

CITATION REPORT

List of articles citing

A Review of Flywheel Energy Storage System Technologies and Their Applications

DOI: 10.3390/app7030286

Applied Sciences (Switzerland), 2017, 7, 286.

Source: <https://exaly.com/paper-pdf/68377664/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
294	PV output power smoothing using flywheel storage system. 2017,		5
293	Special Issue on Advancing Grid-Connected Renewable Generation Systems. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 577	2.6	
292	Progressive failure behavior of composite flywheels stacked from annular plain profiling woven fabric for energy storage. 2018 , 194, 377-387		5
291	Analysis of a Shaftless Semi-Hard Magnetic Material Flywheel on Radial Hysteresis Self-Bearing Drives. <i>Actuators</i> , 2018 , 7, 87	2.4	5
290	Design and Experimental Evaluation of a Low-Cost Test Rig for Flywheel Energy Storage Burst Containment Investigation. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 2622	2.6	15
289	Analysis of the Development of DC Distribution Network with Renewable Energy and Flexible Energy Storage. <i>Journal of Physics: Conference Series</i> , 2018 , 1087, 042015	0.3	1
288	A Review of Flywheel Energy Storage Systems for Grid Application. 2018,		9
287	Calculation methods of equivalent circuit parameters for a dual stator solid rotor axial flux induction motor. <i>IET Renewable Power Generation</i> , 2018 , 12, 1977-1983	2.9	6
286	Preliminary Design of an Axial Flux Machine with Careless Stator for Flywheel Applications. 2018,		1
285	Comparison of Performance and Controlling Schemes of Synchronous and Induction Machines Used in Flywheel Energy Storage Systems. 2018 , 151, 100-110		13
284	Experimental validation of a general energy storage modelling approach (Part III). <i>Journal of Energy Storage</i> , 2018 , 20, 542-550	7.8	7
283	Li-Ion Battery-Flywheel Hybrid Storage System: Countering Battery Aging During a Grid Frequency Regulation Service. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 2330	2.6	9
282	Wayside Energy Storage System for Peak Demand Reduction in Electric Rail Systems. 2018,		2
281	Review of Electrically Powered Propulsion for Aircraft. 2018,		7
280	El Hierro Renewable Energy Hybrid System: A Tough Compromise. <i>Energies</i> , 2018 , 11, 2812	3.1	16
279	Design and Multi-Objective Optimization of Fiber-Reinforced Polymer Composite Flywheel Rotors. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1256	2.6	15
278	State of charge and state of power management among the energy storage systems by the fuzzy tuned dynamic exponent and the dynamic PI controller. <i>Journal of Energy Storage</i> , 2018 , 19, 348-363	7.8	24

277	A series hybrid real inertia energy storage system. <i>Journal of Energy Storage</i> , 2018 , 20, 1-15	7.8	6
276	Optimisation of the Structure of a Wind Farm Kinetic Energy Storage for Improving the Reliability of Electricity Supplies. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1439	2.6	8
275	Control of BLDC Machine drive for Flywheel Energy Storage in DC Micro-grid Applications. 2018 ,		1
274	Magnetically suspended flywheel in gimbal mount [Nonlinear modelling and simulation. 2018 , 432, 327-350		9
273	Development of a High-Fidelity Model for an Electrically Driven Energy Storage Flywheel Suitable for Small Scale Residential Applications. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 453	2.6	14
272	Moon-based planetary defense campaign. 2018 , 5, 85-105		1
271	Review of Energy Storage System Technologies in Microgrid Applications: Issues and Challenges. <i>IEEE Access</i> , 2018 , 6, 35143-35164	3.5	209
270	Wayside energy recovery systems in DC urban railway grids. 2019 , 1, 100001		18
269	Sustainable electricity management beyond generation. 2019 , 539-563		0
268	Modeling of high temperature thermal energy storage in rock beds [Experimental comparison and parametric study. <i>Applied Thermal Engineering</i> , 2019 , 163, 114355	5.8	5
267	Simulation of large-scale energy storage to improve high-voltage DC stability. 2019 , 107, 02008		2
266	Homopolar Active Magnetic Bearing Design for Outer Rotor Kinetic Energy Storages. 2019 ,		2
265	Vibration-Based Fault Detection for Flywheel Condition Monitoring. 2019 , 17, 487-494		0
264	Assessment of the Carbon and Cost Savings of a Combined Diesel Generator, Solar Photovoltaic, and Flywheel Energy Storage Islanded Grid System. <i>Energies</i> , 2019 , 12, 3356	3.1	9
263	Performance of Electrically Small Conventional and Mechanical Antennas. 2019 , 67, 2209-2223		42
262	State of charge and state of power management of the hybrid energy storage system in an architecture of microgrid. <i>Journal of Renewable and Sustainable Energy</i> , 2019 , 11, 014103	2.5	12
261	Thermal Behavior of a Magnetically Levitated Spindle for Fatigue Testing of Fiber Reinforced Plastic. <i>Actuators</i> , 2019 , 8, 37	2.4	1
260	Reduction of Power Production Costs in a Wind Power Plant Flywheel Energy Storage System Arrangement. <i>Energies</i> , 2019 , 12, 1942	3.1	10

259	A comprehensive review of the key technologies for pure electric vehicles. <i>Energy</i> , 2019 , 182, 824-839	7.9	136
258	Wave Power Output Smoothing through the Use of a High-Speed Kinetic Buffer. <i>Energies</i> , 2019 , 12, 2196-1		8
257	Introduction to Electrochemical Energy Storage. 2019 , 1-28		
256	Design and testing of a horizontal rock bed for high temperature thermal energy storage. <i>Applied Energy</i> , 2019 , 251, 113345	10.7	17
255	Towards future infrastructures for sustainable multi-energy systems: A review. <i>Energy</i> , 2019 , 184, 2-21	7.9	80
254	Analysis of the Peak Load Leveling Mode of a Hybrid Power System with Flywheel Energy Storage in Oil Drilling Rig. <i>Energies</i> , 2019 , 12, 606	3.1	1
253	The Status and Future of Flywheel Energy Storage. 2019 , 3, 1394-1399		26
252	Heat pipes as a passive cooling system for flywheel energy storage application. <i>Journal of Physics: Conference Series</i> , 2019 , 1191, 012024	0.3	1
251	Review of energy storage and transportation of energy. <i>Energy Storage</i> , 2019 , 1, e49	2.8	91
250	Potential of on-board energy recovery systems to reduce haulage costs over the life of a deep surface mine. 2019 , 128, 51-64		1
249	Design of Microgrid with Flywheel Energy Storage System Using HOMER Software for Case Study. 2019 ,		9
248	Superconducting AC Homopolar Machines for High-Speed Applications. <i>Energies</i> , 2019 , 12, 86	3.1	17
247	State of charge and state of power management in a hybrid energy storage system by the self-tuned dynamic exponent and the fuzzy-based dynamic PI controller. 2019 , 29, e2848		12
246	Coordination strategies of distributed energy resources including FESS, DEG, FC and WTG in load frequency control (LFC) scheme of hybrid isolated micro-grid. 2019 , 109, 535-547		59
245	A Real Scale Prototype to Smooth Short-Time Power Fluctuations of Marine Renewable Energy Sources -Uliss.EMR Project-. 2019 ,		1
244	Performance and Loss Analysis of Squirrel Cage Induction Machine Based Flywheel Energy Storage System. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 4537	2.6	6
243	Disturbance Rejection Control Strategy of Hybrid Battery/Super Capacitors Power System Based on a Single Converter. 2019 ,		2
242	Overview of Flywheel Systems for Renewable Energy Storage with a Design Study for High-speed Axial-flux Permanent-magnet Machines. 2019 ,		5

241	Dynamic Modeling of Pulsed Alternators Using Ltspice. 2019 ,		2
240	A Survey of State-of-the-Art on Microgrids: Application in Real Time Simulation Environment. 2019 ,		1
239	Flywheel vs. Supercapacitor as Wayside Energy Storage for Electric Rail Transit Systems. 2019 , 4, 62		8
238	Simulation Results from a Kinetic-Electrochemical Energy Storage Model for Network Frequency Regulation. 2019 ,		1
237	Comparative Review of Energy Storage Systems, Their Roles, and Impacts on Future Power Systems. <i>IEEE Access</i> , 2019 , 7, 4555-4585	3.5	146
236	An updated review of energy storage systems: Classification and applications in distributed generation power systems incorporating renewable energy resources. <i>International Journal of Energy Research</i> , 2019 , 43, 6171-6210	4.5	80
235	Wind-hydrogen standalone uninterrupted power supply plant for all-climate application. 2019 , 44, 3433-3449		25
234	InputOutput Linearization and PI controllers for AC/AC matrix converter based Dynamic Voltage Restorers with Flywheel Energy Storage: a comparison. <i>Electric Power Systems Research</i> , 2019 , 169, 214-228	3.5	11
233	Single and Polystorage Technologies for Renewable-Based Hybrid Energy Systems. 2019 , 77-131		12
232	Dynamic analysis of a hydraulic motor drive with variable inertia flywheel. 2020 , 234, 734-747		
231	Shape-stabilized phase change materials of polyolefin/wax blends and their composites. 2020 , 139, 2951-2963		8
230	A review of energy storage types, applications and recent developments. <i>Journal of Energy Storage</i> , 2020 , 27, 101047	7.8	361
229	Energy storage devices in electrified railway systems: A review. 2020 , 2, 183-201		20
228	Sustainability Performance Index for Ranking Energy Storage Technologies using Multi-Criteria Decision-Making Model and Hybrid Computational Method. <i>Journal of Energy Storage</i> , 2020 , 32, 101820	7.8	12
227	Review of energy storage services, applications, limitations, and benefits. <i>Energy Reports</i> , 2020 , 6, 288-306	3.6	85
226	A Comprehensive Review on Energy Storage Systems: Types, Comparison, Current Scenario, Applications, Barriers, and Potential Solutions, Policies, and Future Prospects. <i>Energies</i> , 2020 , 13, 3651	3.1	47
225	Sensitivity analysis of a wind farm with integrated flywheel energy storage. 2020 ,		0
224	Design Trade-Offs and Feasibility Assessment of a Novel One-Body, Laminated-Rotor Flywheel Switched Reluctance Machine. <i>Energies</i> , 2020 , 13, 5857	3.1	2

223	Predictive Power Control for Photovoltaic Grid Connected System with Reduction of Switching Frequency. 2020 ,		
222	Assessment of energy storage technologies: A review. 2020 , 223, 113295		98
221	A One-Body, Laminated-Rotor Flywheel Switched Reluctance Machine for Energy Storage: Design Trade-Offs. 2020 ,		2
220	Intelligent Energy Management Systems for Electrified Vehicles: Current Status, Challenges, and Emerging Trends. 2020 , 1, 279-295		3
219	A Case Study on Flywheel Energy Storage System Application for Frequency Regulation of Islanded Amphoe Mueang Mae Hong Son Microgrid. 2020 ,		0
218	Sensorless Control of Flywheel Energy Storage System with an Extended Complex Kalman Filter for Wind Application. 2020 ,		1
217	A Review of Energy Storage Technologies Application Potentials in Renewable Energy Sources Grid Integration. 2020 , 12, 10511		38
216	A review of energy storage technologies for large scale photovoltaic power plants. <i>Applied Energy</i> , 2020 , 274, 115213	10.7	57
215	A Comprehensive Study of the Parameters Impacting the Fuel Economy of Plug-In Hybrid Electric Vehicles. 2020 , 5, 596-615		6
214	Transmotor-Based Powertrain for High-Performance Electric Vehicle. 2020 , 6, 1199-1210		4
213	Electricity generation from the high-speed wind of the spillway in a hydroelectric power station. 2020 , 1-13		1
212	Techno-Economic Assessment of Energy Storage Technologies for Inertia Response and Frequency Support from Wind Farms. <i>Energies</i> , 2020 , 13, 3421	3.1	12
211	A novel predictive power flow control strategy for hydrogen city rail train. 2020 , 45, 4922-4931		5
210	. 2020 , 6, 181-198		20
209	Emerging topics in energy storage based on a large-scale analysis of academic articles and patents. <i>Applied Energy</i> , 2020 , 263, 114625	10.7	20
208	Design and Modeling of an Integrated Flywheel Magnetic Suspension for Kinetic Energy Storage Systems. <i>Energies</i> , 2020 , 13, 847	3.1	7
207	Hybridisation of battery/flywheel energy storage system to improve ageing of lead-acid batteries in PV-powered applications. 2020 , 13, 337-359		7
206	A review of mechanical energy storage systems combined with wind and solar applications. 2020 , 210, 112670		83

205	The Flywheel Energy Storage System: An Effective Solution to Accumulate Renewable Energy. 2020		10
204	Energy storage usages: Engineering reactions, economic-technological values for electric vehiclesA technological outlook. 2020 , 30, e12422		8
203	High-Performance 4WD Electric Powertrain With Flywheel Kinetic Energy Recovery. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 772-784	7.2	10
202	A Comprehensive Review of DC Fast-Charging Stations With Energy Storage: Architectures, Power Converters, and Analysis. 2021 , 7, 345-368		35
201	Critical review of energy storage systems. <i>Energy</i> , 2021 , 214, 118987	7.9	116
200	Energy storage and conversion. 2021 , 73-107		
199	Introducing a novel liquid air cryogenic energy storage system using phase change material, solar parabolic trough collectors, and Kalina power cycle (process integration, pinch, and exergy analyses). 2021 , 228, 113653		21
198	Environmental sustainability analysis of Formula-E electric motor. 2021 , 235, 303-332		1
197	Thermal behavior of lithium-ion battery in microgrid application: Impact and management system. <i>International Journal of Energy Research</i> , 2021 , 45, 4967-5005	4.5	2
196	TOMARES. 2021 , 13, 521-532		0
195	Energy consumption and environmental consequences. 2021 , 1-55		
194	Coordination of a Flywheel Energy Storage Matrix System: An External Model Approach. <i>IEEE Access</i> , 2021 , 9, 34475-34486	3.5	2
193	System Analysis of Flywheels. 2021 ,		
192	High Speed Flywheels. 2021 ,		
191	Experimental Characterization of Low-Speed Passive Discharge Losses of a Flywheel Energy Storage System. 2021 , 2, 1-15		2
190	A Review of Virtual Inertia Techniques for Renewable Energy-Based Generators.		0
189	Development of eco-friendly mechanized rotary parking lots with a flywheel energy storage device. 2021 , 677, 052037		
188	The Effect of Heat Exchange Fluid Composition on the Performance of a Liquid Nitrogen Engine System. <i>Energies</i> , 2021 , 14, 1474	3.1	

187	Techno-Economic Analysis of Hybrid Renewable Energy System with Energy Storage for Rural Electrification. 2021 , 63-96		0
186	Review of Energy Storage System for Microgrid. 2021 , 57-90		3
185	Techno-Economic Analysis of On-Site Energy Storage Units to Mitigate Wind Energy Curtailment: A Case Study in Scotland. <i>Energies</i> , 2021 , 14, 1691	3.1	8
184	Magnetic Bearing with HTS Tapes for Flywheel Energy Storage System. 2021 ,		1
183	Hybrid Energy Storage Review for Renewable Energy System Technologies and Applications. 2021 ,		3
182	Study of Flywheel Energy Storage in a Pure EV Powertrain in a Parallel Hybrid Setup and Development of a Novel Flywheel Design for Regeneration Efficiency Improvement.		
181	Design and Construction of an Experimental Test Bench for Storing Kinetic Energy in a Flywheel.		
180	Critical Review of Flywheel Energy Storage System. <i>Energies</i> , 2021 , 14, 2159	3.1	28
179	Air friction losses in PM BLDC motor with external rotor operating as kinetic energy storage system. 2021 ,		
178	Performance analysis of a low-cost small-scale flywheel energy storage system. 2021 ,		2
177	Rotational energy harvesting for self-powered sensing. 2021 , 5, 1074-1118		51
176	A storage expansion planning framework using reinforcement learning and simulation-based optimization. <i>Applied Energy</i> , 2021 , 290, 116778	10.7	6
175	Energy recovery for hybrid hydraulic excavators: flywheel-based solutions. 2021 , 125, 103648		10
174	Energy Management and Control System Design of an Integrated Flywheel Energy Storage System for Residential Users. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 4615	2.6	2
173	Redox flow batteries: role in modern electric power industry and comparative characteristics of the main types. 2021 , 90, 677-702		7
172	An extensive review on load frequency control of solar-wind based hybrid renewable energy systems. 1-25		5
171	Feasibility study of a diesel-powered hybrid DMU. 2021 , 29, 271		
170	Performance of a novel liquid nitrogen power system. <i>Applied Thermal Engineering</i> , 2021 , 191, 116896	5.8	3

169	Development of a dynamic Combined Heat and Power Plant and Flywheel Energy Storage System Model validated with Field Tests. 2021,		
168	Analyzing the suitability of flywheel energy storage systems for supplying high-power charging e-mobility use cases. <i>Journal of Energy Storage</i> , 2021 , 39, 102615	7.8	8
167	Flywheel energy storage systems: A critical review on technologies, applications, and future prospects. 2021 , 31, e13024		11
166	Control Design and Stability Analysis of an Energy Storage System in a DC Link for Industrial Pulsed Power Applications. 2021,		
165	Some steps for India to move towards 100% Renewable Energy. 2021,		
164	A critical review of energy storage technologies for microgrids. 1		1
163	Design of In-Situ Flywheel Generator and Energy Storage System for Enhanced Power Production on Mars. 2021,		0
162	Empowering smart grid: A comprehensive review of energy storage technology and application with renewable energy integration. <i>Journal of Energy Storage</i> , 2021 , 39, 102591	7.8	44
161	A novel consequent-pole bearingless PMSM with integrated winding for flywheel energy storage. 2021 , 57, 789		0
160	Modeling and Control of an Energy Storage System for Peak Shaving in Industrial Pulsed Power Applications. 2021,		
159	Bio-Inspired Electricity Storage Alternatives to Support Massive Demand-Side Energy Generation: A Review of Applications at Building Scale. 2021 , 6,		2
158	The economic and reliability impacts of grid-scale storage in a high penetration renewable energy system. 2021 , 3, 100052		5
157	Integration of energy storage system and renewable energy sources based on artificial intelligence: An overview. <i>Journal of Energy Storage</i> , 2021 , 40, 102811	7.8	22
156	Low power energy harvesting systems: State of the art and future challenges. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 147, 111230	16.2	10
155	A comprehensive review on energy storage in hybrid electric vehicle. 2021 , 8, 621-621		10
154	A review of technologies and applications on versatile energy storage systems. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 148, 111263	16.2	46
153	The development of a techno-economic model for the assessment of the cost of flywheel energy storage systems for utility-scale stationary applications. <i>Sustainable Energy Technologies and Assessments</i> , 2021 , 47, 101382	4.7	3
152	Development in energy storage system for electric transportation: A comprehensive review. <i>Journal of Energy Storage</i> , 2021 , 43, 103153	7.8	11

151	Review of Electric Machines in More-/Hybrid-/Turbo-Electric Aircraft. 2021 , 7, 2976-3005		21
150	. 2021 , 7, 2356-2375		3
149	Design and analysis of a flywheel energy storage system fed by matrix converter as a dynamic voltage restorer. <i>Energy</i> , 2022 , 238, 121687	7.9	5
148	Optimization and Management of Redox Flow Batteries. 2021 ,		
147	The Role of Energy Storage and Carbon Capture in Electricity Markets. 2020 , 1-37		1
146	The effects of temperature and membrane thickness on the performance of aqueous alkaline redox flow batteries using naphthoquinone and ferrocyanide as redox couple. 2020 , 37, 2326-2333		6
145	THE USE OF WIND-HYDROGEN UNINTERRUPTED POWER SUPPLY PLANT IN DIFFERENT CLIMATIC CONDITIONS. 2018 , 30-54		4
144	THE REVIEW OF SELECTED ELECTRICAL ENERGY STORAGE TECHNIQUES. 2019 , 9, 23-28		1
143	Grid Integration of Large Scale Renewable Energy Sources: Challenges,Issues and Mitigation Technique. 2021 ,		
142	Solar Photovoltaics. 2021 , 60-71		
141	Policy Frameworks and Institutions for Decarbonisation: The Energy Sector as "litmus Test" 2021 , 7-38		
140	Cities. 2021 , 271-300		
139	Decarbonisation Strategies and Economic Opportunities in Australia. 2021 , 203-236		
138	Index. 2021 , 668-680		
137	Hydropower. 2021 , 125-138		
136	Transitioning to a Prosperous, Resilient and Carbon-Free Economy: A Guide for Decision-Makers. 2021 ,		
135	Design of a Neural Super-Twisting Controller to Emulate a Flywheel Energy Storage System. <i>Energies</i> , 2021 , 14, 6416	3.1	1
134	Agriculture. 2021 , 501-526		

133 Transport. **2021**, 389-407

132 Nuclear Energy. **2021**, 105-124

131 Financing the Transition. **2021**, 621-645

130 Example Economies. **2021**, 201-268

129 Forests. **2021**, 462-500

128 Energy Storage. **2021**, 139-172

127 Solar Thermal Energy. **2021**, 72-104

0

126 Improving the Governance of Governments. **2021**, 591-620

125 Effects of Viscoelasticity on the Stress Evolution over the Lifetime of Filament-Wound Composite Flywheel Rotors for Energy Storage. *Applied Sciences (Switzerland)*, **2021**, 11, 9544

2.6

1

124 Trade and Climate Change. **2021**, 571-590

0

123 Land Use, Forests and Agriculture. **2021**, 439-526

122 Cities and Industry. **2021**, 269-438

121 Mining, Metals, Oil and Gas. **2021**, 527-568

120 Industry and Manufacturing. **2021**, 408-438

119 Foreword. **2021**, xxv-xxviii

118 Wind Energy. **2021**, 41-59

117 Introduction. **2021**, 1-6

116 Buildings and Precincts. **2021**, 301-337

- 115 Technologies for Decarbonising the Electricity Sector. **2021**, 39-200
- 114 Addressing Barriers to Change. **2021**, 569-667
- 113 Land Use. **2021**, 441-461
- 112 Social Movements for Change. **2021**, 646-667
- 111 Decarbonisation Strategies and Economic Opportunities in Indonesia. **2021**, 237-268
- 110 Mining, Metals, Oil and Gas. **2021**, 529-568
- 109 The Hydrogen Economy. **2021**, 173-200
- 108 National Climate Change Adaptation Case Study: Early Adaptation to Climate Change through Climate-Compatible Development and Adaptation Pathways. **2021**, 365-388 1
- 107 Urban Water. **2021**, 338-364
- 106 Design optimization, construction, and testing of a hydraulic flywheel accumulator. *Journal of Energy Storage*, **2021**, 44, 103281 7.8 0
- 105 Application of Contactless Inductive Charging for Shipboard Review. **2020**, 283-298
- 104 . **2020**, 1
- 103 Energy and environmental footprints of flywheels for utility-scale energy storage applications. **2021**, 1, 100020
- 102 Design, optimization and safety assessment of energy storage: A case study of large-scale solar in Malaysia. *Energy Storage*, **2021**, 3, e221 2.8 1
- 101 Cooperative Control of A Flywheel Energy Storage System with Identical Damping. **2020**, 53, 12771-12776
- 100 Short-term Energy Recovery Control for Virtual Inertia Provision by Renewable Energy Sources. **2021**,
- 99 Techno-Economic Analysis of a Flywheel Energy Storage System performing a Dynamic Frequency Response Service. **2021**, 0
- 98 Electrical and Energy Systems Integration for Maritime Environment-Friendly Transportation. *Energies*, **2021**, 14, 7240 3.1 0

97	Design of a Low-Loss, Low-Cost Rolling Element Bearing System for a 5 kWh/100 kW Flywheel Energy Storage System. <i>Energies</i> , 2021 , 14, 7195	3.1	2
96	A survey of technical efficiency in crane systems using POET structure. <i>Journal of Physics: Conference Series</i> , 2020 , 1577, 012037	0.3	
95	PROSPECTS AND BACKGROUND INTRODUCTION OF AUTONOMOUS POWER SUPPLY SYSTEMS FOR AGRICULTURAL ENTERPRISES. 2020 , 51-63		1
94	Today, Tomorrow, and the Future of Energy Storage Materials for Solar Energy. <i>Mendis Ve Makina</i> ,	0.1	
93	Pumped hydro storage for microgrid applications. 2022 , 323-354		0
92	Intelligent Flywheel Energy Storage System Speed Integrated to the Wind Energy Conversion System Based on Multiphase Induction Machine. <i>Lecture Notes in Networks and Systems</i> , 2022 , 688-697	0.5	
91	A novel flywheel energy storage system: Based on the barrel type with dual hubs combined flywheel driven by switched flux permanent magnet motor. <i>Journal of Energy Storage</i> , 2021 , 47, 103604	7.8	1
90	Energy model of transport machines with braking energy recovery. <i>Journal of Physics: Conference Series</i> , 2021 , 2094, 042053	0.3	
89	Energy Storage. 2022 , 41-54		
88	A Review of DC Shipboard Microgrids Part I: Power Architectures, Energy Storage and Power Converters. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	10
87	Research of a Stator PM Excitation Solid Rotor Machine for Flywheel Energy Storage System. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	0
86	A review of flywheel energy storage systems: state of the art and opportunities. <i>Journal of Energy Storage</i> , 2022 , 46, 103576	7.8	14
85	Des volants pleins d'énergie. <i>Pour la science Fr</i> , 2019 , N° 506 - décembre, 88-90	0	
84	High-Power Low-Energy Flywheels for Power System Support: A Review. 2020 ,		2
83	A Review of Energy Storage System Study. 2020 ,		1
82	A Study on Human Mechanical Power Transmission using a Flywheel based Energy Harvester. 2020 ,		1
81	Energy Storage Flywheel Rotors Mechanical Design. <i>Encyclopedia</i> , 2022 , 2, 301-323		1
80	PERFORMANCE EVALUATION OF ADVANCED ENERGY STORAGE SYSTEMS: A REVIEW. <i>Energy and Environment</i> , 0958305X2210747	2.4	0

79	Flywheel sizing and analysis of coefficient fluctuation based on the crank kinematic free response to a torque pulse input. <i>Australian Journal of Mechanical Engineering</i> , 1-11	1	
78	Recent advances of energy storage technologies for grid: A comprehensive review. <i>Energy Storage</i> ,	2.8	2
77	Flywheel energy storage. 2022 , 207-242		1
76	Hybrid frequency control strategies based on hydro-power, wind, and energy storage systems: Application to 100% renewable scenarios. <i>IET Renewable Power Generation</i> ,	2.9	
75	Development of a Flywheel Hybrid Power System in Vehicles without the Electric Drive Device Rated Capacity Limit. <i>World Electric Vehicle Journal</i> , 2022 , 13, 27	2.5	0
74	Renewable Energy Sources: A Study Focused on Wind Energy. <i>Springer Proceedings in Energy</i> , 2022 , 99-118	2.2	1
73	Recovery of Trains Braking Energy in a Railway Micro-Grid Devoted to Train Plus Electric Vehicle Integrated Mobility. <i>Energies</i> , 2022 , 15, 1261	3.1	0
72	Hybrid energy storage system topology approaches for use in transport vehicles: A review. <i>Energy Science and Engineering</i> ,	3.4	2
71	Machine Learning for Flow Batteries: Opportunities and Challenges. <i>Chemical Science</i> ,	9.4	0
70	A Review on Architecture of Hybrid Electrical Vehicle and Multiple Energy Storage Devices. <i>Springer Proceedings in Energy</i> , 2022 , 459-473	0.2	
69	Comparison and influence of flywheels energy storage system control schemes in the frequency regulation of isolated power systems. <i>IEEE Access</i> , 2022 , 1-1	3.5	1
68	Control Strategy of Flywheel Energy Storage System Based on Primary Frequency Modulation of Wind Power. <i>Energies</i> , 2022 , 15, 1850	3.1	1
67	Review of Peak Shaving Features of the Power Box. <i>Energy Technology</i> , 2101055	3.5	
66	Control Strategies for Highly Gyroscopic Outer Rotors with Diametral Enlargement in Active Magnetic Bearings. <i>Actuators</i> , 2022 , 11, 91	2.4	0
65	A partially underground rock bed thermal energy storage with a novel air flow configuration. <i>Applied Energy</i> , 2022 , 315, 118931	10.7	1
64	Power storage using sand and engineered materials as an alternative for existing energy storage technologies. <i>Journal of Energy Storage</i> , 2022 , 51, 104381	7.8	0
63	Series Structure of a New Superconducting Energy Storage. <i>IEEE Transactions on Applied Superconductivity</i> , 2022 , 32, 1-5	1.8	
62	A review of control strategies for flywheel energy storage system and a case study with matrix converter. <i>Energy Reports</i> , 2022 , 8, 3948-3963	4.6	4

61	State of Charge Balance of Distributed Batteries in DC Shipboard Microgrids. 2021,		
60	Stability enhancement for all-iron aqueous redox flow battery using iron-3-[bis(2-hydroxyethyl)amino]-2-hydroxypropanesulfonic acid complex and ferrocyanide as redox couple. <i>International Journal of Energy Research</i> , 2022 , 46, 6866-6875	4.5	0
59	Electricity Storage in Local Energy Systems.		
58	Adaptive predictive control of flywheel storage for transient stability enhancement of a wind penetrated power system. <i>International Journal of Energy Research</i> , 2022 , 46, 6654-6671	4.5	2
57	Determination and Functional Implementation of Operating Point of a Centrifugal Pump With BLDC Motor Détermination et implémentation fonctionnelle du point de fonctionnement d'une pompe centrifuge avec moteur BLDC. <i>Canadian Journal of Electrical and Computer Engineering</i> , 2022 , 1-9	1.4	
56	Generation of Free Energy using a Compact Flywheel. 2022,		0
55	Investigating the Role of Flexibility Options in Multi-vector Energy Systems. <i>Power Systems</i> , 2022 , 215-231	14	
54	Evaluation of Energy Storage Systems for Sustainable Development of Renewable Energy Systems - A Comprehensive Review. <i>Journal of Renewable and Sustainable Energy</i> ,	2.5	1
53	Battery energy storage systems and SWOT (strengths, weakness, opportunities, and threats) analysis of batteries in power transmission. <i>Energy</i> , 2022 , 123987	7.9	7
52	Hybrid Energy Storage Design and Dispatch Strategy Evaluation with Sensitivity Analysis: Techno-Economic-Environmental Assessment. <i>Energy Storage</i> ,	2.8	0
51	A survey on multi-criterion decision parameters, integration layout, storage technologies, sizing methodologies and control strategies for integrated renewable energy system. <i>Sustainable Energy Technologies and Assessments</i> , 2022 , 52, 102246	4.7	2
50	A review of behind-the-meter energy storage systems in smart grids. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 164, 112573	16.2	1
49	Energy Storage Technologies; Recent Advances, Challenges, and Prospectives. <i>Energy Systems in Electrical Engineering</i> , 2022 , 125-150	0.3	0
48	Differential Power Processing-based Constant Power Generation towards Grid-friendly Photovoltaic System. 2022,		
47	Introduction to various sustainable energy storage technologies. 2022 , 33-57		
46	Recent Advances in Bipedal Walking Robots: Review of Gait, Drive, Sensors and Control Systems. <i>Sensors</i> , 2022 , 22, 4440	3.8	5
45	Applications of Energy Storage Methods in Smart Grids. 2022,		
44	Ammonia: A versatile candidate for the use in energy storage systems. <i>Renewable Energy</i> , 2022 , 194, 955-977	8.1	1

43	Risk analysis of a flywheel battery gearbox based on optimized stochastic resonance model. <i>Journal of Energy Storage</i> , 2022 , 52, 104926	7.8	1
42	Control Strategy of Grid-Side Converter for Flywheel Energy Storage System under Grid Asymmetrical Faults. 2022 ,		
41	Latest Energy Storage Trends in Multi-Energy Standalone Electric Vehicle Charging Stations: A Comprehensive Study. <i>Energies</i> , 2022 , 15, 4727	3.1	4
40	Energy storage systems: A review. 2022 ,		8
39	Physical Energy Storage Technologies: Basic Principles, Parameters and Applications. 3, 73-84		0
38	Thermodynamic analysis of a novel absorption thermochemical energy storage cycle with double compression coupled two-stage generation. <i>Applied Thermal Engineering</i> , 2022 , 215, 118912	5.8	
37	Frequency control studies: A review of power system, conventional and renewable generation unit modeling. <i>Electric Power Systems Research</i> , 2022 , 211, 108191	3.5	0
36	Energy-efficient system and charge balancing topology for electric vehicle application. <i>Sustainable Energy Technologies and Assessments</i> , 2022 , 53, 102516	4.7	
35	Impact of Mechanical Storage System Technologies: A Powerful Combination to Empowered the Electrical Grids Application. 2022 ,		0
34	Genetic Algorithm Optimisation of Hybrid Energy Storage System providing Dynamic Frequency Response. 2022 ,		0
33	Energy Storage Solutions for Offshore Applications. 2022 , 15, 6153		0
32	Optimal scheduling of Egyptian grid with pumped storage hydroelectric power plant.		
31	Consequence Analysis of Most Hazardous Initiating Event in Electrical Energy Storage Systems Using Event Tree Analysis.		0
30	Feasibility of integrated photovoltaic and mechanical storage systems for irrigation purposes in remote areas: Optimization, energy management, and multicriteria decision-making. 2022 , 38, 102363		
29	Distributed control of a flywheel energy storage system subject to unreliable communication network. 2022 , 8, 11729-11739		0
28	Energy Storage Technologies. 2022 ,		0
27	Asymptotic internal model based coordination of a flywheel energy storage matrix system. 10,		0
26	Numerical Model and an Analysis of Inertial Accumulator Operation Under Selected Working Conditions. 2022 , 16, 286-291		0

25	Modeling Methodology of Flywheel Energy Storage System for Microgrid Applications. 2023 , 191-204	0
24	Energy storage strategy analysis based on the Choquet multi-criteria preference aggregation model: The Portuguese case. 2022 , 101437	1
23	Techno-economic assessment of novel hybrid energy storage control strategies for Dynamic Frequency Response. 2022 , 55, 105694	0
22	Multi-Criteria Decision-Making Problem for Energy Storage Technology Selection for Different Grid Applications. 2022 , 15, 7612	2
21	Design and Sizing of Electric Bus Flash Charger Based on a Flywheel Energy Storage System: A Case Study. 2022 , 15, 8032	1
20	Artificial intelligence and machine learning applications in energy storage system: technology overview and perspectives. 2023 , 1-26	0
19	Excess power rerouting in the grid system during high penetration solar photovoltaic. 2023 , 214, 108871	0
18	A comprehensive review of techno-socio-enviro-economic parameters, storage technologies, sizing methods and control management for integrated renewable energy system. 2022 , 54, 102849	1
17	Recuperation of railcar braking energy using energy storage at station level. 2022 ,	0
16	A Bespoke Frequency Response Service suitable for delivery by Flywheel Energy Storage Systems. 2022 ,	0
15	Pole Selection of Switched Reluctance Machine for FESS. 2022 ,	0
14	Design and Analysis of a Stator Excitation Solid Rotor Machine for Flywheel Energy Storage. 2022 ,	0
13	Comparative Analysis of Energy Storage Methods for Energy Systems and Complexes. 2022 , 15, 9541	1
12	Application of Decomposition-Based Hybrid Wind Power Forecasting in Isolated Power Systems with High Renewable Energy Penetration. 2022 , 237-255	0
11	Research on the Economic Optimization of an Electric Gas Integrated Energy System Considering Energy Storage Life Attenuation. 2023 , 13, 1080	0
10	Renewable Energy Source Optimization Based on Pumped-Storage Hydroelectricity. 2022 ,	0
9	Optimal Scheduling of Battery-Flywheel Hybrid Energy Storage System for Off-Grid Power System with Renewable Energy. 2022 ,	0
8	Suitability Assessment of Flywheel Energy Storage Systems for providing new Frequency Response Services in the UK. 2022 ,	0

- 7 Comprehensive evaluation of energy storage systems for inertia emulation and frequency regulation improvement. **2023**, 9, 2566-2576 ○
- 6 Suitability assessment of high-power energy storage technologies for offshore oil and gas platforms: A life cycle cost perspective. **2023**, 61, 106643 ○
- 5 Optimal sizing and energy management strategy for EV workplace charging station considering PV and flywheel energy storage system. **2023**, 62, 106937 1
- 4 CFD as a Decision Tool for Pumped Storage Hydropower Plant Flow Measurement Method. **2023**, 15, 779 ○
- 3 The energy storage mathematical models for simulation and comprehensive analysis of power system dynamics: A review. Part i. **2023**, ○
- 2 Flywheel energy storage. **2023**, 507-541 ○
- 1 Recent Progress and Prospects of NASICON Framework Electrodes for Na-ion Batteries. **2023**, 101128 ○