

Kwang Y Lee

List of Publications by Year in descending order

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171
papers

4,537
citations

147801

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181
times ranked

3763
citing authors

#	ARTICLE	IF	CITATIONS
1	Hybrid cross entropy cuckoo search algorithm for solving optimal power flow with renewable generators and controllable loads. <i>Optimal Control Applications and Methods</i> , 2023, 44, 508-532.	2.1	7
2	An Efficient Iterative Learning Predictive Functional Control for Nonlinear Batch Processes. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 4147-4160.	9.5	9
3	Large-scale wind farm control using distributed economic model predictive scheme. <i>Renewable Energy</i> , 2022, 181, 581-591.	8.9	27
4	Spatio-temporal wind speed prediction based on Clayton Copula function with deep learning fusion. <i>Renewable Energy</i> , 2022, 192, 526-536.	8.9	20
5	The NR-EGA for the EVRP Problem with the Electric Energy Consumption Model. <i>Energies</i> , 2022, 15, 3681.	3.1	3
6	Iterative Learning Model Predictive Control Based on Iterative Data-Driven Modeling. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021, 32, 3377-3390.	11.3	24
7	Fuel cell humidity modeling and control using cathode internal water content. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 9905-9917.	7.1	16
8	A Hierarchical Peer-to-Peer Energy Transaction Model Considering Prosumer's Green Energy Preference. <i>International Journal of Control, Automation and Systems</i> , 2021, 19, 311-317.	2.7	4
9	Robust Model Predictive Iterative Learning Control for Iteration-Varying-Reference Batch Processes. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021, 51, 4238-4250.	9.3	22
10	Coordinated Control Strategy of PMSG and Cascaded H-Bridge STATCOM in Dispersed Wind Farm for Suppressing Unbalanced Grid Voltage. <i>IEEE Transactions on Sustainable Energy</i> , 2021, 12, 349-359.	8.8	35
11	A Bidding-Based Peer-to-Peer Energy Transaction Model Considering the Green Energy Preference in Virtual Energy Community. <i>IEEE Access</i> , 2021, 9, 87410-87419.	4.2	21
12	Multi-Objective Optimization of Steam Power System Under Demand Uncertainty. <i>IEEE Access</i> , 2021, 9, 113130-113142.	4.2	2
13	Dynamic optimal power flow with cross entropy covariance matrix adaption evolutionary strategy for systems with electric vehicles and renewable generators. <i>International Journal of Energy Research</i> , 2021, 45, 10869-10881.	4.5	10
14	The mutual benefits of renewables and carbon capture: Achieved by an artificial intelligent scheduling strategy. <i>Energy Conversion and Management</i> , 2021, 233, 113856.	9.2	52
15	Power-carbon coordinated control of BFG-fired CCGT power plant integrated with solvent-based post-combustion CO2 capture. <i>Energy</i> , 2021, 226, 120435.	8.8	14
16	Deep-learning modeling and control optimization framework for intelligent thermal power plants: A practice on superheated steam temperature. <i>Korean Journal of Chemical Engineering</i> , 2021, 38, 1983-2002.	2.7	8
17	Incomplete information oriented optimal scheduling of multi-energy hub systems with thermal energy storage. <i>Journal of Energy Storage</i> , 2021, 42, 103062.	8.1	12
18	In-depth characteristic analysis and wide range optimal operation of fuel cell using multi-model predictive control. <i>Energy</i> , 2021, 234, 121226.	8.8	5

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19	Adaptive Elitist Genetic Algorithm With Improved Neighbor Routing Initialization for Electric Vehicle Routing Problems. IEEE Access, 2021, 9, 16661-16671.	4.2	15
20	Network and Reserve Constrained Economic Analysis of Conventional, Adjustable-Speed and Ternary Pumped-Storage Hydropower. Energies, 2020, 13, 4140.	3.1	4
21	An Economic Penalty Scheme for Optimal Parking Lot Utilization with EV Charging Requirements. Energies, 2020, 13, 6155.	3.1	5
22	Maximum Power Point Tracking and Voltage Regulation of Two-Stage Grid-Tied PV System Based on Model Predictive Control. Energies, 2020, 13, 1304.	3.1	18
23	Wind speed forecasting using deep neural network with feature selection. Neurocomputing, 2020, 397, 393-403.	5.9	66
24	Supplementary Control of Air-Fuel Ratio Using Dynamic Matrix Control for Thermal Power Plant Emission. Energies, 2020, 13, 226.	3.1	8
25	Improving Simultaneous Cooling and Power Load-Following Capability for MGT-CCP Using Coordinated Predictive Controls. Energies, 2019, 12, 1180.	3.1	3
26	Resilient wide-area multi-mode controller design based on Bat algorithm for power systems with renewable power generation and battery energy storage systems. IET Generation, Transmission and Distribution, 2019, 13, 1884-1894.	2.5	16
27	Nonlinear Predictive Control for a Boiler-Turbine Unit Based on a Local Model Network and Immune Genetic Algorithm. Sustainability, 2019, 11, 5102.	3.2	10
28	Stacked Auto-Encoder Modeling of an Ultra-Supercritical Boiler-Turbine System. Energies, 2019, 12, 4035.	3.1	11
29	A Comparison of the Dynamic Performance of Conventional and Ternary Pumped Storage Hydro. Energies, 2019, 12, 3513.	3.1	15
30	Water Pump Control: A Hybrid Data-Driven and Model-Assisted Active Disturbance Rejection Approach. Water (Switzerland), 2019, 11, 1066.	2.7	4
31	Autonomous Battery Swapping System and Methodologies of Electric Vehicles. Energies, 2019, 12, 667.	3.1	67
32	Flexible operation of coal fired power plant integrated with post combustion CO2 capture using model predictive control. International Journal of Greenhouse Gas Control, 2019, 82, 138-151.	4.6	23
33	Reinforced coordinated control of coal-fired power plant retrofitted with solvent based CO2 capture using model predictive controls. Applied Energy, 2019, 238, 495-515.	10.1	37
34	Maximizing Network Resilience against Malicious Attacks. Scientific Reports, 2019, 9, 2261.	3.3	14
35	Effects of fractional-order PI controller on delay margin in single-area delayed load frequency control systems. Journal of Modern Power Systems and Clean Energy, 2019, 7, 380-389.	5.4	31
36	An Ensemble Framework for Day-Ahead Forecast of PV Output Power in Smart Grids. IEEE Transactions on Industrial Informatics, 2019, 15, 4624-4634.	11.3	67

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37	Iterative tuning of modified uncertainty and disturbance estimator for time-delay processes: A data-driven approach. ISA Transactions, 2019, 84, 164-177.	5.7	8
38	Suitability of PV and Battery Storage in EV Charging at Business Premises. IEEE Transactions on Power Systems, 2018, 33, 4382-4396.	6.5	28
39	Nonlinear dynamic analysis and control design of a solvent-based post-combustion CO2 capture process. Computers and Chemical Engineering, 2018, 115, 397-406.	3.8	29
40	Accommodation Capacity for Wind Farm Based on the Static Security Constraints in Bulk Power Systems. , 2018, , .		0
41	Optimal Placement of Distributed Generations with Semidefinite Optimization Technique. , 2018, , .		2
42	A Robust Mixed-Integer Second-Order Cone Programming for Service Restoration of Distribution Network. , 2018, , .		1
43	A Sustainable Power Plant Control Strategy Based on Fuzzy Extended State Observer and Predictive Control. Sustainability, 2018, 10, 4824.	3.2	8
44	Data-driven oxygen excess ratio control for proton exchange membrane fuel cell. Applied Energy, 2018, 231, 866-875.	10.1	173
45	Impact of Road-Block on Peak-Load of Coupled Traffic and Energy Transportation Networks. Energies, 2018, 11, 1776.	3.1	6
46	Nonlinearity Analysis and Multi-Model Modeling of an MEA-Based Post-Combustion CO2 Capture Process for Advanced Control Design. Applied Sciences (Switzerland), 2018, 8, 1053.	2.5	4
47	Optimal Load-Tracking Operation of Grid-Connected Solid Oxide Fuel Cells through Set Point Scheduling and Combined L1-MPC Control. Energies, 2018, 11, 801.	3.1	16
48	Adjustable Robust Optimization Algorithm for Residential Microgrid Multi-Dispatch Strategy with Consideration of Wind Power and Electric Vehicles. Energies, 2018, 11, 2050.	3.1	15
49	Robust Estimation and Tracking of Power System Harmonics Using an Optimal Finite Impulse Response Filter. Energies, 2018, 11, 1811.	3.1	5
50	Coordinated Distributed MPC for Load Frequency Control of Power System With Wind Farms. IEEE Transactions on Industrial Electronics, 2017, 64, 5140-5150.	7.9	141
51	Direct energy balance based active disturbance rejection control for coal-fired power plant. ISA Transactions, 2017, 70, 486-493.	5.7	62
52	Hierarchical Decomposition for Betweenness Centrality Measure of Complex Networks. Scientific Reports, 2017, 7, 46491.	3.3	34
53	Optimal scheduling of distributed energy resources by modern heuristic optimization technique. , 2017, , .		5
54	Characterization of charging load for a large number of EV units in distribution grids. , 2017, , .		2

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55	A wind power integrated system based on a controllably inductive filtering and compensation method. , 2017, , .		1
56	Control of ultra-supercritical once-through boiler-turbine unit using MPC and ESO approaches. , 2017, , .		3
57	An improved penalty-factor based attractive and repulsive particle swarm optimization for nonconvex economic dispatch problems. , 2017, , .		2
58	A Combined Voltage Control Strategy for Fuel Cell. Sustainability, 2017, 9, 1517.	3.2	30
59	Stochastic Unit Commitment of Wind-Integrated Power System Considering Air-Conditioning Loads for Demand Response. Applied Sciences (Switzerland), 2017, 7, 1154.	2.5	12
60	Linear Formulation for Short-Term Operational Scheduling of Energy Storage Systems in Power Grids. Energies, 2017, 10, 207.	3.1	10
61	Stochastic Dynamic AC Optimal Power Flow Based on a Multivariate Short-Term Wind Power Scenario Forecasting Model. Energies, 2017, 10, 2138.	3.1	19
62	Optimal Dispatching of Active Distribution Networks Based on Load Equilibrium. Energies, 2017, 10, 2003.	3.1	5
63	Decentralized Fuzzy MPC on Spatial Power Control of a Large PHWR. IEEE Transactions on Nuclear Science, 2016, 63, 2343-2351.	2.0	23
64	Modified optimal power flow on storage devices and wind power integrated system. , 2016, , .		1
65	Disturbance rejection of superheated steam temperature in a utility boiler: A cascaded disturbance observer based control solution. , 2016, , .		3
66	Optimal disturbance rejection for PI controller with constraints on relative delay margin. ISA Transactions, 2016, 63, 103-111.	5.7	55
67	Data-Driven Disturbance Rejection Predictive Control for SCR Denitrification System. Industrial & Engineering Chemistry Research, 2016, 55, 5923-5930.	3.7	25
68	Distributed model predictive control for load frequency control with dynamic fuzzy valve position modelling for hydro-thermal power system. IET Control Theory and Applications, 2016, 10, 1653-1664.	2.1	57
69	Disturbance rejection of peak current-mode control for bidirectional battery charging. , 2016, , .		3
70	On Tuning and Practical Implementation of Active Disturbance Rejection Controller: A Case Study from a Regenerative Heater in a 1000 MW Power Plant. Industrial & Engineering Chemistry Research, 2016, 55, 6686-6695.	3.7	118
71	An Effective Nonlinear Multivariable HMPC for USC Power Plant Incorporating NFN-Based Modeling. IEEE Transactions on Industrial Informatics, 2016, 12, 555-566.	11.3	45
72	Robust ESS-Based Stabilizer Design for Damping Inter-Area Oscillations in Multimachine Power Systems. IEEE Transactions on Power Systems, 2016, 31, 1395-1406.	6.5	32

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73	Improved artificial bee colony based on orthogonal learning for optimal power flow. , 2015, , .		1
74	On performance recovery and bumpless switch of disturbance observer based control. , 2015, , .		0
75	Smart energy storage system for integration of PMSG-based wind power plant. , 2015, , .		2
76	Decentralized PI control with improved disturbance observer for power plant fluidized bed combustor. , 2015, , .		3
77	Fuzzy modeling and predictive control of superheater steam temperature for power plant. ISA Transactions, 2015, 56, 241-251.	5.7	65
78	Steam power plant configuration, design, and control. Wiley Interdisciplinary Reviews: Energy and Environment, 2015, 4, 537-563.	4.1	43
79	Heuristic optimization for wind energy integrated optimal power flow. , 2015, , .		3
80	Quasi-min-max Fuzzy MPC of UTSG Water<newline/> Level Based on Off-Line Invariant Set. IEEE Transactions on Nuclear Science, 2015, 62, 2266-2272.	2.0	31
81	Impact of Demand and Price Uncertainties on Customer-side Energy Storage System Operation with Peak Load Limitation. Electric Power Components and Systems, 2015, 43, 1872-1881.	1.8	18
82	Low-order robust damping controller design for large-scale PV power plants. , 2014, , .		4
83	Neural network inverse models of supercritical boiler unit for intelligent coordinated controller design. , 2014, , .		1
84	Wind Speed Prediction with high efficiency convex optimization Support Vector Machine. , 2014, , .		3
85	Small-Disturbance Angle Stability Control With High Penetration of Renewable Generations. IEEE Transactions on Power Systems, 2014, 29, 1463-1472.	6.5	31
86	Data-driven modeling and predictive control for boiler"turbine unit using fuzzy clustering and subspace methods. ISA Transactions, 2014, 53, 699-708.	5.7	91
87	Modeling, operation and control of wind turbine with direct drive PMSG connected to power grid. , 2014, , .		7
88	Data"driven modelling of a doubly fed induction generator wind turbine system based on neural networks. IET Renewable Power Generation, 2014, 8, 849-857.	3.1	26
89	Fuzzy modeling and stable model predictive tracking control of large-scale power plants. Journal of Process Control, 2014, 24, 1609-1626.	3.3	62
90	Determining PV Penetration for Distribution Systems With Time-Varying Load Models. IEEE Transactions on Power Systems, 2014, 29, 3048-3057.	6.5	247

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91	Fuzzy modeling and control of boiler-turbine unit using clustering and subspace method. , 2013, , .		0
92	Large-Scale PV Plant With a Robust Controller Considering Power Oscillation Damping. IEEE Transactions on Energy Conversion, 2013, 28, 106-116.	5.2	118
93	Comprehensive comparison of FACTS devices for exclusive loadability enhancement. IEEJ Transactions on Electrical and Electronic Engineering, 2013, 8, 7-18.	1.4	10
94	An Improved Multi-Objective Harmony Search for Optimal Placement of DGs in Distribution Systems. IEEE Transactions on Smart Grid, 2013, 4, 557-567.	9.0	244
95	Dynamic model analysis and control of a grid connected wind energy system integrated with a super-capacitor bank. , 2013, , .		2
96	Modeling and control of power conditioning system for grid-connected Fuel Cell power plant. , 2013, , .		1
97	Multi-Agent System implementation in JADE environment for power plant control. , 2013, , .		3
98	Wide-area measurement signal-based stabiliser for large-scale photovoltaic plants with high variability and uncertainty. IET Renewable Power Generation, 2013, 7, 614-622.	3.1	35
99	Design of robust power oscillation damping controller for large-scale PV plant. , 2012, , .		8
100	A modified Shuffled Frog Leaping algorithm for nonconvex Economic Dispatch problem. , 2012, , .		10
101	Design and control of a grid-connected three-phase 3-level NPC inverter for Building Integrated Photovoltaic systems. , 2012, , .		23
102	An improved Predictive Optimal Controller with elastic search space for steam temperature control of large-scale supercritical power unit. , 2012, , .		8
103	Impact Analysis of Wind Farms in the Jeju Island Power System. IEEE Systems Journal, 2012, 6, 134-139.	4.6	41
104	A wind farm configuration for load-following control and its application to primary frequency support. , 2011, , .		1
105	Web-based online real time reliability information system for composite power systems including wind turbine generators. , 2011, , .		0
106	Voltage transient analysis of a PMSG wind power system using controller-hardware-in-the loops. , 2011, , .		10
107	An Adaptive Dynamic Matrix Control With Fuzzy-Interpolated Step-Response Model for a Drum-Type Boiler-Turbine System. IEEE Transactions on Energy Conversion, 2011, 26, 393-401.	5.2	49
108	Pareto-Optimal Design of Damping Controllers Using Modified Artificial Immune Algorithm. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2011, 41, 240-250.	2.9	32

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109	A control configuration of wind farm for load-following and frequency support by considering the inertia issue. , 2011, , .		15
110	A self-adaptive fuzzy PI controller of power conditioning system for hybrid fuel-cell/turbine power plant. , 2011, , .		10
111	Multi-agent system based intelligent distributed control system for power plants. , 2011, , .		6
112	Power system stabilization using brain emotional learning based intelligent controller. , 2011, , .		2
113	Contribution of PV systems with ultra capacitor energy storage on inter-area oscillation. , 2011, , .		12
114	Stable model predictive control based on TS fuzzy model with application to boiler-turbine coordinated system. , 2011, , .		10
115	Neural network based superheater steam temperature control for a large-scale supercritical boiler unit. , 2011, , .		13
116	Generator maintenance scheduling considering minimization of CO2 emissions. , 2011, , .		2
117	Modeling and simulation of a power conditioning system for the hybrid fuel-cell/turbine power plant. , 2011, , .		5
118	An optimal reference governor with a neural network combined model for hybrid Fuel-Cell/Gas-Turbine. , 2010, , .		6
119	Once-through boiler steam temperature control using Dynamic Matrix Control technique. , 2010, , .		1
120	Pareto optimization with reverse normal-boundary intersection for power plant models. , 2010, , .		1
121	An Intelligent Power Plant Fault Diagnostics for Varying Degree of Severity and Loading Conditions. IEEE Transactions on Energy Conversion, 2010, 25, 546-554.	5.2	21
122	An Improved Particle Swarm Optimization for Nonconvex Economic Dispatch Problems. IEEE Transactions on Power Systems, 2010, 25, 156-166.	6.5	501
123	Modeling and analysis of a grid-connected wind energy conversion system using PSCAD/EMTDC. , 2010, , .		3
124	Neural network based loading margin approximation for static voltage stability in power systems. , 2010, , .		0
125	A New Quantum-Inspired Binary PSO: Application to Unit Commitment Problems for Power Systems. IEEE Transactions on Power Systems, 2010, 25, 1486-1495.	6.5	203
126	Closure to Discussion on "Economic Load Dispatch" A Comparative Study on Heuristic Optimization Techniques With an Improved Coordinated Aggregation-Based PSO. IEEE Transactions on Power Systems, 2010, 25, 591-592.	6.5	17

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127	Closure to discussion of "An improved particle swarm optimization for nonconvex economic dispatch problems". IEEE Transactions on Power Systems, 2010, 25, 2010-2011.	6.5	8
128	A comprehensive survey on multi-objective evolutionary optimization in power system applications. , 2010, , .		7
129	Superheater steam temperature control for a 300MW boiler unit with Inverse Dynamic Process Models. , 2010, , .		2
130	New efficient reserve rate index of power system including renewable energy generators. , 2010, , .		5
131	Implementation of a multi-agent system for optimized multiobjective power plant control. , 2010, , .		5
132	An optimal reference governor for hybrid Fuel-Cell/Gas-Turbine as a distributed generation source. , 2010, , .		3
133	Fuzzy Fault Diagnosis and Accommodation System for Hybrid Fuel-Cell/Gas-Turbine Power Plant. IEEE Transactions on Energy Conversion, 2010, 25, 1187-1194.	5.2	29
134	Interface of a fuel cell distributed generator with distribution system network. , 2009, , .		7
135	Voltage stability improvement by multi-objective placement of SVC using modified artificial immune network algorithm. , 2009, , .		6
136	Regional grouping of an interconnected transmission system using the sequential clustering technique. , 2009, , .		0
137	Approximate Loading Margin Methods Using Artificial Neural Networks in Power Systems. , 2009, , .		1
138	A study on wind speed prediction using artificial neural network at Jeju Island in Korea. , 2009, , .		9
139	A New Quantum-Inspired Binary PSO for Thermal Unit Commitment Problems. , 2009, , .		25
140	Design and Implementation of a Last-Mile Optical Network for Distribution Automation. IEEE Transactions on Power Delivery, 2009, 24, 1198-1205.	4.3	9
141	Economic Load Dispatch "A Comparative Study on Heuristic Optimization Techniques With an Improved Coordinated Aggregation-Based PSO. IEEE Transactions on Power Systems, 2009, 24, 991-1001.	6.5	212
142	A Thermal Unit Commitment Approach Using an Improved Quantum Evolutionary Algorithm. Electric Power Components and Systems, 2009, 37, 770-786.	1.8	51
143	Model augmentation for hybrid fuel-cell/gas turbine power plant. , 2009, , .		2
144	Real-Time Based Agent Architecture for Power Plant Control. , 2009, , .		3

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145	Short-Term Load Forecasting Using Semigroup Based System-Type Neural Network. , 2009, , .		0
146	Incorporated Multi-Stage Nash Equilibriums for the Generation Allocation Problem Considering Ramp Rate Effects. , 2009, , .		1
147	Distributed Discrete Event and Pseudo Real-Time Combined Simulation for Multi-Agent Controlled Power Plants. , 2009, , .		2
148	Quantum-Inspired Evolutionary Algorithm for Real and Reactive Power Dispatch. IEEE Transactions on Power Systems, 2008, 23, 1627-1636.	6.5	121
149	Multi-Objective Evolutionary Programming for Economic Emission Dispatch problem. , 2008, , .		32
150	Design of a supplementary controller for SVC using hybrid real immune algorithm and local search. , 2008, , .		6
151	Design of supplementary controller for HVDC using Memetic Algorithm with population management. , 2008, , .		2
152	Impact of wind power generation in the Korea-Jeju power system. , 2008, , .		5
153	Analysis of the pareto front of a multi-objective optimization problem for a fossil fuel power plant. , 2008, , .		12
154	A Multiagent-System-Based Intelligent Reference Governor for Multiobjective Optimal Power Plant Operation. IEEE Transactions on Energy Conversion, 2008, 23, 1082-1092.	5.2	28
155	Long-Term Load Forecasting Using System Type Neural Network Architecture. , 2007, , .		6
156	Implementation of GCPSO for Multi-objective VAR Planning with SVC and Its Comparison with GA and PSO. , 2007, , .		8
157	Design of Power System Stabilizer Using Immune Algorithm. , 2007, , .		10
158	Differential Evolution and its Applications to Power Plant Control. , 2007, , .		33
159	An Adaptive Dynamic Matrix Control of a Boiler-Turbine System Using Fuzzy Inference. , 2007, , .		7
160	Applications to System Planning. , 0, , 285-335.		1
161	Hybrid Systems. , 0, , 525-562.		0
162	Application of Evolutionary Technique to Power System Vulnerability Assessment. , 0, , 261-284.		0

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163	Fundamentals of Ant Colony Search Algorithms. , 0 , 89-100.		2
164	Genetic Algorithms for Solving Optimal Power Flow Problems. , 0 , 471-500.		1
165	Fundamentals of Tabu Search. , 0 , 101-122.		3
166	Overview of Applications in Power Systems. , 0 , 235-259.		1
167	Power System Controls. , 0 , 403-469.		1
168	Applications to Power System Scheduling. , 0 , 337-402.		0
169	Fuzzy Systems. , 0 , 147-170.		0
170	An Interactive Compromise Programming-Based Multiobjective Approach to FACTS Control. , 0 , 501-523.		0
171	Stochastic model predictive control based on multi-step control strategy for discrete nonlinear systems. International Journal of Robust and Nonlinear Control, 0 , .	3.7	0