in the Conditions of Uncertainties. <b>2019</b> ,	1
479	. 2019,	1
478	Active Electronically-Controlled Circulator Based on Mem-OTAs. 2019,	
477	Stability Analysis and Dynamic Quantizer for Controller Encryption. 2019,	6
476	Security enhancement for touch panel based user authentication on smartphones. 2019,	2
475	Dilated-Gated Convolutional Neural Network with A New Loss Function on Sound Event Detection. <b>2019</b> ,	1

High frequency wideband permittivity measurements of dielectric liquids using a new stripline structure technique. **2019**,

473	Experiments with mmWave Automotive Radar Test-bed. 2019,	16
472	Thai-English and English-Thai Translation Performance of Transformer Machine Translation. 2019,	О
471	. 2019,	1
470	Hybrid Storage System Associated with a Grid-Connected Wind Generator. 2019,	
469	Research on Credibility of the Dynamic Simulation of Power Grid Frequency Regulation based on the Hybrid System Model. <b>2019</b> ,	
468	A New 2-Scroll Chaos Plant with Multistability and its Circuit Realization. 2019,	
467	Stability Analysis for A Class of Nonlinear Systems via State-dependent Lyapunov Functions. <b>2019</b> ,	
466	Model Predictive Control-Based Coordinated Control Algorithm with a Hybrid Energy Storage System to Smooth Wind Power Fluctuations. <b>2019</b> , 12, 4591	3
465	PoseFix: Model-Agnostic General Human Pose Refinement Network. <b>2019</b> ,	49
464	Integrated Renewable PV System through Artificial Neural Network Based MPPT and Water Cooling Treatment. <b>2019</b> ,	
463	Profiling Social Media Users, a Content-Based Data Mining Technique for Twitter Users. <b>2019</b> ,	2
462	Extension for Short Wavelength Detection Limit of Filter-Free Fluorescence Sensor by using Indium Tin Oxide Photogate. <b>2019</b> ,	1
461	A Real Scale Prototype to Smooth Short-Time Power Fluctuations of Marine Renewable Energy Sources -Uliss.EMR Project <b>2019</b> ,	1
460	Composite Fractional Order Sliding Mode Control of Permanent Magnet Synchronous Motor Based on Disturbance Observer. <b>2019</b> ,	1
459	Advanced smart grid power distribution system for More Electric Aircraft application. 2019,	1
458	A New Parallel Detection-Recognition Approach for End-to-End Scene Text Extraction. <b>2019</b> ,	6
457	Preliminary study of the relation between the content of cadmium and the hyperspectral signature of organic cocoa beans. <b>2019</b> ,	O

Modelling of battery usage with wind turbines to avoid power deviation penalties. 2019, 456 The study of Sn-45Bi-2.6Zn alloy before and after thermal aging. 2019, 455 An Ensemble of Triplet Neural Networks for Differential Diagnostics of Lung Cancer. 2019, 454  $\circ$ Scaling up Prediction of Psychosis by Natural Language Processing. 2019, 453 Oxide Removal for Low-Temperature Metal Thermo-Compression Wafer Bonding. 2019, 452 1 . 2019, 451 13 . 2019, 450 Simultaneous Integration of Renewable Power Generation and Battery Energy Storage in 449 Distribution Networks. 2019, Research on Power Dispatching Modes Based on the Thermal Performance of District Heating 448 System. 2019, 118, 02026 Energetic Macroscopic Representation and Inversion-Based Control of a Grid-Connected MCT 447 Power Generation System with Super-Capacitor Based Energy Storage Unit in Ushant Island. 2019, Bridging between load-flow and Kuramoto-like power grid models: A flexible approach to 446 7 integrating electrical storage units. 2019, 29, 103151 Active distribution network planning considering shared demand management. 2019, 37, 8015-8028 445 Hydrogen Energy Storage. 2019, 444 Boosting the hydrogen evolution activity of a Co-N-C electrocatalyst by codoping with Al.. 2019, 9, 33997-34003 443 A preliminary techno-economic comparison between a grid-connected and non-grid connected 442 4 offshore floating wind farm. 2019, Water/Ethanol and 13X Zeolite Pairs for Long-Term Thermal Energy Storage at Ambient Pressure. 441 2019, 7, Thermal decomposition mechanism and kinetics of Pd/SiO2 nanocomposites in air atmosphere. 440 2 2019, 135, 2733-2745 Review on the optimal placement, sizing and control of an energy storage system in the 439 110 distribution network. 2019, 21, 489-504

438	A compressed air energy storage system with variable pressure ratio and its operation control. <b>2019</b> , 169, 881-894	23
437	Comparative Review of Energy Storage Systems, Their Roles, and Impacts on Future Power Systems. <b>2019</b> , 7, 4555-4585	146
436	Analysis of energy storage systems to exploit wind energy curtailment in Crete. <i>Renewable and Sustainable Energy Reviews</i> , <b>2019</b> , 103, 122-139	31
435	Multiobjective optimization of a photovoltaic system generation with hydraulic storage in remote areas. <b>2019</b> , 38, 13095	1
434	An organic flow desalination battery. <b>2019</b> , 20, 203-207	30
433	An updated review of energy storage systems: Classification and applications in distributed generation power systems incorporating renewable energy resources. <b>2019</b> , 43, 6171-6210	80
432	Angle-shaped triboelectric nanogenerator for harvesting environmental wind energy. <b>2019</b> , 56, 269-276	84
431	Prefeasibility techno-economic assessment of a hybrid power plant with photovoltaic, fuel cell and Compressed Air Energy Storage (CAES). <b>2019</b> , 168, 409-424	38
430	Numerical method for wind energy analysis in WTG siting. <b>2019</b> , 136, 202-210	3
429	Review on Energy Storage Systems Control Methods in Microgrids. <b>2019</b> , 107, 745-757	104
428	A review of fault ride through of PV and wind renewable energies in grid codes. <b>2019</b> , 43, 1342-1356	50
427	A bipolar verdazyl radical for a symmetric all-organic redox flow-type battery. <b>2019</b> , 34, 52-56	36
426	Review of MXenes as new nanomaterials for energy storage/delivery and selected environmental applications. <b>2019</b> , 12, 471-487	248
425	Optimal sizing of hybrid fuel cell-supercapacitor storage system for off-grid renewable applications. <b>2019</b> , 166, 530-540	96
424	The role of hydrogen and fuel cells in the global energy system. <b>2019</b> , 12, 463-491	1196
423	Natural gas displacement by wind curtailment utilization in combined-cycle power plants. <b>2019</b> , 168, 477-491	10
422	Chemical Energy Storage. <b>2019</b> , 177-227	12
421	Comprehensive assessment for battery energy storage systems based on fuzzy-MCDM considering risk preferences. <b>2019</b> , 168, 450-461	70

## (2020-2019)

420	Egg shell membrane template stabilises formation of ENiMoO4 nanowires and enhances hybrid supercapacitor behaviour. <b>2019</b> , 236, 64-68	22
419	Implications of inherent inhomogeneities in thin carbon fiber-based gas diffusion layers: A comparative modeling study. <b>2019</b> , 295, 861-874	31
418	Provision of ancillary services by renewable hybrid generation in low frequency AC systems to the grid. <b>2019</b> , 105, 775-784	5
417	Control of Flywheel Energy Storage Systems in the Presence of Uncertainties. <b>2019</b> , 10, 36-45	49
416	Super-twisting sliding mode control approach with its application to wind turbine systems. <b>2019</b> , 10, 211-229	8
415	Metal Organic framework derived carbon for ultrahigh power and long cyclic life aqueous Zn ion capacitor. <b>2020</b> , 2, 159-163	19
414	Hybrid pumped hydro and battery storage for renewable energy based power supply system. <b>2020</b> , 257, 114026	64
413	Assessment of a Compressed Air Energy Storage System using gas pipelines as storage devices in Chile. <b>2020</b> , 147, 1251-1265	7
412	Hierarchical Active Power Control of DFIG-Based Wind Farm With Distributed Energy Storage Systems Based on ADMM. <b>2020</b> , 11, 1528-1538	12
411	Advanced scalable zeolite Ibns-sievingItomposite membranes with high selectivity. <b>2020</b> , 595, 117569	16
410	Consumers, prosumers, and the smart grids. <b>2020</b> , 191-238	1
409	Decarbonising electricity systems in major cities through renewable cooperation 🗚 case study of Beijing and Zhangjiakou. <b>2020</b> , 190, 116444	13
408	A review of energy storage types, applications and recent developments. 2020, 27, 101047	361
407	Energy management and control strategy for a DFIG wind turbine/fuel cell hybrid system with super capacitor storage system. <b>2020</b> , 192, 116518	37
406	Principles of solar energy storage. <b>2020</b> , 2, e96	6
405	A dynamic wavelet-based robust wind power smoothing approach using hybrid energy storage system. <b>2020</b> , 116, 105579	26
404	Thin-film composite membrane breaking the trade-off between conductivity and selectivity for a flow battery. <b>2020</b> , 11, 13	67
403	Reliability evaluation of an aggregate battery energy storage system in microgrids under dynamic operation. <b>2020</b> , 118, 105786	16

402	A new measure of wind power variability with implications for the optimal sizing of standalone wind power systems. <b>2020</b> , 150, 538-549	4
401	A grid-connected variable-speed wind generator driving a fuzzy-controlled PMSG and associated to a flywheel energy storage system. <b>2020</b> , 180, 106137	20
400	Distributionally Robust Co-Optimization of Energy and Reserve for Combined Distribution Networks of Power and District Heating. <b>2020</b> , 35, 2388-2398	28
399	Molecular Design of Fused-Ring Phenazine Derivatives for Long-Cycling Alkaline Redox Flow Batteries. <b>2020</b> , 5, 411-417	67
398	Predictive energy management for a wind turbine with hybrid energy storage system. <b>2020</b> , 44, 2316-2331	8
397	Numerical investigation into the energy extraction characteristics of 3D self-induced oscillating foil. <b>2020</b> , 148, 60-71	6
396	Techno-economic analysis of an integrated liquid air and thermochemical energy storage system. <b>2020</b> , 205, 112341	47
395	Semiconductor Material ZnO-Coated P2-Type Na2/3Ni1/3Mn2/3O2 Cathode Materials for Sodium-Ion Batteries with Superior Electrochemical Performance. <b>2020</b> , 124, 1780-1787	17
394	Exergoeconomic assessment with reliability consideration of a green cogeneration system based on compressed air energy storage (CAES). <b>2020</b> , 204, 112320	78
393	Mapping of performance of pumped thermal energy storage (Carnot battery) using waste heat recovery. <b>2020</b> , 211, 118963	15
392	A review of optimal control methods for energy storage systems - energy trading, energy balancing and electric vehicles. <b>2020</b> , 32, 101787	9
391	Application of multi-step bridge-type fault current limiter for fault ride-through capability enhancement of permanent magnet synchronous generator-based wind turbines. <b>2020</b> , 30, e12611	13
390	Uses, Cost-Benefit Analysis, and Markets of Energy Storage Systems for Electric Grid Applications. <b>2020</b> , 32, 101731	16
389	Investigation of electrochemical performance of a new nanocomposite: CuCo2S4/Polyaniline on carbon cloth. <b>2020</b> , 32, 101694	7
388	Hydrogen production by water electrolysis and off-grid solar PV. <b>2020</b> , 46, 29038-29038	19
387	Review of energy storage services, applications, limitations, and benefits. <b>2020</b> , 6, 288-306	85
386	Power System Stability with Power-Electronic Converter Interfaced Renewable Power Generation: Present Issues and Future Trends. <b>2020</b> , 13, 3441	18
385	A Comprehensive Review on Energy Storage Systems: Types, Comparison, Current Scenario, Applications, Barriers, and Potential Solutions, Policies, and Future Prospects. <b>2020</b> , 13, 3651	47

## (2020-2020)

384	<b>2020</b> , 13, 5847	24
383	A multi-timescale cold storage system within energy flexible buildings for power balance management of smart grids. <b>2020</b> , 161, 626-634	14
382	Analysis on Peak-shaving Energy Efficiency of Thermal Power Plant with High Temperature Thermal Energy Storage. <b>2020</b> , 474, 052009	1
381	Assessment of energy storage technologies: A review. <b>2020</b> , 223, 113295	98
380	Optimization of battery and wind technologies: Case of power deviation penalties. <b>2020</b> , 63, 101322	1
379	Optimal Sizing of Energy Storage with Embedded Wind Power Generation. 2020,	1
378	Design of water pumped storage systems: A sensitivity and scenario analysis for island microgrids. <b>2020</b> , 42, 100847	2
377	Mitigating Power Fluctuations for Energy Storage in Wind Energy Conversion System Using Supercapacitors. <b>2020</b> , 8, 189747-189760	6
376	Hybrid fuzzy decision making approach for wind-powered pumped storage power plant site selection: A case study. <b>2020</b> , 42, 100838	10
375	Performance Analysis of a Dq Power Flow-Based Energy Storage Control System for Microgrid Applications. <b>2020</b> , 8, 178706-178721	9
374	Primary Frequency Response of Microgrid Using Doubly Fed Induction Generator With Finite Control Set Model Predictive Control Plus Droop Control and Storage System. <b>2020</b> , 8, 189298-189312	6
373	Seeing is Believing: In Situ/Operando Optical Microscopy for Probing Electrochemical Energy Systems. <b>2020</b> , 5, 2000555	12
372	Modified switch type fault current limiter for low-voltage ride-through enhancement and reactive power support of DFIG-WT under grid faults. <b>2020</b> , 14, 1481-1490	3
371	Modeling Power Flow within a Microgrid for Energy Storage Sizing. <b>2020</b> ,	1
370	A Review of Energy Storage Participation for Ancillary Services in a Microgrid Environment. <b>2020</b> , 5, 63	8
369	A Review of Energy Storage Technologies[Application Potentials in Renewable Energy Sources Grid Integration. <b>2020</b> , 12, 10511	38
368	A Comprehensive Review of Recent Advances in Smart Grids: A Sustainable Future with Renewable Energy Resources. <b>2020</b> , 13, 6269	36
367	Theoretical investigation of a closed liquid CO2 energy storage system. <b>2020</b> , 755, 012022	

Probabilistic Forecasting Based Adaptive Power Smoothing Framework for Hybrid Wind-Storage 366 Systems. 2020, Computationally Efficient Modeling of DC-DC Converters for PV Applications. 2020, 13, 5100 365 Zinc-Air Battery-Based Desalination Device. 2020, 12, 25728-25735 364 13 Stochastic very short-term economic dispatch for wind power operation using flexible ramp 363 6 reserve. 2020, 30, e12454 A Comprehensive Study on Methods and Materials for Photocatalytic Water Splitting and Hydrogen 362 21 Production as a Renewable Energy Resource. 2020, 30, 3837-3861 A review of energy storage technologies for large scale photovoltaic power plants. 2020, 274, 115213 361 57 Modeling and Energy Efficiency Analysis of Thermal Power Plant with High Temperature Thermal 360 2 Energy Storage (HTTES). **2020**, 29, 1025-1035 Anticipatory AGC control strategy based on wind power variogram characteristic. 2020, 14, 1124-1133 359 Microeconomics of electrical energy storage in a fully renewable electricity system. 2020, 206, 171-180 358 9 Increasing Compressed Gas Energy Storage Density Using CO2N2 Gas Mixture. 2020, 13, 2431 357 . 2020, 356 2 Compressed-Air Energy Storage. 2020, 279-312 355 Current Technology of Supercapacitors: A Review. 2020, 49, 3520-3532 354 37 Using hydrogen and ammonia for renewable energy storage: A geographically comprehensive 353 45 techno-economic study. 2020, 136, 106785 Flexible demand and supply as enablers of variable energy integration. 2020, 258, 120574 352 3 Evaluation on the Autoconfigured Multipulse AC/DC Rectifiers and Their Application in More 16 351 Electric Aircrafts. 2020, 6, 1721-1739 Integration of Clean and Sustainable Energy Resources and Storage in Multi-Generation Systems. 350 O 2020, Techno-environmental analysis of battery storage for grid level energy services. Renewable and 16.2 18 Sustainable Energy Reviews, 2020, 131, 110018

## (2020-2020)

348	Wake management based life enhancement of battery energy storage system for hybrid wind farms. <i>Renewable and Sustainable Energy Reviews</i> , <b>2020</b> , 130, 109912	16.2	19
347	An Optimal Model to Meet the Hourly Peak Demands of a Specific Region With Solar, Wind, and Grid Supplies. <b>2020</b> , 8, 13179-13194		3
346	A Novel CDR-Based Low-Cost Time-Interleaved-ADC Timing Calibration. 2020, 38, 1777-1784		О
345	Modeling of Energy Storage Systems for Power System Operation and Planning. <b>2020</b> , 35-55		
344	Robust planning of distributed battery energy storage systems in flexible smart distribution networks: A comprehensive study. <i>Renewable and Sustainable Energy Reviews</i> , <b>2020</b> , 123, 109739	16.2	39
343	Innovative measures for integrating renewable energy in the German medium-voltage grids. <b>2020</b> , 6, 336-342		6
342	Ellipsoidal Luneburg Lens Binary Array for Wide-Angle Scanning. <b>2020</b> , 68, 5702-5707		9
341	Introduction. <b>2020</b> , 1-34		
340	How can power-to-ammonia be robust? Optimization of an ammonia synthesis plant powered by a wind turbine considering operational uncertainties. <b>2020</b> , 266, 117049		24
339	Integration of High Penetrations of Intermittent Renewable Generation in Future Electricity Networks Using Storage. <b>2020</b> , 649-668		
338	Survey of Smart Grid Concepts and Technological Demonstrations Worldwide Emphasizing on the Oman Perspective. <b>2020</b> , 3, 5		28
337	Materials and nano-structural processes for use in solid oxide fuel cells: a review. <b>2020</b> , 57, 135-151		13
336	Improved Temperature Resilience and Device Performance of Negative Capacitance Reconfigurable Field Effect Transistors. <b>2020</b> , 67, 738-744		3
335	Limitations, challenges, and solution approaches in grid-connected renewable energy systems. <b>2020</b> , 44, 4132-4162		37
334	Review and Recent Advances in Mass Transfer in Positive Electrodes of Aprotic Li <b>D</b> 2 Batteries. <b>2020</b> , 3, 2258-2270		14
333	Distributed Optimal Observer Design of Networked Systems via Adaptive Critic Design. <b>2020</b> , 1-10		1
332	An Energy-Maximising Linear Time Invariant Controller (LiTe-Con) for Wave Energy Devices. <b>2020</b> , 11, 2713-2721		12
331	Tactile Perception of Virtual Edges and Gratings Displayed by Friction Modulation via Ultrasonic Actuation. <b>2020</b> , 13, 368-379		5

330	A Method for Analyzing the Activity of Cold Wallets and Identifying Abandoned Cryptocurrency Wallets. <b>2020</b> ,	1
329	The New Structure and Analytical Model of a High-Voltage Interconnection Shielding Structure With High-k Dielectric Pillar. <b>2020</b> , 67, 1745-1750	4
328	Omnidirectional Triboelectric Nanogenerator Operated by Weak Wind Towards a Self-Powered Anemoscope. <b>2020</b> , 11,	13
327	Energy storage usages: Engineering reactions, economic-technological values for electric vehicles technological outlook. <b>2020</b> , 30, e12422	8
326	A comparative review on power conversion topologies and energy storage system for electric vehicles. <b>2020</b> , 44, 7863-7885	24
325	Optimal sizing of distributed energy resources and battery energy storage system in planning of islanded micro-grids based on life cycle cost. <b>2021</b> , 12, 637-656	1
324	Compressed air energy storage systems: Components and operating parameters 🖪 review. <b>2021</b> , 34, 102000	44
323	2D hierarchical nickel cobalt sulfides coupled with ultrathin titanium carbide (MXene) nanosheets for hybrid supercapacitors. <b>2021</b> , 482, 228961	26
322	Neighborhood-level coordination and negotiation techniques for managing demand-side flexibility in residential microgrids. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 135, 110248	19
321	Critical review of energy storage systems. <b>2021</b> , 214, 118987	116
321	Critical review of energy storage systems. <b>2021</b> , 214, 118987  Analysis of the wind energy market in Denmark and future interactions with an emerging hydrogen market. <b>2021</b> , 46, 146-156	116 9
	Analysis of the wind energy market in Denmark and future interactions with an emerging hydrogen	
320	Analysis of the wind energy market in Denmark and future interactions with an emerging hydrogen market. <b>2021</b> , 46, 146-156  Advanced poly(vinyl pyrrolidone) decorated chlorinated polyvinyl chloride membrane with low area	9
320 319	Analysis of the wind energy market in Denmark and future interactions with an emerging hydrogen market. 2021, 46, 146-156  Advanced poly(vinyl pyrrolidone) decorated chlorinated polyvinyl chloride membrane with low area resistance for vanadium flow battery. 2021, 620, 118947	9 5 13
320 319 318	Analysis of the wind energy market in Denmark and future interactions with an emerging hydrogen market. 2021, 46, 146-156  Advanced poly(vinyl pyrrolidone) decorated chlorinated polyvinyl chloride membrane with low area resistance for vanadium flow battery. 2021, 620, 118947  Virtual power plants for a sustainable urban future. 2021, 65, 102640  Evaluating the utility of passive thermal storage as an energy storage system on the Australian	9 5 13
320 319 318 317	Analysis of the wind energy market in Denmark and future interactions with an emerging hydrogen market. 2021, 46, 146-156  Advanced poly(vinyl pyrrolidone) decorated chlorinated polyvinyl chloride membrane with low area resistance for vanadium flow battery. 2021, 620, 118947  Virtual power plants for a sustainable urban future. 2021, 65, 102640  Evaluating the utility of passive thermal storage as an energy storage system on the Australian energy market. Renewable and Sustainable Energy Reviews, 2021, 137, 110615  16.2  Interval reference point technique for sustainable industrial processs election under uncertainties.	9 5 13 5
320 319 318 317 316	Analysis of the wind energy market in Denmark and future interactions with an emerging hydrogen market. 2021, 46, 146-156  Advanced poly(vinyl pyrrolidone) decorated chlorinated polyvinyl chloride membrane with low area resistance for vanadium flow battery. 2021, 620, 118947  Virtual power plants for a sustainable urban future. 2021, 65, 102640  Evaluating the utility of passive thermal storage as an energy storage system on the Australian energy market. Renewable and Sustainable Energy Reviews, 2021, 137, 110615  Interval reference point technique for sustainable industrial processs election under uncertainties. 2021, 27, 354-371	9 5 13 5

312	Flexibility categorization, sources, capabilities and technologies for energy-flexible and grid-responsive buildings: State-of-the-art and future perspective. <b>2021</b> , 219, 119598	20
311	Sensorless Maximum Power Control of a Stand-Alone Squirrel-Cage Induction Generator Driven by a Variable-Speed Wind Turbine. <b>2021</b> , 16, 333-347	3
310	A proposal for analysis of operating reserve requirements considering renewable sources on supergrids. <b>2021</b> , 103, 529-540	2
309	Strategies to improve electrocatalytic and photocatalytic performance of two-dimensional materials for hydrogen evolution reaction. <b>2021</b> , 42, 511-556	57
308	Review on methodological and normative advances in assessment and estimation of wind energy. <b>2021</b> , 32, 25-61	1
307	Energy Storage Management of Maritime Grids. <b>2021</b> , 125-148	O
306	Bibliography. <b>2021</b> , 281-300	
305	Overview of Frequency-Control Technologies for a VSC-HVDC-Integrated Wind Farm. <b>2021</b> , 9, 112893-112921	7
304	Mathematical Formulation of Management Targets. 2021, 47-75	
303	Utility-Scale Energy Storage Systems: A Comprehensive Review of Their Applications, Challenges, and Future Directions. <b>2021</b> , 0-0	3
302	Energy storage fundamentals and components. <b>2021</b> , 23-39	1
301	Energy consumption and environmental consequences. <b>2021</b> , 1-55	
300	Real-Time Self-Dispatch of a Remote Wind-Storage Integrated Power Plant without Predictions: Explicit Policy and Performance Guarantee. <b>2021</b> , 1-1	2
299	The Role of Energy Storage Systems in Microgrids Operation. <b>2021</b> , 127-149	
298	Energy conversion systems and Energy storage systems. <b>2021</b> , 155-179	0
297	Phase Changing Materials Based Super Capacitors. <b>2021</b> ,	
296	Application of machine learning algorithms in wind power: a review. 1-22	4
295	Standardizing a unique renewable energy supply chain: the SURESC Model. 9, 1391	

294	The development of techno-economic models for the assessment of utility-scale electro-chemical battery storage systems. <b>2021</b> , 283, 116343	11
293	Hybrid Triboelectric Nanogenerators: From Energy Complementation to Integration. <b>2021</b> , 2021, 9143762	10
292	Optimal valuation of wind energy projects co-located with battery storage. <b>2021</b> , 283, 116247	6
291	The Application of Polymer Nanocomposites in Energy Storage Devices. <b>2021</b> , 157-187	1
<b>2</b> 90	Techno-Economic Analysis of Hybrid Renewable Energy System with Energy Storage for Rural Electrification. <b>2021</b> , 63-96	O
289	Experimental Investigation of a Standalone Wind Energy System with a Battery-Assisted Quasi-Z-Source Inverter. <b>2021</b> , 14, 1665	1
288	Generation of Alternative Battery Allocation Proposals in Distribution Systems by the Optimization of Different Economic Metrics within a Mathematical Model. <b>2021</b> , 14, 1726	2
287	Virtual Inertia Control Methods in Islanded Microgrids. <b>2021</b> , 14, 1562	9
286	The initiation and progression of damage in composite overwrapped pressure vessels subjected to contact loads. <b>2021</b> , 40, 594-605	2
285	Techno-Economic Analysis of On-Site Energy Storage Units to Mitigate Wind Energy Curtailment: A Case Study in Scotland. <b>2021</b> , 14, 1691	8
284	A Complexing Agent to Enable a Wide-Temperature Range Bromine-Based Flow Battery for Stationary Energy Storage. <b>2021</b> , 31, 2100133	7
283	Conventional generation emulation for power grids with a high penetration of wind power. <b>2021</b> , 5, 93-103	1
282	Energy Storage for Energy Security and Reliability through Renewable Energy Technologies: A New Paradigm for Energy Policies in Turkey and Pakistan. <b>2021</b> , 13, 2823	2
281	A Proposed Strategy to Solve the ?Intermittency Problem in Renewable Energy Systems ?Using A Hybrid Energy ?Storage System. <b>2021</b> , 16, 41-51	2
280	Locating Shunt Currents in a Multistack System of All-Vanadium Redox Flow Batteries. <b>2021</b> , 9, 4648-4659	4
279	Review on recent advances of zinc substituted cobalt ferrite nanoparticles: Synthesis characterization and diverse applications. <b>2021</b> , 47, 10512-10535	12
278	Energy management of controllable loads in multi-area power systems with wind power penetration based on new supervisor fuzzy nonlinear sliding mode control. <b>2021</b> , 221, 119867	30
277	Analytical method for estimating leakage of reservoir basins for pumped storage power stations. <b>2021</b> , 80, 5145-5158	1

## (2021-2021)

276	A High Sensitivity Self-Powered Wind Speed Sensor Based on Triboelectric Nanogenerators (TENGs). <b>2021</b> , 21,	4
275	N-alkyl-carboxylate-functionalized anthraquinone for long-cycling aqueous redox flow batteries. <b>2021</b> , 36, 417-426	7
274	Operating Principles, Performance and Technology Readiness Level of Reversible Solid Oxide Cells. <b>2021</b> , 13, 4777	4
273	A pathway towards sustainable development of small capacity horizontal axis wind turbines [] Identification of influencing design parameters & their role on performance analysis. <b>2021</b> , 44, 101019	3
272	Perspective on integration of concentrated solar power plants. <b>2021</b> , 16, 1098-1125	2
271	A Simulation Model for Providing Analysis of Wind Farms Frequency and Voltage Regulation Services in an Electrical Power System. <b>2021</b> , 14, 2250	2
270	Textile Triboelectric Nanogenerators Simultaneously Harvesting Multiple "High-Entropy" Kinetic Energies. <b>2021</b> , 13, 20145-20152	20
269	In situ growth of ZIF67 at the edge of nanosheet transformed into yolk-shell CoSe2 for high efficiency urea electrolysis. <b>2021</b> , 491, 229592	10
268	Salt Cavern Exergy Storage Capacity Potential of UK Massively Bedded Halites, Using Compressed Air Energy Storage (CAES). <b>2021</b> , 11, 4728	4
267	Comparative environmental life cycle assessment of alternative osmotic and mixing dilution desalination system configurations. <b>2021</b> , 504, 114963	8
266	Long-distance renewable hydrogen transmission via cables and pipelines. <b>2021</b> , 46, 18699-18718	15
265	A Computational Approach to Sequential Decision Optimization in Energy Storage and Trading. <b>2021</b> , 14, 235	
264	Reversible solid-oxide cell stack based power-to-x-to-power systems: Economic potential evaluated via plant capital-cost target. <b>2021</b> , 290, 116700	5
263	Modelling and Control of Flywheels Integrated in Wind Turbine Generators. 2021,	1
262	Selection parameters and synthesis of multi-input converters for electric vehicles: An overview.  Renewable and Sustainable Energy Reviews, 2021, 141, 110804	8
261	Graphene-Based Electrodes in a Vanadium Redox Flow Battery Produced by Rapid Low-Pressure Combined Gas Plasma Treatments. <b>2021</b> , 33, 4106-4121	7
260	Isothermal compressed wind energy storage using abandoned oil/gas wells or coal mines. <b>2021</b> , 292, 116867	5
259	Greenhouse Gas Emissions of Stationary Battery Installations in Two Renewable Energy Projects. <b>2021</b> , 13, 6330	2

258	Prospects of renewable energy as a non-rivalry energy alternative in Libya. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 143, 110852	16.2	6
257	A critical review of energy storage technologies for microgrids. 1		1
256	Dynamic Cost-Optimal Assessment of Complementary Diurnal Electricity Storage Capacity in High PV Penetration Grid. <b>2021</b> , 14, 4496		1
255	Power Quality in Renewable Energy Microgrids Applications with Energy Storage Technologies: Issues, Challenges and Mitigations.		
254	A review of supercapacitors modeling, SoH, and SoE estimation methods: Issues and challenges. <b>2021</b> , 45, 18424		7
253	Empowering smart grid: A comprehensive review of energy storage technology and application with renewable energy integration. <b>2021</b> , 39, 102591		44
252	Long-term stable operation control method of dual-battery energy storage system for smoothing wind power fluctuations. <b>2021</b> , 129, 106878		8
251	Safe Operation Conditions of Electrical Power System Considering Power Balanceability among Power Generators, Loads, and Storage Devices. <b>2021</b> , 14, 4460		1
250	Review of Energy Storage and Energy Management System Control Strategies in Microgrids. <b>2021</b> , 14, 4929		10
249	References. <b>2021</b> , 177-201		
248	Experimental and Numerical Analyses of Thermal Storage Tile-Bricks for Efficient Thermal Management of Buildings. <b>2021</b> , 11, 357		O
247	A Software Tool for the Design and Operational Analysis of Pressure Vessels used in Offshore Hydro-pneumatic Energy Storage. <b>2021</b> , 40, 102750		1
246	Global Overview of Large-Scale Photovoltaic System and Its Electrical Energy Storage Implementation. <b>2022</b> , 143-154		O
245	Techno-economic analysis of lithium-ion and lead-acid batteries in stationary energy storage application. <b>2021</b> , 40, 102748		28
244	Pricing electricity in constrained networks dominated by stochastic renewable generation and electric energy storage. <b>2021</b> , 197, 107169		4
243	Comparative sustainability efficiency measurement of energy storages under uncertainty: An innovative framework based on interval SBM model. <b>2021</b> , 40, 102808		3
242	Modeling and Control of Flywheel-Integrated Generators in Split-Shaft Wind Turbines. 2022, 144,		5
241	Recent progress and strategies toward high performance zinc-organic batteries. <b>2021</b> , 63, 87-87		5

240	Pressure-Based Energy Storage in Natural Gas Transmission Networks: Proof-of-Concept Analysis. <b>2022</b> , 144,	1
239	Low power energy harvesting systems: State of the art and future challenges. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 147, 111230	10
238	Investigation on the ageing mechanism for a lithium-ion cell under accelerated tests: The case of primary frequency regulation service. <b>2021</b> , 41, 102904	2
237	Inclusion of Energy Storage System with Renewable Energy Resources in Distribution Networks. <b>2021</b> , 281-327	1
236	Performance enhancement of graphene/GO/rGO based supercapacitors: A comparative review. <b>2021</b> , 28, 102685	4
235	Thermodynamic optimization with multi objectives and parameters for liquid air energy storage system based on the particle swarm optimization (PSO). <b>2021</b> , 41, 102878	5
234	A comprehensive review on energy storage in hybrid electric vehicle. <b>2021</b> , 8, 621-621	10
233	Numerical evaluation of a Carnot battery system comprising a chemical heat storage/pump and a Brayton cycle. <b>2021</b> , 41, 102955	4
232	Power generation by contact and the potential applications in new energy. <b>2021</b> , 87, 106167	1
231	Experimental Study on Effects of Adjustable Vaned Diffusers on Impeller Backside Cavity of Centrifugal Compressor in CAES. <b>2021</b> , 14, 6187	2
230	A novel algorithm based on the combination of AC-OPF and GA for the optimal sizing and location of DERs into distribution networks. <b>2021</b> , 27, 100497	4
229	Intermetallic Compounds: Liquid-Phase Synthesis and Electrocatalytic Applications. <b>2021</b> , 27, 16564-16580	2
228	Lithium-Ion vs. Redox Flow Batteries 🖟 Techno-Economic Comparative Analysis for Isolated Microgrid System. <b>2021</b> , 177-197	
227	Introduction to Energy Storage Systems. <b>2021</b> , 1-31	
226	Towards next generation virtual power plant: Technology review and frameworks. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 150, 111358	21
225	The development of a techno-economic model for the assessment of the cost of flywheel energy storage systems for utility-scale stationary applications. <b>2021</b> , 47, 101382	3
224	Recent advances in vanadium-based materials for aqueous metal ion batteries: Design of morphology and crystal structure, evolution of mechanisms and electrochemical performance. <b>2021</b> , 41, 152-182	4
223	An organic bifunctional redox active material for symmetric aqueous redox flow battery. <b>2021</b> , 89, 106422	5

222	Electric vehicles: To what extent are environmentally friendly and cost effective? Comparative study by european countries. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 151, 111548	16.2	10
221	Development in energy storage system for electric transportation: A comprehensive review. <b>2021</b> , 43, 103153		11
220	Joint investment of community energy storage systems in distribution networks using modified Nash bargaining theory. <b>2021</b> , 301, 117475		2
219	A robust model for aggregated bidding of energy storages and wind resources in the joint energy and reserve markets. <b>2022</b> , 238, 121735		4
218	A review of advances in multifunctional XTiO perovskite-type oxides as piezo-photocatalysts for environmental remediation and energy production. <b>2022</b> , 421, 126792		5
217	Advanced applications and current status of green nanotechnology in the environmental industry. <b>2022</b> , 303-340		
216	Materials Development for Energy Storage Applications. <b>2021</b> , 363-396		
215	Elements of Holistic Sustainability Assessments for Energy Systems. <b>2021</b> , 71-106		
214	Tuning the defects in MoS2/reduced graphene oxide 2D hybrid materials for optimizing battery performance. <b>2021</b> , 5, 4002-4014		2
213	Frequency Regulation of an Isolated Microgrid With Electric Vehicles and Energy Storage System Integration Using Adaptive and Model Predictive Controllers. <b>2021</b> , 9, 14958-14970		13
212	Optimisation of sodium-based energy storage cells using pre-sodiation: a perspective on the emerging field. <b>2021</b> , 14, 1380-1401		13
211	Services of Energy Storage Technologies in Renewable-Based Power Systems. <b>2019</b> , 53-64		2
<b>21</b> 0	Storage Options for Renewable Energy. <b>2014</b> , 1-6		2
209	Electrical Energy Storage for Buildings. <b>2018</b> , 1-29		1
208	Different Types of Energy Storage Systems: A Literature Survey. <b>2020</b> , 515-540		1
207	Practical development and challenges of garnet-structured Li7La3Zr2O12 electrolytes for all-solid-state lithium-ion batteries: A review. <b>2021</b> , 28, 1565-1583		6
206	Novel Smart Photocatalysis for Energy Production and Environment Applications. <b>2020</b> , 635-635		0
205	Microwave assisted sintering of Na-EAl2O3 in single mode cavities: Insights in the use of 2450 MHz frequency and preliminary experiments at 5800 MHz. <b>2020</b> , 46, 28767-28777		2

204	Technological paradigm-based approaches towards challenges and policy shifts for sustainable wind energy development. <b>2020</b> , 142, 111538	15
203	Analytical sizing methods for behind-the-meter battery storage. <b>2017</b> , 12, 297-304	21
202	Isothermal piston gas compression for compressed air energy storage. <b>2020</b> , 155, 119779	7
201	A deep learning-based forecasting model for renewable energy scenarios to guide sustainable energy policy: A case study of Korea. <i>Renewable and Sustainable Energy Reviews</i> , <b>2020</b> , 122, 109725	.2 60
200	New DTR line selection method in a power system comprising DTR, ESS, and RES for increasing RES integration and minimising load shedding. <b>2020</b> , 14, 6319-6329	5
199	Grid balancing with a large-scale electrolyser providing primary reserve. <b>2020</b> , 14, 3070-3078	8
198	An Economic Model Predictive Control Approach for Wind Power Smoothing and Tower Load Mitigation. <b>2020</b> , 142,	1
197	A Flexible Storage Model for Power Network Optimization. <b>2020</b> ,	3
196	Flexible Demand and Flexible Supply As Enablers of Variable Energy Integration.	4
195	Hybrid energy systems for static applications. <b>2016</b> ,	3
195 194	A Review of Renewable Energy Options, Applications, Facilitating Technologies and Recent Developments. <b>2020</b> , 4, em0138	3 6
	A Review of Renewable Energy Options, Applications, Facilitating Technologies and Recent	
194	A Review of Renewable Energy Options, Applications, Facilitating Technologies and Recent Developments. <b>2020</b> , 4, em0138	6
194	A Review of Renewable Energy Options, Applications, Facilitating Technologies and Recent Developments. 2020, 4, em0138  Innovations in energy storage. 2019, 21, 33-40  Generation expansion planning considering renewable energy integration and optimal unit	2
194 193 192	A Review of Renewable Energy Options, Applications, Facilitating Technologies and Recent Developments. 2020, 4, em0138  Innovations in energy storage. 2019, 21, 33-40  Generation expansion planning considering renewable energy integration and optimal unit commitment: A case study of Afghanistan. 2019, 7, 441-464  Significance of Storage on Solar Photovoltaic System Residential Load Case Study in Australia.	6 2 6
194 193 192	A Review of Renewable Energy Options, Applications, Facilitating Technologies and Recent Developments. 2020, 4, em0138  Innovations in energy storage. 2019, 21, 33-40  Generation expansion planning considering renewable energy integration and optimal unit commitment: A case study of Afghanistan. 2019, 7, 441-464  Significance of Storage on Solar Photovoltaic System Residential Load Case Study in Australia. 2013, 04, 167-180	6 2 6
194 193 192 191	A Review of Renewable Energy Options, Applications, Facilitating Technologies and Recent Developments. 2020, 4, em0138  Innovations in energy storage. 2019, 21, 33-40  Generation expansion planning considering renewable energy integration and optimal unit commitment: A case study of Afghanistan. 2019, 7, 441-464  Significance of Storage on Solar Photovoltaic System Residential Load Case Study in Australia. 2013, 04, 167-180  Retaining of Frequency in Micro-grid with Wind Turbine and Diesel Generator. 2018, 8, 3646-3651	6 2 6 12 9

186	Prediction-free Online Dispatch of Remote Wind-Storage Plant Considering Transmission Congestion. <b>2021</b> ,	
185	A Multi-Criteria Decision-Making Approach for Energy Storage Technology Selection Based on Demand. <b>2021</b> , 14, 6592	2
184	Spatial and temporal variability characteristics of offshore wind energy in the United Kingdom.	2
183	Materials development and prospective for protonic ceramic fuel cells.	3
182	Energy Storage: Applications and Advantages. <b>2013</b> , 77-108	1
181	Study on Regulation and Control of Active Wind Power Fluctuations. <b>2014</b> , 13, 2743-2748	
180	Storage in Dedicated Facilities. <b>2014</b> , 137-152	
179	A Research for Piezoelectric Energy Harvesters Based on Flammable Material. <b>2014</b> , 27, 863-865	
178	Introduction. <b>2017</b> , 1-10	
177	The Effect of Increased Transmission and Storage in an Interconnected Europe: An Application to France and Ireland.	
176	The Study of Transient Stability for a Mix of Wind and Thermal Power Transmission System. 2017,	
175	Wind Farm Fluctuation Suppression Using Energy Storage. <b>2018</b> , 207-217	
174	II Tip speriletkenlerde manyetik kald⊞ma kuvvetinin bir kar⊞a⊞mal⊞læhas⊞1-1	
173	Electrical Energy Storage for Buildings. <b>2018</b> , 1079-1107	
172	Pompaj depolamalEhibrid enerji sistemi optimizasyonu -TEkiye iEh vaka analizi. <b>2018</b> , 2018,	1
171	CHAPTER 2. High Temperature Co-electrolysis 🖪 Route to Syngas. <b>2019</b> , 42-99	
170	Assessment of energy storage technologies for case studies with increased renewable energy penetration. <b>2019</b> , 4, 001-014	1
169	Effect of Number of Blades on Generating Power In Wind Turbines. 2019,	1

168 SMART GRID INTEGRETED WITH HYBRID RENEWABLE ENERGY SYSTEMS.

167	Effect of magnetic field on the performance of a deep eutectic solvent-based redox flow battery from polarization perspective. <b>2020</b> , 194, 02027	1
166	Privacy Measures and Storage Technologies for Battery-Based Load Hiding - an Overview and Experimental Study. <b>2020</b> ,	2
165	A Study of the Energy Exchange within a Hybrid Energy Storage System and a Comparison of the Capacities, Lifetimes, and Costs of Different Systems. <b>2021</b> , 14, 7045	2
164	Load frequency control scheme design considering flexible disturbances. <b>2020</b> , 14, 4142-4149	
163	Standardizing a unique renewable energy supply chain: the SURESC Model. 9, 1391	
162	A metamaterial for wearable piezoelectric energy harvester. <b>2021</b> , 30, 015026	0
161	Effect of RadicalBolvent Interaction on Battery Performance in Benzophenone-Based Charge Storage Systems. <b>2020</b> , 167, 160526	Ο
160	Classification of Energy Storage Materials. <b>2022</b> , 8-14	
159	Battery energy storage systems and demand response applied to power system frequency control. <b>2022</b> , 136, 107680	7
158	Selection of Cost-Effective and Energy-Efficient Storages with Respect to Uncertain Nature of Renewable Energy Sources and Variations of Demands. <b>2020</b> , 15-27	7
157	Determining the Type and Size of Energy Storage Systems to Smooth the Power of Renewable Energy Resources. <b>2020</b> , 29-59	Ο
156	Hybrid Electric Energy Storage and Its Dynamic Performance. <b>2020</b> , 406-437	
155	Optimal control-based price strategies for smart fishery ports micro-grids. 2021,	
154	Review on energy storage systems for renewables [Global & Greece. 2020,	
153	Concept of Thermodynamic Studies in Electrochemical Storage and Conversion Systems. <b>2021</b> ,	
152	Pumped hydro storage for microgrid applications. <b>2022</b> , 323-354	O
151	Thermal performance analysis of the sorption heat storage system with packed bed based on a spatially resolved 2D model. <b>2022</b> , 49, 101753	O

150	A 3D macro-segment network model for vanadium redox flow battery with serpentine flow field. <b>2021</b> , 403, 139657	1
149	A review of flexibility options for high RES penetration in power systems (Focusing the Greek case. <b>2021</b> , 7, 33-50	O
148	Grid-connected lithium-ion battery energy storage system: A bibliometric analysis for emerging future directions. <b>2022</b> , 334, 130272	5
147	Supercapattery: Merging of battery-supercapacitor electrodes for hybrid energy storage devices. <b>2022</b> , 46, 103823	9
146	Review of energy storage system technologies integration to microgrid: Types, control strategies, issues, and future prospects. <b>2022</b> , 48, 103966	5
145	Optimizing Operations of Sodium Sulfur (NAS) Large-scale Battery Storage. <b>2020</b> ,	O
144	Multilevel Dispatch and Control for Grid Interconnected Wind-CAES Hybrid Systems. 2020,	
143	Management of an Electrical Storage System for Joint Energy Arbitrage and Improvement of Voltage Profile. <b>2020</b> ,	
142	Energy and Exergy Analysis of Isothermal Compressed Air Energy Storage System. 2021,	
141	Levelised Cost of Storage Comparison of Energy Storage Systems for Use in Primary Response Application.	
140	Economic control of hybrid energy systems composed of wind turbine and battery. 2021,	О
139	A Data-Driven Energy Storage System-Based Algorithm for Monitoring the Small-Signal Stability of Power Grids with Volatile Wind Power. <b>2021</b> ,	
138	One-step synthesis of nitrogen-doped graphene powders and application of them as high-performance symmetrical coin cell supercapacitors in different aqueous electrolyte.	1
137	Efficient hydrogen release from LiBH4 alcoholysis in methanol/ethylene glycol based solutions over a wide temperature range. <b>2022</b> , 164030	O
136	Modeling the Energy Storage Systems in the Power System Studies. <b>2022</b> , 497-517	
135	PERFORMANCE EVALUATION OF ADVANCED ENERGY STORAGE SYSTEMS: A REVIEW. 0958305X2210747	Ο
134	A Freestanding Chitin-Derived Hierarchical Nanocomposite for Developing Electrodes in Future Supercapacitor Industry <b>2022</b> , 14,	Ο
133	Consistency analysis and resistance network design for vanadium redox flow battery stacks with a cell-resolved stack model. 1-15	

132	Hybrid frequency control strategies based on hydro-power, wind, and energy storage systems: Application to 100% renewable scenarios.		
131	System Condition for Power Balancing between Fluctuating and Controllable Devices and Optimizing Storage Sizes. <b>2022</b> , 15, 1055		1
130	Primary Frequency Regulation Based on Deloaded Control, ANN, and 3D-Fuzzy Logic Controller for Hybrid Autonomous Microgrid. <b>2022</b> , 7, 1		1
129	Influence of an electrified interface on the entropy and energy of solvation of methanol oxidation intermediates on platinum(111) under explicit solvation <b>2022</b> ,		O
128	Surface-Modified Approach to Fabricate Nafion Membranes Covalently Bonded with Polyhedral Oligosilsesquioxane for Vanadium Redox Flow Batteries <b>2022</b> ,		2
127	Design and evaluation of a wind turbine-driven heat pump system for domestic heating in Scotland. <b>2022</b> , 52, 101987		
126	A two-stage stochastic programming model for the sizing and location of DERs considering electric vehicles and demand response. <b>2022</b> , 30, 100624		O
125	Study on quasi-isothermal expansion process of compressed air based on spray heat transfer. <b>2022</b> , 8, 1995-2007		1
124	Uncertainty modeling of renewable energy sources. <b>2022</b> , 193-208		
123	Synthesis of flower-like manganese oxide for accelerated surface redox reactions on nitrogen-rich graphene of fast charge transport for sustainable aqueous energy storage.		O
122	A comparison of compressed carbon dioxide energy storage and compressed air energy storage in aquifers using numerical methods. <b>2022</b> , 187, 1130-1130		0
121	Comprehensive Review on Metallurgical Upgradation Processes of Nickel Sulfide Ores. <b>2022</b> , 8, 37		Ο
120	A comprehensive review of stationary energy storage devices for large scale renewable energy sources grid integration. <i>Renewable and Sustainable Energy Reviews</i> , <b>2022</b> , 159, 112213	16.2	26
119	Thermal analysis and optimization of stand-alone microgrids with metal hydride based hydrogen storage. <b>2022</b> , 52, 102043		O
118	Improving the Frequency Fluctuations Attenuation of Microgrid by Determining Optimal communication System Delay and Virtual Inertia Values. <b>2021</b> , 14, 119-131		
117	A Critical Review on the Impacts of Energy Storage Systems and Demand-Side Management Strategies in the Economic Operation of Renewable-Based Distribution Network. <b>2022</b> , 14, 2110		3
116	Artificial Intelligence-based Cyclic Voltammetry Behavior Model for Supercapacitance of Zinc oxide (ZnO) Nanocomposite. <b>2022</b> ,		
115	Energy storage to solve the diurnal, weekly, and seasonal mismatch and achieve zero-carbon electricity consumption in buildings. <b>2022</b> , 312, 118744		1

114	Effect of nanofillers and nanotoxicity on the performance of composites: Influencing factors, future scope, challenges and applications.	0
113	Supercapacitors as next generation energy storage devices: Properties and applications. <b>2022</b> , 248, 123617	16
112	Renewable synthetic methanol system design based on modular production lines. <i>Renewable and Sustainable Energy Reviews</i> , <b>2022</b> , 161, 112379	0
111	Multi-mode control strategy for a stand-alone wind energy conversion system with battery energy storage. <b>2022</b> , 51, 104481	1
110	A review on hybrid photovoltaic Battery energy storage system: Current status, challenges, and future directions. <b>2022</b> , 51, 104597	3
109	Influence and comparison of P/Q-control based VSC-HVDC system on the grid power oscillation damping. <b>2022</b> , 8, 1368-1377	1
108	An Economic Optimization Method of Energy Storage Based on Source-Storage Collaboration. <b>2021</b>	
107	Developing Novel Technologies and Services for Intelligent Low Voltage Electricity Grids: Cost <b>B</b> enefit Analysis and Policy Implications. <b>2022</b> , 15, 94	1
106	Evaluation for the Effects of EESS on Renewable Energy Utilization and Load Supply. 2021,	
105	Various methodologies to improve the energy efficiency of a compressed air energy storage system.	Ο
104	Preserving Health of Energy Storage System toward Cooperation with Wind Power. 2021,	
103	Review on Battery Energy Storage System for Power System with Grid Connected Wind Farm. <b>2020</b> ,	
102	Scalable Design of Zinc-Bromine Flow Battery in 3-Dimensional Honeycomb Lattice for Superior Low-Cost Battery.	
101	Battery energy storage systems and SWOT (strengths, weakness, opportunities, and threats) analysis of batteries in power transmission. <b>2022</b> , 123987	7
100	Research on the influence of user side energy storage on power grid line construction demand. <b>2022</b> ,	
99	Optimal design and evaluation of electrochemical CO2 reduction system with renewable energy generation using two-stage stochastic programming. <b>2022</b> , 61, 102026	O
98	Optimal CONOPT solver-based coordination of bi-directional converters and energy storage systems for regulation of active and reactive power injection in modern power networks. <b>2022</b> , 13, 101803	1
97	High-performance solid-state supercapacitors integrated with thermal management systems based on phase change materials: All in one. <b>2022</b> , 446, 136787	1

96	Application of energy storage in integrated energy systems 🖪 solution to fluctuation and uncertainty of renewable energy. <b>2022</b> , 52, 104812		2
95	A review of energy storage technologies in hydraulic wind turbines. <b>2022</b> , 264, 115584		2
94	Potential solvents and electrolytes for energy storage applications: A Review. <b>2022</b> , 2267, 012051		
93	Joint coordination of optimal power management and energy storage system sizing for a full-scale marine current turbine considering microgrid integration constraint. <b>2022</b> , 52, 104792		О
92	Potassium formate-based electrolytes for high performance aqueous electrochemical capacitors. <b>2022</b> , 541, 231657		Ο
91	A Simplified Method for Leakage Estimation of Clay Core Dams with Different Groundwater Levels. <b>2022</b> , 14, 1961		1
90	Compressed Air Energy Storage Capacity Configuration and Economic Evaluation Considering the Uncertainty of Wind Energy. <b>2022</b> , 15, 4637		2
89	Modelling and optimal energy management for battery energy storage systems in renewable energy systems: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2022</b> , 167, 112671	16.2	6
88	The role of energy storage technologies for sustainability in developing countries. 2022, 347-376		
87	A Duality-driven Real-time Dispatch Policy for Remote Wind-storage Plant. 2022,		
8 <sub>7</sub>	A Duality-driven Real-time Dispatch Policy for Remote Wind-storage Plant. 2022,  A comparative study of two liquid air energy storage systems with LNG cold energy recovery. 2022, 1240, 012104		
	A comparative study of two liquid air energy storage systems with LNG cold energy recovery. <b>2022</b> ,		
86	A comparative study of two liquid air energy storage systems with LNG cold energy recovery. <b>2022</b> , 1240, 012104  Advanced sliding mode speed observer with compensated stray-load and iron losses for a	16.2	5
86	A comparative study of two liquid air energy storage systems with LNG cold energy recovery. 2022, 1240, 012104  Advanced sliding mode speed observer with compensated stray-load and iron losses for a stand-alone wind turbine-driven induction generator.  Compressed air energy storage in integrated energy systems: A review. Renewable and Sustainable	16.2	5
86 85 84	A comparative study of two liquid air energy storage systems with LNG cold energy recovery. 2022, 1240, 012104  Advanced sliding mode speed observer with compensated stray-load and iron losses for a stand-alone wind turbine-driven induction generator.  Compressed air energy storage in integrated energy systems: A review. Renewable and Sustainable Energy Reviews, 2022, 167, 112701	16.2	
86 85 84 83	A comparative study of two liquid air energy storage systems with LNG cold energy recovery. 2022, 1240, 012104  Advanced sliding mode speed observer with compensated stray-load and iron losses for a stand-alone wind turbine-driven induction generator.  Compressed air energy storage in integrated energy systems: A review. Renewable and Sustainable Energy Reviews, 2022, 167, 112701  Solid gravity energy storage: A review. 2022, 53, 105226  Provision of Ancillary Services by Wind Generators coupled with Energy Storage Systems: a real	16.2	
86 85 84 83 82	A comparative study of two liquid air energy storage systems with LNG cold energy recovery. 2022, 1240, 012104  Advanced sliding mode speed observer with compensated stray-load and iron losses for a stand-alone wind turbine-driven induction generator.  Compressed air energy storage in integrated energy systems: A review. Renewable and Sustainable Energy Reviews, 2022, 167, 112701  Solid gravity energy storage: A review. 2022, 53, 105226  Provision of Ancillary Services by Wind Generators coupled with Energy Storage Systems: a real Italian Case Study. 2022,  A Comprehensive Review of LVRT Capability and Advanced Nonlinear Backstepping Control of Grid-Connected Wind-Turbine-Driven Permanent Magnet Synchronous Generator During Voltage	16.2	1

78	Control of doubly fed induction generator for power quality improvement: an overview.	O
77	Flexibility as the Key to Stability: Optimization of Temperature and Gas Feed during Downtime towards Effective Integration of Biomethanation in an Intermittent Energy System. <b>2022</b> , 15, 5827	O
76	A novel thermal power unit with feedwater pump turbine driven by thermal energy storage system: System construction and performance evaluation.	
75	Computational evaluation of Ca-decorated nanoporous CN monolayers as high capacity and reversible hydrogen storage media. <b>2022</b> ,	O
74	Accelerating the discovery of battery electrode materials through data mining and deep learning models. <b>2022</b> , 546, 231977	
73	The role and value of inter-seasonal grid-scale energy storage in net zero electricity systems. <b>2022</b> , 120, 103740	O
72	Forecasting solar-to-hydrogen and solar-to-methane energy conversion efficiency using Si and IMM PV-modules: A case-study in Japan. <b>2022</b> , 546, 231991	
71	Flowing water-based tubular triboelectric nanogenerators for sustainable green energy harvesting. <b>2022</b> , 102, 107675	5
7°	Assessing flexibility options in power systems using Fuzzy Logic and AHP methods. <b>2022</b> , 8, 776-791	
69	Real-time quantification for dynamic heat storage characteristic of district heating system and its application in dispatch of integrated energy system. <b>2022</b> , 259, 124960	O
68	Polymer Nanocomposites for Renewable Energy Storage System. <b>2022</b> , 127-135	O
67	Optimisation and analysis of battery storage integrated into a wind power plant participating in a wholesale electricity market with energy and ancillary services. <b>2022</b> , 373, 133909	O
66	Data-driven approaches for power system operation and planning under high renewable energy penetration. <b>2022</b> ,	О
65	Wind Turbine Blade Icing Detection using a novel Bidirectional GRU with Temporal Pattern Attention and Improved Coot Optimization Algorithm.	O
64	Life Cycle Analysis of Polymer Nanocomposites for Energy Storage. <b>2022</b> , 235-239	O
63	Enhanced electrochemical behavior of Mg-doped MnO2 for supercapacitor application. 2022,	O
62	Optimization of DC, AC, and Hybrid AC/DC Microgrid-Based IoT Systems: A Review. <b>2022</b> , 15, 6813	О
61	Toward Dendrite-Free Deposition in Zinc-Based Flow Batteries: Status and Prospects. <b>2022</b> , 8, 117	O

60	A Review of Control Techniques and Energy Storage for Inverter-Based Dynamic Voltage Restorer in Grid-Integrated Renewable Sources. <b>2022</b> , 2022, 1-43	0
59	Hydrogen energy storage integrated battery and supercapacitor based hybrid power system: A statistical analysis towards future research directions. <b>2022</b> ,	3
58	Assessment of Battery Energy Storage Systems Using the Intuitionistic Fuzzy Removal Effects of Criteria and the Measurement of Alternatives and Ranking Based on Compromise Solution Method. <b>2022</b> , 15, 7782	0
57	Modeling and Simulation of a Commercial Lithium-Ion Battery with Charge Cycle Predictions. <b>2022</b> , 14, 14035	o
56	Technical, Economic, and Intelligent Optimization for the Optimal Sizing of a Hybrid Renewable Energy System with a Multi Storage System on Remote Island in Tunisia. <b>2022</b> , 11, 3261	0
55	Novel imidazole-based, ionic liquid: Synthetics linked to enhancing the life cycle of lead-acid batteries. <b>2022</b> , 56, 105932	o
54	Scalable design of zinc-bromine battery in 3-dimensional honeycomb lattice for superior low-cost battery. <b>2023</b> , 553, 232243	0
53	Control strategy of DFIG and SVG cooperating to regulate grid voltage of wind power integration point. <b>2023</b> , 214, 108862	О
52	Advanced energy storage system in smart grids: power quality and reliability. 2023, 409-439	0
51	Performance assessment of supercapacitor energy storage integration into a renewable DC microgrid. <b>2022</b> ,	o
50	Performance Evaluation of Electrical Energy Storage Systems Focused on Gravity Storage Technology. <b>2022</b> ,	0
49	Application of Poly(ether sulfone)-Based Membranes in Clean Energy Technology.	О
48	Design of Stand-Alone O&G Water Injection System Fed by Wind Generation with Battery Support. <b>2022</b> , 2362, 012027	O
47	Assessing the potential increase in the energy storage density of subsea hydro-pneumatic accumulators using CO2 in lieu of air. 1-34	o
46	Liquid air energy storage technology: a comprehensive review of research, development and deployment.	O
45	Comparative analysis of system performance of thermally integrated pumped thermal energy storage systems based on organic flash cycle and organic Rankine cycle. <b>2022</b> , 273, 116416	0
44	Collaborative Optimization of Wind-Solar-Storage Configuration in County Distribution Network Considering Near-Zero Carbon Emission. <b>2022</b> ,	О
43	Coordinated Frequency Control Strategy for VSC-HVDC-Connected Wind Farm and Battery Energy Storage System. <b>2022</b> ,	О

42	Selection and Dimensioning of Energy Storage Systems for Standalone Communities: A Review. <b>2022</b> , 15, 8631	O
41	Establishment of performance metrics for batteries in large-scale energy storage systems from perspective of technique, economics, environment and safety.	O
40	Economic Potentials of Energy Storage Technologies in Electricity Markets with Renewables. 2022,	O
39	Dynamic modeling of vanadium redox flow batteries: Practical approaches, their applications and limitations. <b>2023</b> , 57, 106191	O
38	Thermo-economic analysis of the integrated system of thermal power plant and liquid air energy storage. <b>2023</b> , 57, 106233	О
37	The power balancing benefits of wave energy converters in offshore wind-wave farms with energy storage. <b>2023</b> , 331, 120389	O
36	Progress and challenges of Prussian blue analogs for potassium-ion batteries: in the perspective of redox-active transition metals.	O
35	Experimental study of adsorption CO2 storage device for compressed CO2 energy storage system. <b>2023</b> , 58, 106286	O
34	Atomic Layer Deposition for Electrochemical Energy: from Design to Industrialization. 2022, 5,	0
33	Optimal Planning of Battery Energy Storage Systems by Considering Battery Degradation due to Ambient Temperature: A Review, Challenges, and New Perspective. <b>2022</b> , 8, 290	1
32	Aqueous Colloid Flow Batteries Based on Redox-Reversible Polyoxometalate Clusters and Size-Exclusive Membranes. 387-397	1
31	A Comparative Analysis of Volumetric, Viscometric and Conductometric Properties of Triethylmethylammonium Tetrafluoroborate (TEMABF4) and Tetraethylammonium Tetrafluoroborate (TEABF4) in Pure Propylene Carbonate (PC) and Binary Aqueous Propylene	O
30	Strengths, Weaknesses, Opportunities, and Threats (SWOT) analysis of Supercapacitors: A Review. <b>2023</b> ,	O
29	Towards a business model for second-life batteries (barriers, opportunities, uncertainties, and technologies. 2023,	O
28	Low carbon power generation for offshore oil and gas production. 2023, 17, 100347	О
27	Levelised cost of storage comparison of energy storage systems for use in primary response application. <b>2023</b> , 59, 106573	O
26	Voltage regulation and power loss mitigation by optimal allocation of energy storage systems in distribution systems considering wind power uncertainty. <b>2023</b> , 59, 106467	О
25	Mixed Integer Linear Program model for optimized scheduling of a vanadium redox flow battery with variable efficiencies, capacity fade, and electrolyte maintenance. <b>2023</b> , 59, 106500	O

24	Comprehensive Review of Renewable Energy Communication Modeling for Smart Systems. <b>2023</b> , 16, 409	1
23	Reliability Evaluation of Remote Wind-storage Plant Based on Substitutable Output Capacity. <b>2023</b> , 2418, 012004	O
22	Laser ablated uniform deposition of bismuth oxide film as efficient anode for zinc based flow battery. <b>2023</b> , 451, 142287	0
21	Wind characteristics of Tamil Nadu coast towards development of microgrid - A case study for simulation of small scale hybrid wind and solar energy system. <b>2023</b> , 277, 114282	O
20	System value and utilization performance analysis of grid-integrated energy storage technologies in Japan. <b>2023</b> , 63, 107051	О
19	The role of biofuels for sustainable MicrogridsF: A path towards carbon neutrality and the green economy. <b>2023</b> , 9, e13407	2
18	System and Market-Wide Impact Analysis of Coordinated Demand Response and Battery Storage Operation by a Load-Serving Entity. <b>2023</b> , 16, 1645	О
17	A Comprehensive Review: Study of Artificial Intelligence Optimization Technique Applications in a Hybrid Microgrid at Times of Fault Outbreaks. <b>2023</b> , 16, 1786	O
16	Integration of Battery Energy Storage System to Increase Flexibility and Penetration Renewable Energy in Indonesia: A Brief Review. <b>2022</b> ,	0
15	IoT-Enabled Campus Prosumer Microgrid Energy Management, Architecture, Storage Technologies, and Simulation Tools: A Comprehensive Study. <b>2023</b> , 16, 1863	1
14	Effect of iron concentration on the structure and thermoelectric performance of copper sulphide nanostructures. <b>2023</b> , 655, 414737	О
13	Artificial intelligence applications for microgrids integration and management of hybrid renewable energy sources.	1
12	Technical and economic analysis of energy storage in the compressed air technology with low capacity for the production plant. <b>2023</b> , 282, 116872	О
11	Sustainability Assessment of Energy Storage Technologies Based on Commercialization Viability: MCDM Model. <b>2023</b> , 15, 4707	O
10	Facile Synthesis of a Nickel-Based Dopamine MOF/Multiwalled Carbon Nanotubes Nanocomposite as an Efficient Electrocatalyst for the Oxygen Evolution Reaction. <b>2023</b> , 37, 5388-5398	0
9	A Modified Decentralized Droop Control Method to Eliminate Battery Short-Term Operation in a Hybrid Supercapacitor/Battery Energy Storage System. <b>2023</b> , 16, 2858	O
8	Development of organic redox-active materials in aqueous flow batteries: Current strategies and future perspectives.	O
7	Sizing of Energy Storage System Based on Time Series for providing Frequency Regulation. 2022,	O

6	A Mesoporous Tungsten Oxynitride Nanofibers/Graphite Felt Composite Electrode with High Catalytic Activity for the Cathode in Zn-Br Flow Battery.	О
5	The energy storage mathematical models for simulation and comprehensive analysis of power system dynamics: A review. Part i. <b>2023</b> ,	O
4	Exploring the Redox Activity of a Transition-Metal-Intercalated 1,3,5-Benzenetricarboxylic Acid OrganicIhorganic Network for Potential BatteryBupercapacitor Applications. <b>2023</b> , 37, 6248-6256	О
3	An Optimization Method of Steam Turbine Load Resilient Adjustment by Characterizing Dynamic Changes in Superheated Steam Energy. <b>2023</b> , 16, 3324	0
2	Influence of Rotational Speed on Isothermal Piston Compression System. 2023, 25, 644	О
1	Enhancement of Microgrid Frequency Stability Based on the Combined Power-to-Hydrogen-to-Power Technology under High Penetration Renewable Units. <b>2023</b> , 16, 3377	O