

# Tomonobu Senjyu

## List of Publications by Year in Descending Order

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

529  
papers

8,647  
citations

45  
h-index

77  
g-index

652  
ext. papers

11,044  
ext. citations

3.3  
avg, IF

6.56  
L-index

#	Paper	IF	Citations
529	Multi-objective Optimization and Decision-Making for Net-Zero Energy Smart House. <i>Springer Tracts in Nature-inspired Computing</i> , <b>2022</b> , 157-181	1.8	
528	Impact of Time-of-Use Demand Response Program on Optimal Operation of Afghanistan Real Power System. <i>Energies</i> , <b>2022</b> , 15, 296	3.1	19
527	Technical and Economic Analysis of an HVDC Transmission System for Renewable Energy Connection in Afghanistan. <i>Sustainability</i> , <b>2022</b> , 14, 1468	3.6	1
526	Performance Analysis of Modular Multilevel Converter with NPC Sub-Modules in Photovoltaic Grid-Integration. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 1219	2.6	1
525	A Short Assessment of Renewable Energy for Optimal Sizing of 100% Renewable Energy Based Microgrids in Remote Islands of Developing Countries: A Case Study in Bangladesh. <i>Energies</i> , <b>2022</b> , 15, 1084	3.1	3
524	Controlled V2Gs and battery integration into residential microgrids: Economic and environmental impacts. <i>Energy Conversion and Management</i> , <b>2022</b> , 253, 115171	10.6	1
523	A Game Theory Approach Using the TLBO Algorithm for Generation Expansion Planning by Applying Carbon Curtailment Policy. <i>Energies</i> , <b>2022</b> , 15, 1172	3.1	1
522	Independent or complementary power system configuration: A decision making approach for sustainable electrification of an urban environment in Sierra Leone. <i>Energy</i> , <b>2022</b> , 239, 122310	7.9	1
521	An Optimized and Outage-resilient Energy Management Framework for Multi-carrier Energy Microgrids Integrating Demand Response. <i>IEEE Transactions on Industry Applications</i> , <b>2022</b> , 1-1	4.3	3
520	Religious Principles for the Development of Energy Investments. <i>Contributions To Finance and Accounting</i> , <b>2022</b> , 195-204		
519	Application Strategies of Model Predictive Control for the Design and Operations of Renewable Energy-Based Microgrid: A Survey. <i>Electronics (Switzerland)</i> , <b>2022</b> , 11, 554	2.6	3
518	Integration of Renewable Based Distributed Generation for Distribution Network Expansion Planning. <i>Energies</i> , <b>2022</b> , 15, 1378	3.1	2
517	An Employee Competency Framework in a Welfare Organization. <i>Sustainability</i> , <b>2022</b> , 14, 2397	3.6	0
516	Non-Symmetrical (NS) Reconfiguration Techniques to Enhance Power Generation Capability of Solar PV System. <i>Energies</i> , <b>2022</b> , 15, 2124	3.1	0
515	Microgrid Emergence, Integration, and Influence on the Future Energy Generation Equilibrium: A Review. <i>Electronics (Switzerland)</i> , <b>2022</b> , 11, 791	2.6	1
514	Active and Reactive Power Management in the Smart Distribution Network Enriched with Wind Turbines and Photovoltaic Systems. <i>Sustainability</i> , <b>2022</b> , 14, 4273	3.6	1
513	Improvement of distribution networks performance using renewable energy sources based hybrid optimization techniques. <i>Ain Shams Engineering Journal</i> , <b>2022</b> , 13, 101786	4.4	0

512	Multi-energy Microgrids Incorporating EV Integration: Optimal Design and Resilient Operation. <i>IEEE Transactions on Smart Grid</i> , <b>2022</b> , 1-1	10.7	2
511	Mixed-Integer Linear Programming for Decentralized Multi-Carrier Optimal Energy Management of a Micro-Grid. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 3262	2.6	1
510	A simulation study of techno-economics and resilience of the solar PV irrigation system against grid outages.. <i>Environmental Science and Pollution Research</i> , <b>2022</b> , 1	5.1	1
509	Exploring UTAUT Model in Mobile 4.5G Service: Moderating Social Economic Effects of Gender and Awareness. <i>Social Sciences</i> , <b>2022</b> , 11, 187	1.8	1
508	An Energy-Efficient Start-Up Strategy for Large Variable Speed Hydro Pump Turbine Equipped with Doubly Fed Asynchronous Machine. <i>Energies</i> , <b>2022</b> , 15, 3138	3.1	0
507	Green Synthesis of Silver Oxide Nanoparticles for Photocatalytic Environmental Remediation and Biomedical Applications. <i>Metals</i> , <b>2022</b> , 12, 769	2.3	13
506	Hardware Implementation of Novel Shade Dispersion PV Reconfiguration Technique to Enhance Maximum Power under Partial Shading Conditions. <i>Energies</i> , <b>2022</b> , 15, 3515	3.1	0
505	Novel H6 Transformerless Inverter for Grid Connected Photovoltaic System to Reduce the Conduction Loss and Enhance Efficiency. <i>Energies</i> , <b>2022</b> , 15, 3789	3.1	0
504	Effect of the COVID-19 Pandemic on Renewable Energy Firm Profitability and Capitalization. <i>Sustainability</i> , <b>2022</b> , 14, 6870	3.6	0
503	Optimal Sizing and Operation of Microgrid in a Small Island Considering Advanced Direct Load Control and Low Carbon Emission <b>2021</b> ,		1
502	Resilience-aware Optimal Design and Energy Management Scheme of Multi-energy Microgrids <b>2021</b> ,		2
501	Predicting Volatility Index According to Technical Index and Economic Indicators on the Basis of Deep Learning Algorithm. <i>Sustainability</i> , <b>2021</b> , 13, 14011	3.6	22
500	Investigation of Home Energy Management with Advanced Direct Load Control and Optimal Scheduling of Controllable Loads. <i>Energies</i> , <b>2021</b> , 14, 7314	3.1	18
499	Energy and Environment Efficiencies Towards Contributing to Global Sustainability <b>2021</b> , 1-13		
498	A Concise Overview of Energy Development Within Sustainability Requirements <b>2021</b> , 15-27		
497	Optimal Merging of Transportation System Using Renewable Energy-Based Supply for Sustainable Development <b>2021</b> , 47-63		
496	Smart and Sustainable Township: An Overview <b>2021</b> , 65-80		0
495	An Empirical Analysis of Sustainability Indicators in an Administrative Complex Design from Urban Planning Perspective <b>2021</b> , 81-99		

494	Distributed Generation Model for Achieving Environmental Scenario: Loss Reduction and Efficiency Improvement <b>2021</b> , 101-112		
493	Optimal Sizing of Hybrid Microgrid in a Remote Island Considering Advanced Direct Load Control for Demand Response and Low Carbon Emission. <i>Energies</i> , <b>2021</b> , 14, 7599	3.1	0
492	Optimal Hybrid PV Array Topologies to Maximize the Power Output by Reducing the Effect of Non-Uniform Operating Conditions. <i>Electronics (Switzerland)</i> , <b>2021</b> , 10, 3014	2.6	2
491	On the Relationship between Oil and Exchange Rates of Oil-Exporting and Oil-Importing Countries: From the Great Recession Period to the COVID-19 Era. <i>Energies</i> , <b>2021</b> , 14, 8046	3.1	32
490	Analysis of Hybrid Grid-Connected Renewable Power Generation for Sustainable Electricity Supply in Sierra Leone. <i>Sustainability</i> , <b>2021</b> , 13, 11435	3.6	17
489	Economic Emission Load Dispatch Problem with Valve-Point Loading Using a Novel Quasi-Oppositional-Based Political Optimizer. <i>Electronics (Switzerland)</i> , <b>2021</b> , 10, 2596	2.6	1
488	Applicable Smart City Strategies to Ensure Energy Efficiency and Renewable Energy Integration in Poor Cities: Kabul Case Study. <i>Sustainability</i> , <b>2021</b> , 13, 11984	3.6	3
487	Cryptocurrency Open Innovation Payment System: Comparative Analysis of Existing Cryptocurrencies. <i>Journal of Open Innovation: Technology, Market, and Complexity</i> , <b>2021</b> , 7, 102	3.7	4
486	A New Stage in the Evolution of Cryptocurrency Markets: Analysis by Hurst Method <b>2021</b> , 35-45		27
485	A Comparative Design of a Campus Microgrid Considering a Multi-Scenario and Multi-Objective Approach. <i>Energies</i> , <b>2021</b> , 14, 2853	3.1	33
484	Solid-State DC Circuit Breakers and Their Comparison in Modular Multilevel Converter Based-HVDC Transmission System. <i>Electronics (Switzerland)</i> , <b>2021</b> , 10, 1204	2.6	8
483	Unbalanced Voltage Compensation with Optimal Voltage Controlled Regulators and Load Ratio Control Transformer. <i>Energies</i> , <b>2021</b> , 14, 2997	3.1	4
482	Energy Management System Optimization of Drug Store Electric Vehicles Charging Station Operation. <i>Sustainability</i> , <b>2021</b> , 13, 6163	3.6	5
481	Multi-Attribute Decision-Making Approach for a Cost-Effective and Sustainable Energy System Considering Weight Assignment Analysis. <i>Sustainability</i> , <b>2021</b> , 13, 5615	3.6	2
480	LEED Scores of Residential Buildings in Poor Cities: Kabul City Case. <i>Sustainability</i> , <b>2021</b> , 13, 6959	3.6	3
479	A Framework for Integration of Smart and Sustainable Energy Systems in Urban Planning Processes of Low-Income Developing Countries: Afghanistan Case. <i>Sustainability</i> , <b>2021</b> , 13, 8428	3.6	1
478	Optimum coordination of centralized and distributed renewable power generation incorporating battery storage system into the electric distribution network. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2021</b> , 125, 106458	5.1	31
477	Interconnected standalone DC microgrid fault protection based on Self-Adaptive DC fault current limiter with hybrid solid state circuit breaker. <i>AIMS Energy</i> , <b>2021</b> , 9, 991-1008	1.8	1

476	Role of Negative Interest Rates for Energy Assets Pricing in Financial Markets. <i>Advances in Environmental Engineering and Green Technologies Book Series</i> , <b>2021</b> , 107-119	0.4	
475	Green Building Efficiency and Sustainability Indicators <b>2021</b> , 196-212		
474	Photocatalytic Applications of Metal Oxides for Sustainable Environmental Remediation. <i>Metals</i> , <b>2021</b> , 11, 80	2.3	78
473	Analysing integration issues of the microgrid system with utility grid network. <i>International Journal of Emerging Electric Power Systems</i> , <b>2021</b> , 22, 113-127	1.4	3
472	Optimal sizing of a residential microgrid in Egypt under deterministic and stochastic conditions with PV/WG/Biomass Energy integration. <i>AIMS Energy</i> , <b>2021</b> , 9, 483-515	1.8	3
471	INTRODUCTION OF BIOFUELS AS A WAY OF SOLVING ECOLOGICAL PROBLEMS. <i>International Journal of Energy Economics and Policy</i> , <b>2021</b> , 11, 187-193	1.5	9
470	Assessing the Techno-Economic Impact of Derating Factors on Optimally Tilted Grid-Tied Photovoltaic Systems. <i>Energies</i> , <b>2021</b> , 14, 1044	3.1	6
469	Enhancing the Power Quality of the Grid Interactive Solar Photovoltaic-Electric Vehicle System. <i>World Electric Vehicle Journal</i> , <b>2021</b> , 12, 98	2.5	4
468	Post-2000 Building Industry in Kabul City from Sustainability Perspective. <i>Sustainability</i> , <b>2021</b> , 13, 7833	3.6	0
467	A Forefront Framework for Sustainable Aquaponics Modeling and Design. <i>Sustainability</i> , <b>2021</b> , 13, 9313	3.6	28
466	A Brief Survey on Important Interconnection Standards for Photovoltaic Systems and Electric Vehicles. <i>World Electric Vehicle Journal</i> , <b>2021</b> , 12, 117	2.5	1
465	A Quasi-Oppositional Heap-Based Optimization Technique for Power Flow Analysis by Considering Large Scale Photovoltaic Generator. <i>Energies</i> , <b>2021</b> , 14, 5382	3.1	0
464	A review on energy efficiency for pathetic environmental trends mitigation <b>2021</b> , 2, 1-8		2
463	Dynamic Voltage Stability Assessment in Remote Island Power System with Renewable Energy Resources and Virtual Synchronous Generator. <i>Energies</i> , <b>2021</b> , 14, 5851	3.1	0
462	Investigation on the Optical Design and Performance of a Single-Axis-Tracking Solar Parabolic trough Collector with a Secondary Reflector. <i>Sustainability</i> , <b>2021</b> , 13, 9918	3.6	2
461	Online Learning-Based ANN Controller for a Grid-Interactive Solar PV System. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 8712	2.6	0
460	Study and analysis of voltage source converter control stability for HVDC system using different control techniques. <i>Ain Shams Engineering Journal</i> , <b>2021</b> , 12, 2763-2779	4.4	1
459	Performance assessment of a hybrid complementary power system for sustainable electrification: A case study. <i>Sustainable Cities and Society</i> , <b>2021</b> , 76, 103412	10.1	4

458	Optimal probabilistic location of DGs using Monte Carlo simulation based different bio-inspired algorithms. <i>Ain Shams Engineering Journal</i> , <b>2021</b> , 12, 2735-2762	4.4	5
457	Optimal and economic operation of microgrids to leverage resilience benefits during grid outages. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2021</b> , 132, 107137	5.1	14
456	Resilience-Oriented Dispatch of Microgrids Considering Grid Interruptions. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2021</b> , 31, 1-5	1.8	6
455	Optimal multi-objective sizing of a residential microgrid in Egypt with different ToU demand response percentages. <i>Sustainable Cities and Society</i> , <b>2021</b> , 75, 103293	10.1	4
454	Optimal Design and Performance Analysis of a Hybrid Off-Grid Renewable Power System Considering Different Component Scheduling, PV Modules, and Solar Tracking Systems. <i>IEEE Access</i> , <b>2021</b> , 9, 64393-64413	3.5	10
453	Optimal sizing and operation for microgrid with renewable energy considering two types demand response. <i>Journal of Renewable and Sustainable Energy</i> , <b>2020</b> , 12, 065901	2.5	7
452	A Systematic Review of Metal Oxide Applications for Energy and Environmental Sustainability. <i>Metals</i> , <b>2020</b> , 10, 1604	2.3	67
451	A strategic-integrated approach for sustainable energy deployment. <i>Energy Reports</i> , <b>2020</b> , 6, 40-44	4.6	15
450	Challenges and prospects of Nigeria's sustainable energy transition with lessons from other countries experiences. <i>Energy Reports</i> , <b>2020</b> , 6, 993-1009	4.6	25
449	Efficient Energy Delivery System of the CHP-PV Based Microgrids with the Economic Feasibility Study. <i>International Journal of Emerging Electric Power Systems</i> , <b>2020</b> , 21,	1.4	7
448	Harnessing demand-side management benefit towards achieving a 100% renewable energy microgrid. <i>Energy Reports</i> , <b>2020</b> , 6, 680-685	4.6	9
447	A Contemporary Novel Classification of Voltage Stability Indices. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 1639	2.6	14
446	A Multi-Objective Optimization Approach towards a Proposed Smart Apartment with Demand-Response in Japan. <i>Energies</i> , <b>2020</b> , 13, 127	3.1	17
445	Optimizing matrix-matrix multiplication on intel's advanced vector extensions multicore processor. <i>Ain Shams Engineering Journal</i> , <b>2020</b> , 11, 1179-1190	4.4	3
444	Nature-inspired algorithms for feed-forward neural network classifiers: A survey of one decade of research. <i>Ain Shams Engineering Journal</i> , <b>2020</b> , 11, 659-675	4.4	30
443	Islanding operation scheme for DC microgrid utilizing pseudo Droop control of photovoltaic system. <i>Energy for Sustainable Development</i> , <b>2020</b> , 55, 95-104	5.4	18
442	Demand Response Economic Assessment with the Integration of Renewable Energy for Developing Electricity Markets. <i>Sustainability</i> , <b>2020</b> , 12, 2653	3.6	8
441	Analysis of Techno-Economic-Environmental Suitability of an Isolated Microgrid System Located in a Remote Island of Bangladesh. <i>Sustainability</i> , <b>2020</b> , 12, 2880	3.6	29

440	Optimal Control and Placement of Step Voltage Regulator for Voltage Unbalance Improvement and Loss Minimization in Distribution System <b>2020</b> ,		2
439	Optimal Operation of Resilient Microgrids During Grid Outages <b>2020</b> ,		3
438	A Novel Demand Side Management by Minimizing Cost Deviation. <i>Advances in Science, Technology and Engineering Systems</i> , <b>2020</b> , 5, 262-268	0.3	
437	Reliability Improvement of Radial Distribution System by Reconfiguration. <i>Advances in Science, Technology and Engineering Systems</i> , <b>2020</b> , 5, 472-480	0.3	0
436	M-Shape PV Arrangement for Improving Solar Power Generation Efficiency. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 537	2.6	1
435	Energy related implications for clean, livable, and smart Kabul: A policy recommendation for the energy sector and urban sector of Afghanistan <b>2020</b> , 1, 16-19		3
434	Green Building Efficiency and Sustainability Indicators. <i>Advances in Civil and Industrial Engineering Book Series</i> , <b>2020</b> , 128-145	0.5	6
433	Load frequency control for renewable energy sources for isolated power system by introducing large scale PV and storage battery. <i>Energy Reports</i> , <b>2020</b> , 6, 1597-1603	4.6	4
432	Integrated approach for optimal techno-economic planning for high renewable energy-based isolated microgrid considering cost of energy storage and demand response strategies. <i>Energy Conversion and Management</i> , <b>2020</b> , 215, 112917	10.6	49
431	Comparative analysis of a new VSC-optimal power flow formulation for power system security planning. <i>International Transactions on Electrical Energy Systems</i> , <b>2020</b> , 30, e12250	2.2	4
430	TCSC with auxiliary controls based voltage and reactive power controls on grid power system. <i>Ain Shams Engineering Journal</i> , <b>2020</b> , 11, 587-609	4.4	5
429	Energy Storage System Analysis Review for Optimal Unit Commitment. <i>Energies</i> , <b>2020</b> , 13, 158	3.1	14
428	A Resonant Hybrid DC Circuit Breaker for Multi-Terminal HVDC Systems. <i>Sustainability</i> , <b>2020</b> , 12, 7771	3.6	3
427	A coherent strategy for peak load shaving using energy storage systems. <i>Journal of Energy Storage</i> , <b>2020</b> , 32, 101823	7.8	12
426	Optimization of Voltage Unbalance Compensation by Smart Inverter. <i>Energies</i> , <b>2020</b> , 13, 4623	3.1	11
425	Water Cycle Algorithm for Probabilistic Planning of Renewable Energy Resource, Considering Different Load Models. <i>Energies</i> , <b>2020</b> , 13, 5800	3.1	2
424	A Hybrid Fault Recognition Algorithm Using Stockwell Transform and Wigner Distribution Function for Power System Network with Solar Energy Penetration. <i>Energies</i> , <b>2020</b> , 13, 3519	3.1	18
423	Incremental Conductance Based Particle Swarm Optimization Algorithm for Global Maximum Power Tracking of Solar-PV under Nonuniform Operating Conditions. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 4575	2.6	15

4 <sup>22</sup>	Output Control of Three-Axis PMSG Wind Turbine Considering Torsional Vibration Using H Infinity Control. <i>Energies</i> , <b>2020</b> , 13, 3474	3.1	4
4 <sup>21</sup>	Optimal Sizing of a Real Remote Japanese Microgrid with Sea Water Electrolysis Plant Under Time-Based Demand Response Programs. <i>Energies</i> , <b>2020</b> , 13, 3666	3.1	9
4 <sup>20</sup>	Distributed Generators Optimization Based on Multi-Objective Functions Using Manta Rays Foraging Optimization Algorithm (MRFO). <i>Energies</i> , <b>2020</b> , 13, 3847	3.1	14
4 <sup>19</sup>	Multi-variant differential evolution algorithm for feature selection. <i>Scientific Reports</i> , <b>2020</b> , 10, 17261	4.9	7
4 <sup>18</sup>	Operation of conventional and unconventional energy sources to drive a reverse osmosis desalination plant in Sinai Peninsula, Egypt. <i>Renewable Energy</i> , <b>2020</b> , 145, 141-152	8.1	30
4 <sup>17</sup>	Performance Evaluation of Probabilistic Methods Based on Bootstrap and Quantile Regression to Quantify PV Power Point Forecast Uncertainty. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2020</b> , 31, 1134-1144	10.3	19
4 <sup>16</sup>	Optimum design of hybrid wind/PV energy system for remote area. <i>Ain Shams Engineering Journal</i> , <b>2020</b> , 11, 11-23	4.4	42
4 <sup>15</sup>	A MODA and MODE Comparison for Optimal Allocation of Distributed Generations with Different Load Levels. <i>Sustainability</i> , <b>2019</b> , 11, 5323	3.6	6
4 <sup>14</sup>	The Road Ahead for Municipal Solid Waste Management in the 21st Century: A Novel-standardized Simulated Paradigm. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2019</b> , 291, 012009	0.3	9
4 <sup>13</sup>	A sustainable microgrid: A sustainability and management-oriented approach. <i>Energy Procedia</i> , <b>2019</b> , 159, 160-167	2.3	16
4 <sup>12</sup>	Multi-Objective Optimal Capacity Planning for 100% Renewable Energy-Based Microgrid Incorporating Cost of Demand-Side Flexibility Management. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 3855 <sup>2.6</sup>		12
4 <sup>11</sup>	A Multi-Objective Framework to Improve Voltage Stability in A Distribution Network. <i>International Journal of Emerging Electric Power Systems</i> , <b>2019</b> , 20,	1.4	3
4 <sup>10</sup>	An Economic Analysis of Demand Side Management Considering Interruptible Load and Renewable Energy Integration: A Case Study of Freetown Sierra Leone. <i>Sustainability</i> , <b>2019</b> , 11, 2828	3.6	15
4 <sup>09</sup>	Optimum Capacity and Placement of Storage Batteries Considering Photovoltaics. <i>Sustainability</i> , <b>2019</b> , 11, 2556	3.6	4
4 <sup>08</sup>	A novel transdisciplinary paradigm for municipal solid waste to energy. <i>Journal of Cleaner Production</i> , <b>2019</b> , 233, 880-892	10.3	20
4 <sup>07</sup>	Optimal Sizing of Multiple Renewable Energy Resources and PV Inverter Reactive Power Control Encompassing Environmental, Technical, and Economic Issues. <i>IEEE Systems Journal</i> , <b>2019</b> , 13, 3026-3037 <sup>4.3</sup>		22
4 <sup>06</sup>	Microgrid Planning and Design: Resilience to Sustainability <b>2019</b> ,		16
4 <sup>05</sup>	A Multi-Criteria Decision Maker for Grid-Connected Hybrid Renewable Energy Systems Selection Using Multi-Objective Particle Swarm Optimization. <i>Sustainability</i> , <b>2019</b> , 11, 1188	3.6	27

404	Security-constrained optimal utility-scale solar PV investment planning for weak grids: Short reviews and techno-economic analysis. <i>Applied Energy</i> , <b>2019</b> , 245, 16-30	10.7	20
403	A Recap of Voltage Stability Indices in the Past Three Decades. <i>Energies</i> , <b>2019</b> , 12, 1544	3.1	31
402	Static voltage stability improvement with battery energy storage considering optimal control of active and reactive power injection. <i>Electric Power Systems Research</i> , <b>2019</b> , 172, 303-312	3.5	28
401	Optimal multi-configuration and allocation of SVR, capacitor, centralised wind farm, and energy storage system: a multi-objective approach in a real distribution network. <i>IET Renewable Power Generation</i> , <b>2019</b> , 13, 762-773	2.9	13
400	Fast quasi-static time-series analysis and reactive power control of unbalanced distribution systems. <i>International Transactions on Electrical Energy Systems</i> , <b>2019</b> , 29, e2673	2.2	11
399	Optimal Unit Commitment with Concentrated Solar Power and Thermal Energy Storage in Afghanistan Electrical System. <i>International Journal of Emerging Electric Power Systems</i> , <b>2019</b> , 20,	1.4	1
398	A Real Distribution Network Voltage Regulation Incorporating Auto-Tap-Changer Pole Transformer Multiobjective Optimization. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 2813	2.6	6
397	Stochastic Unit Commitment and Optimal Power Trading Incorporating PV Uncertainty. <i>Sustainability</i> , <b>2019</b> , 11, 4504	3.6	4
396	Efficient Energy-Management System Using A Hybrid Transactive-Model Predictive Control Mechanism for Prosumer-Centric Networked Microgrids. <i>Sustainability</i> , <b>2019</b> , 11, 5436	3.6	4
395	Optimal Consumer Efforts and Operational Costs Based Analysis for a Smart Grid. <i>Electric Power Components and Systems</i> , <b>2019</b> , 47, 1203-1217	1	1
394	Generation expansion planning considering renewable energy integration and optimal unit commitment: A case study of Afghanistan. <i>AIMS Energy</i> , <b>2019</b> , 7, 441-464	1.8	6
393	Multi-objective time-variant optimum automatic and fixed type of capacitor bank allocation considering minimization of switching steps. <i>AIMS Energy</i> , <b>2019</b> , 7, 792-818	1.8	6
392	Transients outrush current analysis and mitigation: A Case study of Afghanistan North East power system. <i>AIMS Energy</i> , <b>2019</b> , 7, 493-506	1.8	
391	Low-Voltage Solid-State DC Breaker for Fault Protection Applications in Isolated DC Microgrid Cluster. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 723	2.6	11
390	Data Fusion Based Hybrid Deep Neural Network Method for Solar PV Power Forecasting <b>2019</b> ,		2
389	Voltage Security-Constrained Optimal Generation Rescheduling for Available Transfer Capacity Enhancement in Deregulated Electricity Markets. <i>Energies</i> , <b>2019</b> , 12, 4371	3.1	3
388	Fault Ride-Through Capability Enhancement For Grid-Connected Permanent Magnet Synchronous Generator Driven by Wind Turbines <b>2019</b> ,		9
387	Assessing the Techno-Economic Benefits of Flexible Demand Resources Scheduling for Renewable EnergyBased Smart Microgrid Planning. <i>Future Internet</i> , <b>2019</b> , 11, 219	3.3	7

386	Multi-Objective Optimization of a Stand-alone Hybrid PV/wind/battery/diesel Micro-grid <b>2019</b> ,		1
385	Solar PV Power Prediction Using A New Approach Based on Hybrid Deep Neural Network <b>2019</b> ,		5
384	Demand-side Fuel-cells and Controllable Loads to Reduce Operational Costs of Micro-grid through Optimal Unit Commitment <b>2019</b> ,		1
383	Optimal Scheduling Method of Controllable Loads in Smart Home Considering Re-Forecast and Re-Plan for Uncertainties. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 4064	2.6	1
382	Meta-Heuristic BPSO Based Voltage Profile Enhancement in Radial Distribution System Through Network Reconfiguration. <i>International Journal of Emerging Electric Power Systems</i> , <b>2019</b> , 20,	1.4	1
381	Optimal Allocation of Hybrid Renewable Energy System by Multi-Objective Water Cycle Algorithm. <i>Sustainability</i> , <b>2019</b> , 11, 6550	3.6	15
380	Centralised multi-objective integration of wind farm and battery energy storage system in real-distribution network considering environmental, technical and economic perspective. <i>IET Generation, Transmission and Distribution</i> , <b>2019</b> , 13, 5207-5217	2.5	14
379	Technical and economic performance evaluation for efficient capacitors sizing and placement in a real distribution network <b>2019</b> ,		2
378	Gas-to-electricity investment planning for power system stability improvement and environmental sustainability in Nigeria. <i>E3S Web of Conferences</i> , <b>2019</b> , 120, 02005	0.5	
377	Load Frequency Control Design for Two Area Interconnected Power System with DFIG Based Wind Turbine. <i>International Journal of Emerging Electric Power Systems</i> , <b>2019</b> , 20,	1.4	1
376	Multiobjective mix generation planning considering utility-scale solar PV system and voltage stability: Nigerian case study. <i>Electric Power Systems Research</i> , <b>2019</b> , 168, 269-282	3.5	21
375	A managed framework for energy-efficient building. <i>Journal of Building Engineering</i> , <b>2019</b> , 21, 120-128	5.2	38
374	Optimal Thermal Unit Commitment for Solving Duck Curve Problem by Introducing CSP, PSH and Demand Response. <i>IEEE Access</i> , <b>2018</b> , 6, 4834-4844	3.5	41
373	Multi-Terminal High Voltage Direct Current Transmission System with DC Resonant Semiconductor Breakers. <i>International Journal of Emerging Electric Power Systems</i> , <b>2018</b> , 19,	1.4	2
372	Critical Boundary Index (CBI) based on active and reactive power deviations. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2018</b> , 100, 50-57	5.1	23
371	Optimal sizing and placement of rooftop solar photovoltaic at Kabul city real distribution network. <i>IET Generation, Transmission and Distribution</i> , <b>2018</b> , 12, 303-309	2.5	22
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367	Control strategy of PMSG based wind energy conversion system under strong wind conditions. <i>Energy for Sustainable Development</i> , <b>2018</b> , 45, 211-218	5.4	14
366	Hybrid Genetic Algorithm Fuzzy-Based Control Schemes for Small Power System with High-Penetration Wind Farms. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 373	2.6	13
365	Multi objective unit commitment with voltage stability and PV uncertainty. <i>Applied Energy</i> , <b>2018</b> , 228, 618-623	10.7	35
364	Load Frequency Control for Renewable Energy Sources for Isolated Power System <b>2018</b> ,		1
363	The Role of ICT in Corruption Elimination: A Holistic Approach <b>2018</b> ,		4
362	Operational Cost Based UC by Introducing HCSP in Case of PVs Power Uncertainty <b>2018</b> ,		1
361	Optimum Operation Plan for Multiple Existing EV Charging Stations <b>2018</b> ,		2
360	Grid connected wind energy conversion system based on finite-set model predictive control. <i>International Journal of Power Electronics</i> , <b>2018</b> , 9, 366	0.2	0
359	Load Frequency Control Using Demand Response and Storage Battery by Considering Renewable Energy Sources. <i>Energies</i> , <b>2018</b> , 11, 3412	3.1	3
358	An Optimization Analysis of Cross-border Electricity Trading between Afghanistan and its Neighbor Countries. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 25-30	0.7	4
357	Optimal Sizing of Grid-connected Renewable Energy System in Freetown Sierra Leone. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 191-196	0.7	5
356	Unit Commitment Considering Uncertainty of Price-Based Demand Response <b>2018</b> ,		1
355	Robust Load Frequency Control Schemes in Power System Using Optimized PID and Model Predictive Controllers. <i>Energies</i> , <b>2018</b> , 11, 3070	3.1	9
354	A Bi-Level Evolutionary Optimization for Coordinated Transmission Expansion Planning. <i>IEEE Access</i> , <b>2018</b> , 6, 48455-48477	3.5	50
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346	Optimum capacity of energy storage system considering solar radiation forecast error and demand response <b>2017</b> ,		1
345	Multi-objective optimal operation with demand management and voltage stability <b>2017</b> ,		3
344	Energy management systems for hybrid distributed generation sources in grid connected and stand-alone micro-grids. <i>Journal of Renewable and Sustainable Energy</i> , <b>2017</b> , 9, 065301	2.5	9
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342	Afghanistan's aspirations for energy independence: Water resources and hydropower energy. <i>Renewable Energy</i> , <b>2017</b> , 113, 1276-1287	8.1	22
341	Experimental analysis of active power control of the PV system using smart PV inverter for the smart grid system <b>2017</b> ,		2
340	Distributed voltage control method using Volt-Var control curve of photovoltaic inverter for a smart power grid system <b>2017</b> ,		4
339	Optimal sizing of PV-wind-battery power system considering demand response programs <b>2017</b> ,		3
338	Voltage stability improvement by demand response <b>2017</b> ,		1
337	Resonant DC circuit breaker in MMC-HVDC transmission system <b>2017</b> ,		2
336	Small signal modeling and control of PV based QZSI for grid connected applications <b>2017</b> ,		1
335	Modeling and control of a PV based QZSI for grid connected applications <b>2017</b> ,		3
334	Duck curve problem solving strategies with thermal unit commitment by introducing pumped storage hydroelectricity & renewable energy <b>2017</b> ,		3
333	Multi-Objective Optimization for Equipment Capacity in Off-Grid Smart House. <i>Sustainability</i> , <b>2017</b> , 9, 117	3.6	6

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318	Operational aspects of distribution systems with massive DER penetrations <b>2016</b> , 51-76		4
317	Stability problems of distributed generators <b>2016</b> , 261-281		1
316	Optimal Operation and Management of Smart Grid System with LPC and BESS in Fault Conditions. <i>Sustainability</i> , <b>2016</b> , 8, 1282	3.6	4
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312	A coordinated approach for frequency control of zero emission based smart PV-wind-battery power system <b>2016</b> ,		1
311	A method to reduce DC-link overvoltage of PMSG based WECS during LVRT <b>2016</b> ,		4
310	System frequency control using emergency demand response in power systems with large-scale Renewable Energy Sources <b>2016</b> ,		3
309	Voltage stability improvement by optimal active power and reactive power output control of storage battery system <b>2016</b> ,		6
308	Suppression of power system voltage and frequency fluctuations by decentralized controllable loads. <i>Journal of Renewable and Sustainable Energy</i> , <b>2016</b> , 8, 045905	2.5	3
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305	Voltage imbalance compensation by injecting active and reactive power using demand side inverter. <i>Journal of Renewable and Sustainable Energy</i> , <b>2016</b> , 8, 025102	2.5	3
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296	Real-time pricing based frequency control and smoothing of PV and WTG output power variations in islanded micro-grid <b>2015</b> ,		1
295	Active power control of direct current smart house using electric vehicles and controllable loads. <i>Journal of Renewable and Sustainable Energy</i> , <b>2015</b> , 7, 063129	2.5	1
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289	A new strategy to quantify uncertainties of wavelet-GRNN-PSO based solar PV power forecasts using bootstrap confidence intervals <b>2015</b> ,		14
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266	Optimal scheduling method of controllable loads in smart house considering forecast error <b>2013</b> ,		3
265	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
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251	Simple maximum power extraction control for permanent magnet synchronous generator based wind energy conversion system <b>2012</b> ,		6
250	A study on optimum capacity of battery energy storage system for wind farm operation with wind power forecast data <b>2012</b> ,		7
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247	A novel hybrid approach based on wavelet transform and fuzzy ARTMAP network for predicting wind farm power production <b>2012</b> ,		8
246	Optimal operation of power systems with power players <b>2012</b> ,		3
245	Optimal Operation Strategy with using BESS and DGs in Distribution System. <i>Journal of International Council on Electrical Engineering</i> , <b>2012</b> , 2, 20-27	0.1	4
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232	Optimal operation method of wind farm with demand response <b>2012,</b>		1
231	Advanced Smart House with an electric vehicle <b>2012,</b>		1
230	Advanced Smart House <b>2012,</b>		3
229	Voltage stability assessment of photovoltaic energy systems with voltage control capabilities <b>2012,</b>		7
228	Optimal scheduling method in distribution system considering controllable loads <b>2012,</b>		3
227	Frequency control improvement in a PV-diesel hybrid power system with a virtual inertia controller <b>2012,</b>		3
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221	Optimal operation of controllable loads in DC smart house with EV <b>2012</b> ,		3
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210	Fuzzy control of MW-class PV generation to reduce frequency and tie-line power fluctuations in three control area power system <b>2011</b> ,		3
209	Optimum operation planning of controllable loads in smart house <b>2011</b> ,		1
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203	Frequency control in isolated island by using parallel operated battery systems applying $\mathcal{H}_\infty$ control theory based on droop characteristics. <i>IET Renewable Power Generation</i> , <b>2011</b> , 5, 160	2.9	72
202	Optimal Operation by Controllable Loads Based on Smart Grid Topology Considering Insolation Forecasted Error. <i>IEEE Transactions on Smart Grid</i> , <b>2011</b> , 2, 438-444	10.7	58
201	A new control methodology of wind turbine generators for frequency control of power system in isolated island. <i>Wind Energy</i> , <b>2011</b> , 14, 407-423	3.4	5
200	Optimal operation of thermal generating units and smart houses <b>2011</b> ,		1
199	Robust Position Control for Ultrasonic Motor Using Variable Structure System Observer in Non-linear Observer. <i>Electric Power Components and Systems</i> , <b>2011</b> , 39, 1769-1782	1	5
198	Cooperative control of interfaced inverter with PV system and existing voltage control devices considering forecasted error in distribution system <b>2011</b> ,		2
197	A control method for maximum power point tracking of a PMSG-based WECS using online parameter identification of wind turbine <b>2011</b> ,		8
196	A fuzzy-based output power smoothing of WECS using short-term ahead prediction of wind speed <b>2011</b> ,		4
195	Optimal voltage control in distribution systems using PV generators. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2011</b> , 33, 485-492	5.1	62
194	An integrated control method for a wind farm to reduce frequency deviations in a small power system. <i>Applied Energy</i> , <b>2011</b> , 88, 1049-1058	10.7	40
193	Control strategy for a distributed DC power system with renewable energy. <i>Renewable Energy</i> , <b>2011</b> , 36, 42-49	8.1	37
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191	A fuzzy based method for leveling output power fluctuations of photovoltaic-diesel hybrid power system. <i>Renewable Energy</i> , <b>2011</b> , 36, 1693-1703	8.1	30
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187	A Fuzzy-Logic Based Output Power Smoothing Method of WECS with Permanent Magnet Synchronous Generator using Inertia of Wind Turbine. <i>Journal of International Council on Electrical Engineering</i> , <b>2011</b> , 1, 309-316	0.1	7
186	Fuzzy quantum computation based thermal unit commitment strategy with solar-battery system injection <b>2011</b> ,		5
185	Control of MW-class PV generation to reduce frequency and tie-line power fluctuations in three control area power system <b>2011</b> ,		2
184	Optimal Planning Strategy for Large PV/Battery System Based on Long-Term Insolation Forecasting. <i>IEEJ Transactions on Electronics, Information and Systems</i> , <b>2011</b> , 131, 1665-1671	0.1	1
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181	Optimal energy storage size of thermal/wind power system using tabu search optimizer <b>2010</b> ,		2
180	Optimal operation strategy by battery energy storage systems in distribution system <b>2010</b> ,		6
179	A high quality power supply system with DC smart grid <b>2010</b> ,		15
178	Security constrained unit commitment strategy for wind/thermal units using Lagrangian relaxation based Particle Swarm Optimization <b>2010</b> ,		1
177	Optimal operation for DC smart-houses considering forecasted error <b>2010</b> ,		4
176	Output power smoothing of PMSG-based wind energy conversion system <b>2010</b> ,		6
175	Parameter Identification of Wind Turbine for Maximum Power-point Tracking Control. <i>Electric Power Components and Systems</i> , <b>2010</b> , 38, 603-614	1	10
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172	Next day price forecasting in deregulated market by combination of Artificial Neural Network and ARIMA time series models <b>2010</b> ,		1
171	Optimal operation of smart grid in isolated island <b>2010</b> ,		11

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157	Frequency and voltage control of small power systems by decentralized controllable loads <b>2009</b> ,		13
156	Next-day electricity price forecasting on deregulated power market <b>2009</b> ,		3
155	Wide-speed Range Operation of Interior Permanent Magnet Synchronous Motor with Parameter Identification. <i>Electric Power Components and Systems</i> , <b>2009</b> , 37, 847-865	1	6
154	Combination of artificial neural network and ARIMA time series models for short term price forecasting in deregulated market <b>2009</b> ,		5
153	Decentralized voltage control in distribution systems by controlling reactive power of inverters <b>2009</b> ,		9

152	Output Power Leveling of a Wind Generation System Using Inertia of a Wind Turbine. <i>International Journal of Emerging Electric Power Systems</i> , <b>2009</b> , 10,	1.4	6
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143	Smoothing control of generated power fluctuation of WTG using gain-scheduled control <b>2009</b> ,		1
142	A Control Method for Small Utility Connected Large PV System to Reduce Frequency Deviation Using a Minimal-Order Observer. <i>IEEE Transactions on Energy Conversion</i> , <b>2009</b> , 24, 520-528	5.4	18
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140	Frequency control strategy for parallel operated battery systems based on droop characteristics by applying H <sub>∞</sub> control theory <b>2009</b> ,		6
139	Installation effect by solar heater system using solar radiation forecasting <b>2009</b> ,		6
138	Study on optimum operation planning of wind farm/battery system using forecasted power data <b>2009</b> ,		5
137	A Fuzzy Control Based Coordinated Method for Isolated Power Utility Connected Clustered Photovoltaic Systems to Provide Frequency Control <b>2009</b> ,		2
136	A distributed DC power system in an isolated island <b>2009</b> ,		6
135	Frequency control by coordination control of WTG and battery using load estimation <b>2009</b> ,		15

134	Stable operation for distributed generators on distribution system using UPFC <b>2009</b> ,			1
133	Generation Scheduling of Thermal Units Integrated with Wind-Battery System Using a Fuzzy Modified Differential Evolution Approach <b>2009</b> ,			3
132	Frequency and voltage control of isolated island power systems by decentralized controllable loads <b>2009</b> ,			7
131	Wide-Speed-Range optimal PAM control for permanent magnet synchronous motor <b>2009</b> ,			2
130	A Coordinated Control Method for Leveling PV Output Power Fluctuations of PV/Diesel Hybrid Systems Connected to Isolated Power Utility. <i>IEEE Transactions on Energy Conversion</i> , <b>2009</b> , 24, 153-162	5-4		136
129	Output power leveling of wind generation system using inertia for PM synchronous generator <b>2009</b> ,			6
128	Frequency control by coordination control of wind turbine generator and battery using H <sub>∞</sub> control <b>2009</b> ,			4
127	Fuzzy unit commitment strategy integrated with solar energy system using a modified differential evolution approach <b>2009</b> ,			1
126	Next Day Price Forecasting in Deregulated Market by Combination of Artificial Neural Network and ARIMA Time Series Models. <i>IEEJ Transactions on Power and Energy</i> , <b>2009</b> , 129, 1267-1274		0.2	4
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119	A frequency control approach by decentralized generators and loads in power systems <b>2008</b> ,			6
118	Optimal Distribution Voltage Control and Coordination With Distributed Generation. <i>IEEE Transactions on Power Delivery</i> , <b>2008</b> , 23, 1236-1242		4-3	285
117	Coordinated control of battery energy storage system and diesel generator for isolated power system stabilization <b>2008</b> ,			6

116	Optimal control of voltage in distribution systems by voltage reference management <b>2008,</b>		1
115	Thermal unit commitment strategy with solar and wind energy systems using genetic algorithm operated particle swarm optimization <b>2008,</b>		8
114	A new control methodology of wind farm using short-term ahead wind speed prediction for load frequency control of power system <b>2008,</b>		9
113	Optimal control of distribution voltage profile by considering the number of operation of the distribution installations <b>2008,</b>		1
112	Application of neural network to 24-hour-ahead generating power forecasting for PV system <b>2008,</b>		17
111	A fuzzy based control method for isolated power utility connected PV-diesel hybrid system to reduce frequency deviation <b>2008,</b>		5
110	A minimal-order observer based coordinated control method for isolated power utility connected multiple PV systems to reduce frequency deviations <b>2008,</b>		2
109	Operation strategies for stability of gearless wind power generation systems <b>2008,</b>		9
108	Optimal coordinated voltage control in distribution system <b>2008,</b>		6
107	Coordinate control of wind turbine and battery in wind power generator system <b>2008,</b>		3
106	Output power leveling of wind generation system using inertia of wind turbine <b>2008,</b>		7
105	Output Power Leveling of Wind Farm Using Pitch-angle Control with Fuzzy Neural Network. <i>Electric Power Components and Systems</i> , <b>2008</b> , 36, 1048-1066	1	14
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93	Wide-speed-range optimal PAM control for permanent magnet synchronous motors <b>2007</b> ,		2
92	Two-fold Simulated Annealing Approach to Unit Commitment Scheduling. <i>Electric Power Components and Systems</i> , <b>2007</b> , 35, 337-357	1	2
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78	A Novel Approach to Forecast Electricity Price for PJM Using Neural Network and Similar Days Method. <i>IEEE Transactions on Power Systems, 2007, 22, 2058-2065</i>	7	141
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76	Application of Recurrent Neural Network to Short-Term-Ahead Generating Power Forecasting for Photovoltaic System. <i>IEEE Power Engineering Society General Meeting, 2007,</i>		48
75	Application of Neural Network to One-Day-Ahead 24 hours Generating Power Forecasting for Photovoltaic System <b>2007,</b>		52
74	A new method for smoothing output power fluctuations of PV system connected to small power utility <b>2007,</b>		4
73	Intelligent Optimal Control of Wind Power Generating System by a Complemented Linear Quadratic Gaussian Approach <b>2007,</b>		1
72	Output Power Coordination Control for Wind Farm in Small Power System <b>2007,</b>		5
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65	Application of Recurrent Neural Network to Long-Term-Ahead Generating Power Forecasting for Wind Power Generator <b>2006,</b>		24
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59	Absolutely Stochastic Simulated Annealing Approach to Large Scale Unit Commitment Problem. <i>Electric Power Components and Systems</i> , <b>2006</b> , 34, 619-637	1	9
58	Output levelling of renewable energy by electric double-layer capacitor applied for energy storage system. <i>IEEE Transactions on Energy Conversion</i> , <b>2006</b> , 21, 221-227	5.4	156
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