David J Hill

List of Publications by Year
in descending order

410 papers	24,427 citations	11651 70 h-index	9103 144 g-index
411 all docs	411 docs citations	411 times ranked	11447 citing authors

#	Article	IF	Citations
1	Definition and Classification of Power System Stability IEEE/CIGRE Joint Task Force on Stability Terms and Definitions. IEEE Transactions on Power Systems, 2004, 19, 1387-1401.	6.5	2,648
2	Short-Term Residential Load Forecasting Based on LSTM Recurrent Neural Network. IEEE Transactions on Smart Grid, 2019, 10, 841-851.	9.0	1,424
3	On stability, <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mi>L</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></m and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.gif" display="inline" Stability and <mml:math altimg="si1.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x.	5.0	749
4		5.0	740
5	Dissipative Dynamical Systems: Basic Input-Output and State Properties. Journal of the Franklin Institute, 1980, 309, 327-357.	3.4	551
6	Design issues in adaptive control. IEEE Transactions on Automatic Control, 1988, 33, 50-58.	5.7	518
7	An ISS-modular approach for adaptive neural control of pure-feedback systems. Automatica, 2006, 42, 723-731.	5.0	488
8	Short-Term Residential Load Forecasting Based on Resident Behaviour Learning. IEEE Transactions on Power Systems, 2018, 33, 1087-1088.	6.5	440
9	Stability results for nonlinear feedback systems. Automatica, 1977, 13, 377-382.	5.0	436
10	Synchronization of Networks of Nonidentical Euler-Lagrange Systems With Uncertain Parameters and Communication Delays. IEEE Transactions on Automatic Control, 2011, 56, 935-941.	5.7	406
11	Definition and Classification of Power System Stability â€“ Revisited & Extended. IEEE Transactions on Power Systems, 2021, 36, 3271-3281.	6.5	404
12	Foundations and Challenges of Low-Inertia Systems (Invited Paper). , 2018, , .		392
13	Dissipativity Theory for Switched Systems. IEEE Transactions on Automatic Control, 2008, 53, 941-953.	5.7	384
14	On hybrid impulsive and switching systems and application to nonlinear control. IEEE Transactions on Automatic Control, 2005, 50, 1058-1062.	5.7	370
15	Learning From Neural Control. IEEE Transactions on Neural Networks, 2006, 17, 130-146.	4.2	354
16	Fast calculation of a voltage stability index. IEEE Transactions on Power Systems, 1992, 7, 54-64.	6.5	338
17	Stability criteria for large-scale systems. IEEE Transactions on Automatic Control, 1978, 23, 143-149.	5.7	316
18	Nonlinear decentralized control of large-scale power systems. Automatica, 2000, 36, 1275-1289.	5.0	282

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19	Synchronization of complex dynamical networks with switching topology: A switched system point of view. Automatica, 2009, 45, 2502-2511.	5.0	278
20	Prescribed-Time Consensus and Containment Control of Networked Multiagent Systems. IEEE Transactions on Cybernetics, 2019, 49, 1138-1147.	9.5	274
21	Composite Load Modeling via Measurement Approach. IEEE Transactions on Power Systems, 2006, 21, 663-672.	6.5	272
22	Transient stability enhancement and voltage regulation of power systems. IEEE Transactions on Power Systems, 1993, 8, 620-627.	6.5	270
23	A new strategy for transmission expansion in competitive electricity markets. IEEE Transactions on Power Systems, 2003, 18, 374-380.	6.5	247
24	Structure identification of uncertain general complex dynamical networks with time delay. Automatica, 2009, 45, 1799-1807.	5.0	241
25	Multi-Timescale Coordinated Voltage/Var Control of High Renewable-Penetrated Distribution Systems. IEEE Transactions on Power Systems, 2017, 32, 4398-4408.	6.5	219
26	Intelligent Time-Adaptive Transient Stability Assessment System. IEEE Transactions on Power Systems, 2018, 33, 1049-1058.	6.5	210
27	A Unifying Framework for Global Regulation Via Nonlinear Output Feedback: From ISS to iISS. IEEE Transactions on Automatic Control, 2004, 49, 549-562.	5.7	198
28	Global transient stability and voltage regulation for power systems. IEEE Transactions on Power Systems, 2001, 16, 678-688.	6.5	194
29	Deterministic Learning and Rapid Dynamical Pattern Recognition. IEEE Transactions on Neural Networks, 2007, 18, 617-630.	4.2	184
30	Connections between finite-gain and asymptotic stability. IEEE Transactions on Automatic Control, 1980, 25, 931-936.	5.7	173
31	Event-triggered asynchronous intermittent communication strategy for synchronization in complex dynamical networks. Neural Networks, 2015, 66, 1-10.	5.9	169
32	Robust decentralized nonlinear controller design for multimachine power systems. Automatica, 1997, 33, 1725-1733.	5.0	168
33	Low Carbon Oriented Expansion Planning of Integrated Gas and Power Systems. IEEE Transactions on Power Systems, 2015, 30, 1035-1046.	6.5	162
34	Passivity and stability of switched systems: A multiple storage function method. Systems and Control Letters, 2008, 57, 158-164.	2.3	158
35	Exponential Feedback Passivity and Stabilizability of Nonlinear Systems. Automatica, 1998, 34, 697-703.	5.0	152
36	Passivity-based control and synchronization of general complex dynamical networks. Automatica, 2009, 45, 2107-2113.	5.0	144

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37	Multi-Agent Systems with Dynamical Topologies: Consensus and Applications. IEEE Circuits and Systems Magazine, 2013, 13, 21-34.	2.3	143
38	Reducing Identified Parameters of Measurement-Based Composite Load Model. IEEE Transactions on Power Systems, 2008, 23, 76-83.	6.5	140
39	An Extensible Approach for Non-Intrusive Load Disaggregation With Smart Meter Data. IEEE Transactions on Smart Grid, 2018, 9, 3362-3372.	9.0	139
40	Online Distributed MPC-Based Optimal Scheduling for EV Charging Stations in Distribution Systems. IEEE Transactions on Industrial Informatics, 2019, 15, 638-649.	11.3	135
41	Lyapunov formulation of ISS cyclic-small-gain in continuous-time dynamical networks. Automatica, 2011, 47, 2088-2093.	5.0	132
42	Coordinated Control Strategies for Offshore Wind Farm Integration via VSC-HVDC for System Frequency Support. IEEE Transactions on Energy Conversion, 2017, 32, 843-856.	5.2	131
43	Attack structural vulnerability of power grids: A hybrid approach based on complex networks. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 595-603.	2.6	126
44	A sector bound approach to feedback control of nonlinear systems with state quantization. Automatica, 2012, 48, 145-152.	5.0	125
45	Synchronization of Dynamical Networks With Nonidentical Nodes: Criteria and Control. IEEE Transactions on Circuits and Systems I: Regular Papers, 2011, 58, 584-594.	5.4	123
46	Cascading failure in Wattsâ€“Strogatz small-world networks. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 1281-1285.	2.6	119
47	Exponential Synchronization of Complex Delayed Dynamical Networks With Switching Topology. IEEE Transactions on Circuits and Systems I: Regular Papers, 2010, 57, 2967-2980.	5.4	117
48	Global Asymptotical Synchronization of Chaotic Lur'e Systems Using Sampled Data: A Linear Matrix Inequality Approach. IEEE Transactions on Circuits and Systems II: Express Briefs, 2008, 55, 586-590.	3.0	108
49	Emergency voltage control using search and predictive control. International Journal of Electrical Power and Energy Systems, 2002, 24, 121-130.	5.5	107
50	Global boundedness of discrete-time adaptive control just using estimator projection. Automatica, 1992, 28, 1143-1157.	5.0	105
51	Numerical Simulation for Stochastic Transient Stability Assessment. IEEE Transactions on Power Systems, 2012, 27, 1741-1749.	6.5	104
52	Decentralized nonlinear output-feedback stabilization with disturbance attenuation. IEEE Transactions on Automatic Control, 2001, 46, 1623-1629.	5.7	101
53	An improved model for structural vulnerability analysis of power networks. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 4259-4266.	2.6	96
54	A Hierarchical Hidden Markov Model Framework for Home Appliance Modeling. IEEE Transactions on Smart Grid, 2018, 9, 3079-3090.	9.0	94

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55	Hierarchical Deep Learning Machine for Power System Online Transient Stability Prediction. IEEE Transactions on Power Systems, 2020, 35, 2399-2411.	6.5	94
56	Robust nonlinear coordinated control of power systems. Automatica, 1996, 32, 611-618.	5.0	87
57	Optimal Operation of Battery Energy Storage System Considering Distribution System Uncertainty. IEEE Transactions on Sustainable Energy, 2018, 9, 1051-1060.	8.8	87
58	A Novel Consensus-Based Economic Dispatch for Microgrids. IEEE Transactions on Smart Grid, 2018, 9, 3920-3922.	9.0	87
59	Exploring Reliable Strategies for Defending Power Systems Against Targeted Attacks. IEEE Transactions on Power Systems, 2011, 26, 1000-1009.	6.5	86
60	Multi-Agent Optimal Allocation of Energy Storage Systems in Distribution Systems. IEEE Transactions on Sustainable Energy, 2017, 8, 1715-1725.	8.8	84
61	Frequency Support From Wind Turbine Generators With a Time-Variable Droop Characteristic. IEEE Transactions on Sustainable Energy, 2018, 9, 676-684.	8.8	84
62	Fast Distributed Reactive Power Control for Voltage Regulation in Distribution Networks. IEEE Transactions on Power Systems, 2019, 34, 802-805.	6.5	84
63	Impulsive Consensus for Complex Dynamical Networks with Nonidentical Nodes and Coupling Time-Delays. SIAM Journal on Control and Optimization, 2011, 49, 315-338.	2.1	83
64	Impulsive Synchronization of Chaotic Lur'e Systems by Linear Static Measurement Feedback: An LMI Approach. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2007, 54, 710-714.	2.2	80
65	Global Bounded Synchronization of General Dynamical Networks With Nonidentical Nodes. IEEE Transactions on Automatic Control, 2012, 57, 2656-2662.	5.7	79
66	Nonlinear adaptive control of feedback passive systems. Automatica, 1995, 31, 1053-1060.	5.0	78
67	Stabilisation to inputâ€toâ€state stability for continuousâ€time dynamical systems via eventâ€triggered impulsive control with three levels of events. IET Control Theory and Applications, 2018, 12, 1167-1179.	2.1	77
68	Hierarchical Optimal Allocation of Battery Energy Storage Systems for Multiple Services in Distribution Systems. IEEE Transactions on Sustainable Energy, 2020, 11, 1911-1921.	8.8	76
69	Decentralized robust disturbance attenuation for a class of large-scale nonlinear systems. Systems and Control Letters, 1999, 37, 71-85.	2.3	74
70	Load Modeling by Finding Support Vectors of Load Data From Field Measurements. IEEE Transactions on Power Systems, 2006, 21, 726-735.	6.5	74
71	Small-Gain Based Output-Feedback Controller Design for a Class of Nonlinear Systems With Actuator Dynamic Quantization. IEEE Transactions on Automatic Control, 2012, 57, 1326-1332.	5.7	73
72	Input-to-state-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:mi mathvariant="script">K</mml:mi><mml:mi mathvariant="script">L</mml:mi></mml:mrow></mml:math>-stability and criteria for a class of hybrid dynamical systems. Applied Mathematics and Computation, 2018, 326, 124-140.	2.2	73

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73	A HYBRID IMPULSIVE AND SWITCHING CONTROL STRATEGY FOR SYNCHRONIZATION OF NONLINEAR SYSTEMS AND APPLICATION TO CHUA'S CHAOTIC CIRCUIT. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 229-238.	1.7	72
74	Improving Nonintrusive Load Monitoring Efficiency via a Hybrid Programing Method. IEEE Transactions on Industrial Informatics, 2016, 12, 2148-2157.	11.3	72
75	Stability of dynamical networks with non-identical nodes: A multiple<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si10.gif" display="inline" overflow="scroll"><mml:mi>V</mml:mi></mml:math>-Lyapunov function method. Automatica, 2011, 47, 2615-2625.	5.0	70
76	Attack Vulnerability of Complex Communication Networks. IEEE Transactions on Circuits and Systems II: Express Briefs, 2008, 55, 65-69.	3.0	69
77	Learning from neural control of nonlinear systems in normal form. Systems and Control Letters, 2009, 58, 633-638.	2.3	69
78	Synchronization of complex delayed dynamical networks with nonlinearly coupled nodes. Chaos, Solitons and Fractals, 2009, 40, 1506-1519.	5.1	68
79	Effects of rotational Inertia on power system damping and frequency transients. , 2015, , .		68
80	DETERMINISTIC LEARNING OF NONLINEAR DYNAMICAL SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2009, 19, 1307-1328.	1.7	67
81	Learning From ISS-Modular Adaptive NN Control of Nonlinear Strict-Feedback Systems. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 1539-1550.	11.3	67
82	Inputâ€toâ€state exponents and related ISS for delayed discreteâ€time systems with application to impulsive effects. International Journal of Robust and Nonlinear Control, 2018, 28, 640-660.	3.7	67
83	Transient stabilization of power systems with an adaptive control law. Automatica, 1994, 30, 1409-1413.	5.0	63
84	On undervoltage load shedding in power systems. International Journal of Electrical Power and Energy Systems, 1997, 19, 141-149.	5.5	62
85	A Framework for Assessing Renewable Integration Limits With Respect to Frequency Performance. IEEE Transactions on Power Systems, 2018, 33, 4444-4453.	6.5	61
86	Distributed Coordinated Reactive Power Control for Voltage Regulation in Distribution Networks. IEEE Transactions on Smart Grid, 2021, 12, 312-323.	9.0	61
87	A passification approach to adaptive nonlinear stabilization. Systems and Control Letters, 1996, 28, 73-84.	2.3	60
88	A New Formulation of Distribution Network Reconfiguration for Reducing the Voltage Volatility Induced by Distributed Generation. IEEE Transactions on Power Systems, 2020, 35, 496-507.	6.5	59
89	A generalization of the small-gain theorem for nonlinear feedback systems. Automatica, 1991, 27, 1043-1045.	5.0	58
90	Decentralized output-feedback control of large-scale nonlinear systems with sensor noise. Automatica, 2012, 48, 2560-2568.	5.0	58

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91	Input-to-state stability for discrete time-delay systems via the Razumikhin technique. Systems and Control Letters, 2009, 58, 567-575.	2.3	57
92	Multiagent System Based Microgrid Energy Management via Asynchronous Consensus ADMM. IEEE Transactions on Energy Conversion, 2018, 33, 886-888.	5.2	57
93	Passivity-based output synchronization of dynamical networks with non-identical nodes. , 2010, , .		56
94	Distributionally Robust Optimal Power Flow in Multi-Microgrids With Decomposition and Guaranteed Convergence. IEEE Transactions on Smart Grid, 2021, 12, 43-55.	9.0	56
95	A notion of passivity for switched systems with state-dependent switching. Journal of Control Theory and Applications, 2006, 4, 70-75.	0.8	54
96	Stabilization to Exponential Input-to-State Stability via Aperiodic Intermittent Control. IEEE Transactions on Automatic Control, 2021, 66, 2913-2919.	5.7	53
97	Robust Dispatch of High Wind Power-Penetrated Power Systems Against Transient Instability. IEEE Transactions on Power Systems, 2018, 33, 174-186.	6.5	52
98	Algorithmic and Strategic Aspects to Integrating Demand-Side Aggregation and Energy Management Methods. IEEE Transactions on Smart Grid, 2016, 7, 2748-2760.	9.0	51
99	Global synchronization of complex dynamical networks with non-identical nodes. , 2008, , .		50
100	Distributed MPC-Based Frequency Control in Networked Microgrids With Voltage Constraints. IEEE Transactions on Smart Grid, 2019, 10, 6343-6354.	9.0	48
101	Towards A Theoretical Framework for Analysis and Intervention of Random Drift on General Networks. IEEE Transactions on Automatic Control, 2015, 60, 576-581.	5.7	47
102	Critical Bus Voltage Support in Distribution Systems With Electric Springs and Responsibility Sharing. IEEE Transactions on Power Systems, 2017, 32, 3584-3593.	6.5	47
103	An Adaptive Distributionally Robust Model for Three-Phase Distribution Network Reconfiguration. IEEE Transactions on Smart Grid, 2021, 12, 1224-1237.	9.0	47
104	Transient stability and voltage regulation enhancement via coordinated control of generator excitation and SVC. International Journal of Electrical Power and Energy Systems, 2005, 27, 121-130.	5.5	45
105	MPC-Based Frequency Control With Demand-Side Participation: A Case Study in an Isolated Wind-Aluminum Power System. IEEE Transactions on Power Systems, 2015, 30, 3327-3337.	6.5	45
106	Output Synchronization of Dynamical Networks with Incrementally-Dissipative Nodes and Switching Topology. IEEE Transactions on Circuits and Systems I: Regular Papers, 2015, 62, 2312-2323.	5.4	45
107	Non-Disruptive Load-Side Control for Frequency Regulation in Power Systems. IEEE Transactions on Smart Grid, 2016, 7, 2142-2153.	9.0	45
108	Online Scheduling for Hierarchical Vehicle-to-Grid System: Design, Formulation, and Algorithm. IEEE Transactions on Vehicular Technology, 2019, 68, 1302-1317.	6.3	45

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109	Trajectory sensitivity analysis on the equivalent oneâ€machineâ€infiniteâ€bus of multiâ€machine systems for preventive transient stability control. IET Generation, Transmission and Distribution, 2015, 9, 276-286.	2.5	44
110	Static Voltage Stability Analysis of Distribution Systems Based on Network-Load Admittance Ratio. IEEE Transactions on Power Systems, 2019, 34, 2270-2280.	6.5	44
111	Coordinated Dispatch of Virtual Energy Storage Systems in Smart Distribution Networks for Loading Management. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 776-786.	9.3	44
112	On Convexity of Power Flow Feasibility Boundary. IEEE Transactions on Power Systems, 2008, 23, 811-813.	6.5	43
113	Stability via Hybrid-Event-Time Lyapunov Function and Impulsive Stabilization for Discrete-Time Delayed Switched Systems. SIAM Journal on Control and Optimization, 2014, 52, 1338-1365.	2.1	43
114	Optimal Scheduling for EV Charging Stations in Distribution Networks: A Convexified Model. IEEE Transactions on Power Systems, 2016, , 1-1.	6.5	43
115	Distributed Voltage Control and Power Management of Networked Microgrids. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2018, 6, 1892-1902.	5.4	43
116	Eventâ€triggered control via impulses for exponential stabilization of discreteâ€time delayed systems and networks. International Journal of Robust and Nonlinear Control, 2019, 29, 1613-1638.	3.7	43
117	Designing ancillary services markets for power system security. IEEE Transactions on Power Systems, 2000, 15, 675-680.	6.5	42
118	Controlling complex dynamical networks with coupling delays to a desired orbit. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 359, 42-46.	2.1	42
119	Decomposable Dissipativity and Related Stability for Discrete-Time Switched Systems. IEEE Transactions on Automatic Control, 2011, 56, 1666-1671.	5.7	41
120	Synchronization of Dynamical Networks by Network Control. IEEE Transactions on Automatic Control, 2012, 57, 1574-1580.	5.7	41
121	A Decomposition-Based Practical Approach to Transient Stability-Constrained Unit Commitment. IEEE Transactions on Power Systems, 2015, 30, 1455-1464.	6.5	40
122	Power system cascading risk assessment based on complex network theory. Physica A: Statistical Mechanics and Its Applications, 2017, 482, 532-543.	2.6	40
123	Generic Demand Model Considering the Impact of Prosumers for Future Grid Scenario Analysis. IEEE Transactions on Smart Grid, 2019, 10, 819-829.	9.0	40
124	Delay Aware Intelligent Transient Stability Assessment System. IEEE Access, 2017, 5, 17230-17239.	4.2	39
125	Delay Aware Power System Synchrophasor Recovery and Prediction Framework. IEEE Transactions on Smart Grid, 2019, 10, 3732-3742.	9.0	39
126	When Structure Meets Function in Evolutionary Dynamics on Complex Networks. IEEE Circuits and Systems Magazine, 2014, 14, 36-50.	2.3	37

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127	Enhancing Flexibility of an Islanded Microgrid With Electric Springs. IEEE Transactions on Smart Grid, 2019, 10, 899-909.	9.0	37
128	Large-scale aggregation of prosumers toward strategic bidding in joint energy and regulation markets. Applied Energy, 2020, 271, 115159.	10.1	37
129	Adaptive linear control of nonlinear systems. IEEE Transactions on Automatic Control, 1990, 35, 1253-1257.	5.7	36
130	Robust co-ordinated AVR-PSS design. IEEE Transactions on Power Systems, 1994, 9, 1218-1225.	6.5	36
131	Aggregated demand response modelling for future grid scenarios. Sustainable Energy, Grids and Networks, 2016, 5, 94-104.	3.9	36
132	Comparison Principle and Stability of Discrete-Time Impulsive Hybrid Systems. IEEE Transactions on Circuits and Systems I: Regular Papers, 2009, 56, 233-245.	5.4	34
133	Uniform stability and ISS of discrete-time impulsive hybrid systems. Nonlinear Analysis: Hybrid Systems, 2010, 4, 319-333.	3.5	34
134	Stability analysis of decentralised robust adaptive control. Systems and Control Letters, 1988, 11, 277-284.	2.3	33
135	Synchronization of Complex Dynamical Networks with Switching Topology via Adaptive Control. , 2006, , .		33
136	Robust exponential input-to-state stability of impulsive systems with an application in micro-grids. Systems and Control Letters, 2014, 65, 64-73.	2.3	33
137	A deep learning-based general robust method for network reconfiguration in three-phase unbalanced active distribution networks. International Journal of Electrical Power and Energy Systems, 2020, 120, 105982.	5.5	33
138	Vector <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si3.gif" display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mi>L</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></m and stability of feedback switched systems. Automatica, 2009, 45, 1703-1707.	5.0	32
139	Cooperative output regulation of linear multi-agent network systems with dynamic edges. Automatica, 2017, 77, 1-13.	5.0	32
140	Distributed Secondary Frequency Control Algorithm Considering Storage Efficiency. IEEE Transactions on Smart Grid, 2018, 9, 6214-6228.	9.0	32
141	Intelligent Short-Term Voltage Stability Assessment via Spatial Attention Rectified RNN Learning. IEEE Transactions on Industrial Informatics, 2021, 17, 7005-7016.	11.3	32
142	General Instability Results for Interconnected Systems. SIAM Journal on Control and Optimization, 1983, 21, 256-279.	2.1	31
143	A Distributed Framework for Stability Evaluation and Enhancement of Inverter-Based Microgrids. IEEE Transactions on Smart Grid, 2017, 8, 3020-3034.	9.0	31
144	Network-Based Analysis of Small-Disturbance Angle Stability of Power Systems. IEEE Transactions on Control of Network Systems, 2018, 5, 901-912.	3.7	31

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145	On the analysis of long-term voltage stability. International Journal of Electrical Power and Energy Systems, 1993, 15, 229-237.	5.5	30
146	Optimal integration of mobile battery energy storage in distribution system with renewables. Journal of Modern Power Systems and Clean Energy, 2015, 3, 589-596.	5.4	30
147	Impact of Tie-Line Power on Inter-Area Modes With Increased Penetration of Wind Power. IEEE Transactions on Power Systems, 2016, 31, 3051-3059.	6.5	30
148	Robust Transient Stability-Constrained Optimal Power Flow With Uncertain Dynamic Loads. IEEE Transactions on Smart Grid, 2017, 8, 1911-1921.	9.0	30
149	Lyapunov functions of lur'e-postnikov form for structure preserving models of power systems. Automatica, 1989, 25, 453-460.	5.0	29
150	Synchrophasor Recovery and Prediction: A Graph-Based Deep Learning Approach. IEEE Internet of Things Journal, 2019, 6, 7348-7359.	8.7	29
151	A Secondary Control Method for Voltage Unbalance Compensation and Accurate Load Sharing in Networked Microgrids. IEEE Transactions on Smart Grid, 2021, 12, 2822-2833.	9.0	29
152	Optimal capacity distribution on complex networks. Europhysics Letters, 2010, 89, 58004.	2.0	28
153	Synchronization of dynamical networks with distributed event-based communication. , 2012, , .		28
154	Small oscillation fault detection for a class of nonlinear systems with output measurements using deterministic learning. Systems and Control Letters, 2015, 79, 39-46.	2.3	28
155	Enhancing Resilience of Microgrids with Electric Springs. IEEE Transactions on Smart Grid, 2016, , 1-1.	9.0	28
156	Distribution Network Reconfiguration for Short-Term Voltage Stability Enhancement: An Efficient Deep Learning Approach. IEEE Transactions on Smart Grid, 2021, 12, 5385-5395.	9.0	28
157	Global power system control using generator excitation, PSS, FACTS devices and capacitor switching. International Journal of Electrical Power and Energy Systems, 2005, 27, 448-464.	5.5	27
158	Quantized stabilization of strict-feedback nonlinear systems based on ISS cyclic-small-gain theorem. Mathematics of Control, Signals, and Systems, 2012, 24, 75-110.	2.3	27
159	An improved framework for power grid vulnerability analysis considering critical system features. Physica A: Statistical Mechanics and Its Applications, 2014, 395, 405-415.	2.6	27
160	Rapid Oscillation Fault Detection and Isolation for Distributed Systems via Deterministic Learning. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 1187-1199.	11.3	27
161	Stability Analysis of Power Systems: A Network Synchronization Perspective. SIAM Journal on Control and Optimization, 2018, 56, 1640-1664.	2.1	27
162	Small Fault Detection for a Class of Closed-Loop Systems via Deterministic Learning. IEEE Transactions on Cybernetics, 2019, 49, 897-906.	9.5	27

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163	Robustness of adaptive control without deadzones, data normalization or persistence of excitation. Automatica, 1989, 25, 943-947.	5.0	26
164	Uniform stability of large-scale delay discrete impulsive systems. International Journal of Control, 2009, 82, 228-240.	1.9	26
165	Optimal Short-term Power Dispatch Scheduling for a Wind Farm with Battery Energy Storage System. IFAC-PapersOnLine, 2015, 48, 518-523.	0.9	26
166	A power flow based model for the analysis of vulnerability in power networks. Physica A: Statistical Mechanics and Its Applications, 2016, 460, 105-115.	2.6	25
167	Stability analysis of power system loads with recovery dynamics. International Journal of Electrical Power and Energy Systems, 1994, 16, 277-286.	5.5	24
168	Stabilization and Tracking via Output Feedback for the Nonlinear Benchmark System. Automatica, 1998, 34, 907-915.	5.0	24
169	Optimal voltage security control of power systems. International Journal of Electrical Power and Energy Systems, 2002, 24, 305-320.	5.5	24
170	Continuation of local bifurcations for power systemdifferential-algebraic equation stability model. IET Generation, Transmission and Distribution, 2005, 152, 575.	1.1	24
171	On the structural controllability of networks of linear systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 245-250.	0.4	24
172	Lyapunov formulation of the large-scale, ISS cyclic-small-gain theorem: The discrete-time case. Systems and Control Letters, 2012, 61, 266-272.	2.3	24
173	Powering China's Sustainable Development with Renewable Energies: Current Status and Future Trend. Electric Power Components and Systems, 2015, 43, 1193-1204.	1.8	24
174	A Lyapunov approach to analysis of discrete singular systems. Systems and Control Letters, 2002, 45, 237-247.	2.3	23
175	Lyapunov formulation of the ISS cyclic-small-gain theorem for hybrid dynamical networks. Nonlinear Analysis: Hybrid Systems, 2012, 6, 988-1001.	3.5	23
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