Xiaohua Xia

List of Publications by Year
in descending order

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281 papers	9,137 citations	36271 51 h-index	54882 84 g-index
291 all docs	291 docs citations	291 times ranked	6862 citing authors

#	Article	IF	Citations
1	On Identifiability of Nonlinear ODE Models and Applications in Viral Dynamics. SIAM Review, 2011, 53, 3-39.	4.2	412
2	Optimal dispatch for a microgrid incorporating renewables and demand response. Renewable Energy, 2017, 101, 16-28.	4.3	284
3	Optimal scheduling of household appliances for demand response. Electric Power Systems Research, 2014, 116, 24-28.	2.1	264
4	Semi-global finite-time observers for nonlinear systems. Automatica, 2008, 44, 3152-3156.	3.0	237
5	Adaptive consensus of multi-agents in networks with jointly connected topologies. Automatica, 2012, 48, 1783-1790.	3.0	236
6	Demand side management of photovoltaic-battery hybrid system. Applied Energy, 2015, 148, 294-304.	5.1	233
7	Minimum cost solution of photovoltaicâ€“dieselâ€“battery hybrid power systems for remote consumers. Solar Energy, 2013, 96, 292-299.	2.9	175
8	Dynamics of Discrete-Time Sliding-Mode-Control Uncertain Systems With a Disturbance Compensator. IEEE Transactions on Industrial Electronics, 2014, 61, 3502-3510.	5.2	162
9	A multi-objective optimization model for energy-efficiency building envelope retrofitting plan with rooftop PV system installation and maintenance. Applied Energy, 2017, 189, 327-335.	5.1	161
10	Multi-objective dynamic economic emission dispatch of electric power generation integrated with game theory based demand response programs. Energy Conversion and Management, 2015, 89, 963-974.	4.4	159
11	A multi-objective optimization model for the life-cycle cost analysis and retrofitting planning of buildings. Energy and Buildings, 2014, 77, 227-235.	3.1	153
12	Optimal motion planning for overhead cranes. IET Control Theory and Applications, 2014, 8, 1833-1842.	1.2	131
13	An optimal control model for load shifting â€“ With application in the energy management of a colliery. Applied Energy, 2009, 86, 1266-1273.	5.1	129
14	Optimal power flow management for distributed energy resources with batteries. Energy Conversion and Management, 2015, 102, 104-110.	4.4	128
15	Switched Model Predictive Control for Energy Dispatching of a Photovoltaic-Diesel-Battery Hybrid Power System. IEEE Transactions on Control Systems Technology, 2015, 23, 1229-1236.	3.2	125
16	Model predictive control for improving operational efficiency of overhead cranes. Nonlinear Dynamics, 2015, 79, 2639-2657.	2.7	124
17	Modeling and energy efficiency optimization of belt conveyors. Applied Energy, 2011, 88, 3061-3071.	5.1	122
18	Energy dispatch strategy for a photovoltaicâ€“windâ€“dieselâ€“battery hybrid power system. Solar Energy, 2014, 108, 412-420.	2.9	120

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19	A multiple objective optimisation model for building energy efficiency investment decision. Energy and Buildings, 2013, 61, 81-87.	3.1	117
20	Optimal control of operation efficiency of belt conveyor systems. Applied Energy, 2010, 87, 1929-1937.	5.1	114
21	Optimal scheduling of household appliances with a battery storage system and coordination. Energy and Buildings, 2015, 94, 61-70.	3.1	103
22	Optimal Scheduling and Control of Heavy Haul Trains Equipped With Electronically Controlled Pneumatic Braking Systems. IEEE Transactions on Control Systems Technology, 2007, 15, 1159-1166.	3.2	101
23	A model predictive control strategy for load shifting in a water pumping scheme with maximum demand charges. Applied Energy, 2011, 88, 4785-4794.	5.1	95
24	Analysis of nonlinear time-delay systems using modules over non-commutative rings. Automatica, 2002, 38, 1549-1555.	3.0	93
25	An application of model predictive control to the dynamic economic dispatch of power generation. Control Engineering Practice, 2011, 19, 638-648.	3.2	92
26	Adaptive finite-time consensus in multi-agent networks. Systems and Control Letters, 2013, 62, 880-889.	1.3	91
27	Hybrid DE-SQP and hybrid PSO-SQP methods for solving dynamic economic emission dispatch problem with valve-point effects. Electric Power Systems Research, 2013, 103, 192-200.	2.1	90
28	Optimal operation scheduling of a pumping station with multiple pumps. Applied Energy, 2013, 104, 250-257.	5.1	89
29	Optimal control of a fuel cell/wind/PV/grid hybrid system with thermal heat pump load. Solar Energy, 2016, 135, 59-69.	2.9	89
30	A review on anaerobic digestion with focus on the role of biomass co-digestion, modelling and optimisation on biogas production and enhancement. Bioresource Technology, 2022, 344, 126311.	4.8	85
31	Battery energy storage sizing optimisation for different ownership structures in a peer-to-peer energy sharing community. Applied Energy, 2020, 262, 114498.	5.1	83
32	Combined residential demand side management strategies with coordination and economic analysis. International Journal of Electrical Power and Energy Systems, 2016, 79, 150-160.	3.3	78
33	When to initiate hiv therapy: a control theoretic approach. IEEE Transactions on Biomedical Engineering, 2003, 50, 1213-1220.	2.5	75
34	Energy-efficiency building retrofit planning for green building compliance. Building and Environment, 2018, 136, 312-321.	3.0	73
35	Estimation of HIV/AIDS parameters. Automatica, 2003, 39, 1983-1988.	3.0	71
36	Optimization of mine ventilation fan speeds according to ventilation on demand and time of use tariff. Applied Energy, 2015, 146, 65-73.	5.1	70

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37	Energy-efficient predictive control of indoor thermal comfort and air quality in a direct expansion air conditioning system. Applied Energy, 2017, 195, 439-452.	5.1	69
38	Large-scale building energy efficiency retrofit: Concept, model and control. Energy, 2016, 109, 456-465.	4.5	68
39	Asymmetric supercapacitor based on activated expanded graphite and pinecone tree activated carbon with excellent stability. Applied Energy, 2017, 207, 417-426.	5.1	68
40	Mathematical description for the measurement and verification of energy efficiency improvement. Applied Energy, 2013, 111, 247-256.	5.1	67
41	Improving building energy efficiency by multiobjective neighborhood field optimization. Energy and Buildings, 2015, 87, 45-56.	3.1	67
42	Energy consumption of air conditioners at different temperature set points. Energy and Buildings, 2013, 65, 412-418.	3.1	65
43	An improved robust model for generator maintenance scheduling. Electric Power Systems Research, 2012, 92, 29-36.	2.1	64
44	Optimal power dispatch of a grid tied-battery-photovoltaic system supplying heat pump water heaters. Energy Conversion and Management, 2015, 102, 81-91.	4.4	63
45	Optimal control of a windâ€“PV-hybrid powered heat pump water heater. Applied Energy, 2017, 185, 1173-1184.	5.1	63
46	Evolutionary game theoretic demand-side management and control for a class of networked smart grid. Automatica, 2016, 70, 94-100.	3.0	60
47	Adaptive Model Predictive Control for Unconstrained Discrete-Time Linear Systems With Parametric Uncertainties. IEEE Transactions on Automatic Control, 2016, 61, 3171-3176.	3.6	59
48	Optimal switching renewable energy system for demand side management. Solar Energy, 2015, 114, 278-288.	2.9	55
49	Optimal energy control of grid tied PVâ€“dieselâ€“battery hybrid system powering heat pump water heater. Solar Energy, 2015, 115, 243-254.	2.9	55
50	Optimal maintenance planning for building energy efficiency retrofitting from optimization and control system perspectives. Energy and Buildings, 2015, 96, 299-308.	3.1	55
51	Optimal sizing and operation of pumping systems to achieve energy efficiency and load shifting. Electric Power Systems Research, 2012, 86, 41-50.	2.1	54
52	A model predictive control approach to the periodic implementation of the solutions of the optimal dynamic resource allocation problem. Automatica, 2011, 47, 358-362.	3.0	53
53	Implementing a model predictive control strategy on the dynamic economic emission dispatch problem with game theory based demand response programs. Energy, 2015, 91, 404-419.	4.5	53
54	Energy Efficiency and Control Systemsâ€“from a POET Perspective. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 255-260.	0.4	51

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55	Finite time dual neural networks with a tunable activation function for solving quadratic programming problems and its application. Neurocomputing, 2014, 143, 80-89.	3.5	51
56	A Parametric Energy Model for Energy Management of Long Belt Conveyors. Energies, 2015, 8, 13590-13608.	1.6	48
57	Model predictive control of heat pump water heater-instantaneous shower powered with integrated renewable-grid energy systems. Applied Energy, 2017, 204, 1333-1346.	5.1	47
58	Continuous observer design for a class of multi-output nonlinear systems with multi-rate sampled and delayed output measurements. Automatica, 2017, 75, 127-132.	3.0	46
59	Can HIV/AIDS be controlled? Applying control engineering concepts outside traditional fields. IEEE Control Systems, 2005, 25, 80-83.	1.0	45
60	Optimal energy-water management in urban residential buildings through grey water recycling. Sustainable Cities and Society, 2017, 32, 654-668.	5.1	44
61	Optimal energy management for a jaw crushing process in deep mines. Energy, 2014, 68, 337-348.	4.5	43
62	Multi-timescale Forecast of Solar Irradiance Based on Multi-task Learning and Echo State Network Approaches. IEEE Transactions on Industrial Informatics, 2021, 17, 300-310.	7.2	43
63	Techno-economic and environmental optimization of a household photovoltaic-battery hybrid power system within demand side management. Renewable Energy, 2017, 108, 132-143.	4.3	42
64	<xml:math altimg="si2.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	3.0	41
65	Optimal maintenance planning for sustainable energy efficiency lighting retrofit projects by a control system approach. Control Engineering Practice, 2015, 37, 1-10.	3.2	41
66	Modeling and Control of Heavy-Haul Trains [Applications of Control]. IEEE Control Systems, 2011, 31, 18-31.	1.0	40
67	A hierarchical predictive control for supercapacitor-retrofitted grid-connected hybrid renewable systems. Applied Energy, 2019, 242, 393-402.	5.1	40
68	A tutorial on biomedical process control. Journal of Process Control, 2007, 17, 571-572.	1.7	38
69	Adaptive Synchronization for Generalized Lorenz Systems. IEEE Transactions on Automatic Control, 2008, 53, 1740-1746.	3.6	37
70	Development of Efficient Model Predictive Control Strategy for Cost-Optimal Operation of a Water Pumping Station. IEEE Transactions on Control Systems Technology, 2013, 21, 1449-1454.	3.2	37
71	Optimal flow control of a forced circulation solar water heating system with energy storage units and connecting pipes. Renewable Energy, 2016, 89, 108-124.	4.3	37
72	Adaptive leaderless consensus of agents in jointly connected networks. Neurocomputing, 2017, 241, 64-70.	3.5	37

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73	Desiccant wheel thermal performance modeling for indoor humidity optimal control. Applied Energy, 2013, 112, 999-1005.	5.1	36
74	An Integer Programming Approach for Truck-Shovel Dispatching Problem in Open-Pit Mines. Energy Procedia, 2015, 75, 1779-1784.	1.8	36
75	Sustainable energy-water management for residential houses with optimal integrated grey and rain water recycling. Journal of Cleaner Production, 2018, 170, 1151-1166.	4.6	36
76	Hierarchical model predictive control of Venlo-type greenhouse climate for improving energy efficiency and reducing operating cost. Journal of Cleaner Production, 2020, 264, 121513.	4.6	36
77	Analysing the economic benefit of electricity price forecast in industrial load scheduling. Electric Power Systems Research, 2014, 116, 158-165.	2.1	35
78	Model predictive control strategy of energy-water management in urban households. Applied Energy, 2016, 179, 821-831.	5.1	35
79	Decentralized finite-time adaptive consensus of multiagent systems with fixed and switching network topologies. Neurocomputing, 2017, 219, 59-67.	3.5	35
80	A Real-Time Energy Management and Speed Controller for an Electric Vehicle Powered by a Hybrid Energy Storage System. IEEE Transactions on Industrial Informatics, 2020, 16, 6272-6280.	7.2	34
81	Energy management of commercial buildings â€“ A case study from a POET perspective of energy efficiency. Journal of Energy in Southern Africa, 2012, 23, 23-31.	0.5	34
82	Improving energy efficiency of cyclone circuits in coal beneficiation plants by pump-storage systems. Applied Energy, 2014, 119, 306-313.	5.1	33
83	Fault-tolerant control of heavy-haul trains. Vehicle System Dynamics, 2010, 48, 705-735.	2.2	32
84	An optimal model for a building retrofit with LEED standard as reference protocol. Energy and Buildings, 2017, 139, 22-30.	3.1	32
85	Optimal control of heat pump water heater-instantaneous shower using integrated renewable-grid energy systems. Applied Energy, 2017, 201, 332-342.	5.1	31
86	A Model Predictive Control approach to dynamic economic dispatch problem. , 2009, , .		30
87	Optimal hoist scheduling of a deep level mine twin rock winder system for demand side management. Electric Power Systems Research, 2011, 81, 1088-1095.	2.1	30
88	On Nonregular Feedback Linearization**An earlier version of this paper was presented at the IFAC Conference on System Structure and Control, held in Nantes, France during 5â€“7 July 1995. The Published Proceedings of this IFAC Meeting may be ordered from: Elsevier Science Limited, The Boulevard, Langford Lane, Kidlington Oxford OX5 1GB, U.K. The paper was recommended for publication in revised form by Associate Editor Henk Nijmeijer under the direction of Editor Tamer BaÅŸar.. Automatica, 1997, 33, 1339-1344.	3.0	29
89	Improvements to longitudinal Clean Development Mechanism sampling designs for lighting retrofit projects. Applied Energy, 2014, 126, 256-265.	5.1	29
90	An autonomous hierarchical control for improving indoor comfort and energy efficiency of a direct expansion air conditioning system. Applied Energy, 2018, 221, 450-463.	5.1	29

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91	Introducing HIV/AIDS Education Into the Electrical Engineering Curriculum at the University of Pretoria. IEEE Transactions on Education, 2004, 47, 65-73.	2.0	28
92	A Multi-objective Optimization Model for Building Envelope Retrofit Planning. Energy Procedia, 2015, 75, 1299-1304.	1.8	28
93	Building retrofit optimization models using notch test data considering energy performance certificate compliance. Applied Energy, 2018, 228, 2140-2152.	5.1	28
94	Optimal sampling plan for clean development mechanism energy efficiency lighting projects. Applied Energy, 2013, 112, 1006-1015.	5.1	27
95	Explainable artificial intelligence for building energy performance certificate labelling classification. Journal of Cleaner Production, 2022, 355, 131626.	4.6	27
96	On the bound of the Lyapunov exponents for continuous systems. Chaos, 2004, 14, 557-561.	1.0	26
97	Measurement uncertainty in energy monitoring: Present state of the art. Renewable and Sustainable Energy Reviews, 2018, 82, 2791-2805.	8.2	26
98	Optimisation Approach Toward Water Management and Energy Security in Arid/Semiarid Regions. Environmental Processes, 2021, 8, 1455-1480.	1.7	26
99	Periodic Orbits From<tex>$Delta$</tex>-Modulation of Stable Linear Systems. IEEE Transactions on Automatic Control, 2004, 49, 1376-1380.	3.6	25
100	Modelling of HIV infection: Vaccine readiness, drug effectiveness and therapeutical failures. Journal of Process Control, 2007, 17, 253-260.	1.7	25
101	Active power residential non-intrusive appliance load monitoring system. , 2009, , .		25
102	Short Communication: Viral Dynamics and CD4+ T Cell Counts in Subtype C Human Immunodeficiency Virus Type 1-Infected Individuals from Southern Africa. AIDS Research and Human Retroviruses, 2005, 21, 285-291.	0.5	24
103	Industrial energy systems in view of energy efficiency and operation control. Annual Reviews in Control, 2016, 42, 299-308.	4.4	24
104	Continuous output feedback stabilization for nonlinear systems based on sampled and delayed output measurements. International Journal of Robust and Nonlinear Control, 2016, 26, 3075-3087.	2.1	24
105	Optimal and energy efficient operation of conveyor belt systems with downhill conveyors. Energy Efficiency, 2017, 10, 405-417.	1.3	24
106	Energy-water optimization model incorporating rooftop water harvesting for lawn irrigation. Applied Energy, 2015, 160, 521-531.	5.1	23
107	Optimal operation of smart multi-energy hub systems incorporating energy hub coordination and demand response strategy. Journal of Renewable and Sustainable Energy, 2017, 9, .	0.8	23
108	Mathematical Modeling of HIV Dynamics After Antiretroviral Therapy Initiation: A Review. BioResearch Open Access, 2014, 3, 233-241.	2.6	22

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109	Optimal Scheduling Strategy for a Grid-connected Photovoltaic System for Heat Pump Water Heaters. Energy Procedia, 2014, 61, 1511-1514.	1.8	21
110	A Multistate-Based Control System Approach Toward Optimal Maintenance Planning. IEEE Transactions on Control Systems Technology, 2017, 25, 374-381.	3.2	21
111	Tariff-driven demand side management of green ship. Solar Energy, 2018, 170, 991-1000.	2.9	21
112	Optimal Control of a Hybrid Battery/Supercapacitor Storage for Neighborhood Electric Vehicles. Energy Procedia, 2017, 105, 2145-2150.	1.8	21
113	A combined dynamic economic emission dispatch and time of use demand response mathematical modelling framework. Journal of Renewable and Sustainable Energy, 2015, 7, .	0.8	20
114	Estimate and characterize PV power at demand-side hybrid system. Applied Energy, 2018, 218, 66-77.	5.1	20
115	Optimized response to electricity time-of-use tariff of a compressed natural gas fuelling station. Applied Energy, 2018, 222, 244-256.	5.1	20
116	Energy-maintenance optimization for retrofitted lighting system incorporating luminous flux degradation to enhance visual comfort. Applied Energy, 2020, 261, 114379.	5.1	20
117	Asymmetric Carbon Supercapacitor with Activated Expanded Graphite as Cathode and Pinecone Tree Activated Carbon as Anode Materials. Energy Procedia, 2017, 105, 4098-4103.	1.8	20
118	Dynamical Behaviors of an Euler Discretized Sliding Mode Control Systems. IEEE Transactions on Automatic Control, 2014, 59, 2525-2529.	3.6	19
119	Operation efficiency optimisation modelling and application of model predictive control. IEEE/CAA Journal of Automatica Sinica, 2015, 2, 166-172.	8.5	19
120	Optimal Scheduling of Household Appliances Incorporating Appliance Coordination. Energy Procedia, 2014, 61, 198-202.	1.8	18
121	Optimal sampling plan for clean development mechanism lighting projects with lamp population decay. Applied Energy, 2014, 136, 1184-1192.	5.1	18
122	A Dual-loop Model Predictive Voltage Control/Sliding-mode Current Control for Voltage Source Inverter Operation in Smart Microgrids. Electric Power Components and Systems, 2014, 42, 348-360.	1.0	18
123	Lyapunovâ€based adaptive model predictive control for unconstrained nonâ€linear systems with parametric uncertainties. IET Control Theory and Applications, 2016, 10, 1937-1943.	1.2	18
124	Output consensus of multiâ€agent systems with delayed and sampledâ€data. IET Control Theory and Applications, 2017, 11, 632-639.	1.2	18
125	A design approach for multiple drive belt conveyors minimizing life cycle costs. Journal of Cleaner Production, 2018, 201, 526-541.	4.6	18
126	Optimization of the Operational Cost and Environmental Impact of a Multi-Microgrid System. Energy Procedia, 2019, 158, 3827-3832.	1.8	18

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127	IDENTIFIABILITY OF HIV/AIDS MODELS. , 2005, , 255-286.		18
128	Coordinated two-stage volt/var management in distribution networks. Electric Power Systems Research, 2016, 141, 157-164.	2.1	17
129	A Comparative Study on the Cost-effective Belt Conveyors for Bulk Material Handling. Energy Procedia, 2017, 142, 2754-2760.	1.8	17
130	Constrained Adaptive Model-Predictive Control for a Class of Discrete-Time Linear Systems With Parametric Uncertainties. IEEE Transactions on Automatic Control, 2020, 65, 2223-2229.	3.6	17
131	Distributed control of nonlinear stochastic multi-agent systems with external disturbance and time-delay via event-triggered strategy. Neurocomputing, 2021, 452, 275-283.	3.5	17
132	Combined Heat and Power Dynamic Economic Dispatch with Emission Limitations Using Hybrid DE-SQP Method. Abstract and Applied Analysis, 2013, 2013, 1-10.	0.3	16
133	Optimal Energy Management Strategy for Distributed Energy Resources. Energy Procedia, 2014, 61, 1331-1334.	1.8	16
134	Continuous observer design for nonlinear systems with sampled and delayed output measurements. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 269-274.	0.4	16
135	A Portfolio Approach of Demand Side Management. IFAC-PapersOnLine, 2017, 50, 171-176.	0.5	16
136	Bayesian Energy Measurement and Verification Analysis. Energies, 2018, 11, 380.	1.6	16
137	Model predictive control of a Venlo-type greenhouse system considering electrical energy, water and carbon dioxide consumption. Applied Energy, 2021, 298, 117163.	5.1	16
138	A new energy calculation model of belt conveyor. , 2009, , .		15
139	Optimal metering plan for measurement and verification on a lighting case study. Energy, 2016, 95, 580-592.	4.5	15
140	Low-cost energy meter calibration method for measurement and verification. Applied Energy, 2017, 188, 563-575.	5.1	15
141	Distributed control for a multi-evaporator air conditioning system. Control Engineering Practice, 2019, 90, 85-100.	3.2	15
142	Medium Density Control for Coal Washing Dense Medium Cyclone Circuits. IEEE Transactions on Control Systems Technology, 2015, 23, 1117-1122.	3.2	14
143	Optimal control of conventional hydropower plant retrofitted with a cascaded pumpback system powered by an on-site hydrokinetic system. Energy Conversion and Management, 2017, 132, 438-451.	4.4	14
144	On delta-modulated control: A simple system with complex dynamics. Chaos, Solitons and Fractals, 2007, 33, 1314-1328.	2.5	13

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145	Control problems in building energy retrofit and maintenance planning. Annual Reviews in Control, 2017, 44, 78-88.	4.4	13
146	Distributed optimization of multi-agent systems with delayed sampled-data. Neurocomputing, 2018, 296, 100-108.	3.5	13
147	Tuning the Nanoporous Structure of Carbons Derived from the Composite of Cross-Linked Polymers for Charge Storage Applications. ACS Applied Energy Materials, 2021, 4, 1763-1773.	2.5	13
148	Improving the Security of Chaotic Synchronization With a $Delta$-Modulated Cryptographic Technique. IEEE Transactions on Circuits and Systems II: Express Briefs, 2008, 55, 680-684.	2.2	12
149	Optimal scheduling of conveyor belt systems under Critical Peak Pricing. , 2012, , .		12
150	Adaptive Parameter Estimation for an Energy Model of Belt Conveyor with <scp>DC</scp> Motor. Asian Journal of Control, 2014, 16, 1122-1132.	1.9	12
151	Optimal Power Control of Grid Tied PV-battery-diesel System Powering Heat Pump Water Heaters. Energy Procedia, 2015, 75, 1514-1521.	1.8	12
152	How information propagation in social networks can improve energy savings based on time of use tariff. Sustainable Cities and Society, 2015, 19, 26-33.	5.1	12
153	Optimal Operation of Integrated Heat Pump-instant Water Heaters with Renewable Energy. Energy Procedia, 2017, 105, 2151-2156.	1.8	12
154	Periodic orbits arising from Delta-modulated feedback control. Chaos, Solitons and Fractals, 2004, 19, 581-595.	2.5	11
155	A high-gain-based global finite-time nonlinear observer. International Journal of Control, 2013, 86, 759-767.	1.2	11
156	Energy Efficiency of Overhead Cranes. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 19-24.	0.4	11
157	Model Predictive Control for Energy Dispatch of a Photovoltaic-Diesel-Battery Hybrid Power System. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 11135-11140.	0.4	11
158	A Dual-Loop Control System for Dense Medium Coal Washing Processes With Sampled and Delayed Measurements. IEEE Transactions on Control Systems Technology, 2017, 25, 2211-2218.	3.2	11
159	Hierarchical Power Flow Control of a Grid-tied Photovoltaic Plant Using a Battery-Supercapacitor Energy Storage System. Energy Procedia, 2018, 145, 32-37.	1.8	11
160	Biogas potential determination and production optimisation through optimal substrate ratio feeding in co-digestion of water hyacinth, municipal solid waste and cow dung. Biofuels, 2022, 13, 631-641.	1.4	11
161	Minimum cost solution to residential energy-water nexus through rainwater harvesting and greywater recycling. Journal of Cleaner Production, 2021, 298, 126742.	4.6	11
162	Control of a battery/supercapacitor hybrid energy storage system for electric vehicles. , 2017, , .		10

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163	Optimal operation of heavy haul trains using model predictive control methodology. , 2011, , .		9
164	Characterising Compact Fluorescent Lamp population decay. , 2013, , .		9
165	Hybrid DE-SQP Method for Solving Combined Heat and Power Dynamic Economic Dispatch Problem. Mathematical Problems in Engineering, 2013, 2013, 1-7.	0.6	9
166	Mathematical modelling for the social impact to energy efficiency savings. Energy and Buildings, 2014, 84, 344-351.	3.1	9
167	Modelling of coal trade process for the logistics enterprise and its optimisation with stochastic predictive control. International Journal of Production Research, 2016, 54, 2241-2259.	4.9	9
168	Active nonlinear partial-state feedback control of contacting force for a pantographâ€“catenary system. ISA Transactions, 2019, 91, 78-89.	3.1	9
169	Complex Dynamics of Systems Under Delta-Modulated Feedback. IEEE Transactions on Automatic Control, 2006, 51, 1888-1902.	3.6	8
170	Periodic orbits arising from two-level quantized feedback control. Chaos, Solitons and Fractals, 2007, 33, 1339-1347.	2.5	8
171	A Model Predictive Control for Coal Beneficiation Dense Medium Cyclones. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 9810-9815.	0.4	8
172	Integrated Energy Management of Grid-tied-PV-fuel Cell Hybrid System. Energy Procedia, 2016, 103, 111-116.	1.8	8
173	Optimization of a compressed natural gas station operation to minimize energy cost. Energy Procedia, 2017, 142, 2003-2008.	1.8	8
174	A power dispatch model for a ferrochrome plant heat recovery cogeneration system. Applied Energy, 2018, 227, 180-189.	5.1	8
175	Feasibility study of embedded piezoelectric generator system on a highway for street lights electrification. Energy Procedia, 2018, 152, 1015-1020.	1.8	8
176	Best switching time of hot water cylinder-switched optimal control approach. , 2007, , .		7
177	Mathematical Modeling of HIV Dynamics After Antiretroviral Therapy Initiation: A Clinical Research Study. AIDS Research and Human Retroviruses, 2014, 30, 831-834.	0.5	7
178	Optimal energy cost management of a CNG fuelling station. IFAC-PapersOnLine, 2017, 50, 94-97.	0.5	7
179	A Hierarchical Optimisation of a Compressed Natural Gas Station for Energy and Fuelling Efficiency under a Demand Response Program. Energies, 2019, 12, 2165.	1.6	7
180	Co-digestion of water hyacinth, municipal solid waste and cow dung: A methane optimised biogasâ€“liquid petroleum gas hybrid system. Applied Energy, 2021, 304, 117716.	5.1	7

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181	Periodicity in Delta-modulated feedback control. Journal of Control Theory and Applications, 2008, 6, 37-44.	0.8	6
182	Global Finite-time Observers for a Class of Non-Lipschitz Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 703-708.	0.4	6
183	Optimal Integrated Diesel Grid-renewable Energy System for Hot Water Devices. Energy Procedia, 2016, 103, 117-122.	1.8	6
184	A MILP Model for Truck-shovel Scheduling to Minimize Fuel Consumption. Energy Procedia, 2017, 105, 2739-2745.	1.8	6
185	Efficient metering and surveying sampling designs in longitudinal Measurement and Verification for lighting retrofit. Energy and Buildings, 2017, 154, 430-447.	3.1	6
186	Cost optimization design approach for multiple drive belt conveyors. , 2017, , .		6
187	Three dimensional modelling of the components in supercapacitors for proper understanding of the contribution of each parameter to the final electrochemical performance. Journal of Materials Chemistry A, 2018, 6, 17481-17487.	5.2	6
188	Optimal Sizing and Power Sharing of Distributed Hybrid Renewable Energy Systems Considering Socio-Demographic Factors. Energy Procedia, 2019, 159, 340-345.	1.8	6
189	IV. Structured treatment interruptions: A control mathematical approach to protocol design. Journal of Process Control, 2007, 17, 586-590.	1.7	5
190	Short-term wind power prediction using Least-Square Support Vector Machines. , 2012, , .		5
191	A Preliminary Study on the Robustness of Grouping Based Maintenance Plan Optimization in Building Retrofitting. Energy Procedia, 2017, 105, 3308-3313.	1.8	5
192	Optimal energy mix of a microhydro-wind-grid system powering a dairy farm in Western Cape, South Africa.. Energy Procedia, 2017, 142, 708-715.	1.8	5
193	A cost-effective approach to handle measurement and verification uncertainties of energy savings. Energy, 2017, 141, 1600-1609.	4.5	5
194	Distributed Energy Dispatch of Electrical Energy Storage Systems Using Consensus Control Approach. IFAC-PapersOnLine, 2018, 51, 229-234.	0.5	5
195	An Optimization Approach for Shovel Allocation to Minimize Fuel Consumption in Open-pit Mines: Case of Heterogeneous Fleet of Shovels.. IFAC-PapersOnLine, 2019, 52, 207-212.	0.5	5
196	Maintenance optimization incorporating lumen degradation failure for energy-efficient lighting retrofit projects. Applied Energy, 2020, 267, 115003.	5.1	5
197	Towards Cognitive EV Charging Stations Enabled by Digital Twin and Parallel Intelligence. , 2021, , .		5
198	Optimal Sampling and Maintenance Plans for the Lighting Retrofit Projects Towards Sustainable Energy Savings. Energy Procedia, 2014, 61, 648-651.	1.8	4

#	Article	IF	Citations
199	Nonlinear Trajectory Tracking Control for Heavy-Haul Trains. IFAC-PapersOnLine, 2015, 48, 41-46.	0.5	4
200	Model predictive control for optimizing indoor air temperature and humidity in a direct expansion air conditioning system. , 2015, , .		4
201	Event-triggered group consensus of leader-following multi-agent systems with nonlinear dynamics. , 2016, , .		4
202	Efficient longitudinal population survival survey sampling for the measurement and verification of lighting retrofit projects. Energy and Buildings, 2017, 150, 163-176.	3.1	4
203	A reduced model for direct expansion air conditioning system and energy efficiency MPC control of indoor climate. , 2017, , .		4
204	Design and characterization of asymmetric supercapacitor useful in hybrid energy storage systems for electric vehicles. IFAC-PapersOnLine, 2017, 50, 83-87.	0.5	4
205	Compressor and priority panel optimization for an energy efficient CNG fuelling station. , 2017, , .		4
206	Multi-Zone Building Temperature Control and Energy Efficiency Using Autonomous Hierarchical Control Strategy. , 2018, , .		4
207	Transient State Modelling and Experimental Investigation of the Thermal Behavior of a Vapor Compression System. Mathematical Problems in Engineering, 2021, 2021, 1-14.	0.6	4
208	Robust Synchronization of a Class of Nonlinear Systems: Applications to Chaotic Coupled Electromechanical Systems. JVC/Journal of Vibration and Control, 2008, 14, 531-551.	1.5	3
209	Geometric Steady States of Nonlinear Systems. IEEE Transactions on Automatic Control, 2010, 55, 1448-1454.	3.6	3
210	Global asymptotical stability and global finite-time stability for nonlinear homogeneous systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 4644-4647.	0.4	3
211	A high-gain-based global finite-time nonlinear observer. , 2011, , .		3
212	Optimisation of mine ventilation fan speeds on demand. , 2014, , .		3
213	Optimal control of maintenance instants and intensities in building energy efficiency retrofitting project. , 2015, , .		3
214	Magnetite and water addition control for a dense medium coal washing circuit. , 2015, , .		3
215	Gameâ€theoretic demandâ€side management and closedâ€loop control for a class of networked smart grid. IET Control Theory and Applications, 2017, 11, 2170-2176.	1.2	3
216	Optimal tank sizing and operation of energy-water supply systems in residences. Energy Procedia, 2019, 159, 352-357.	1.8	3

#	Article	IF	Citations
217	Effect of radiation on the performance of activated carbon base supercapacitor: Part I. Influence of microwave irradiation exposure on electrodes material. Energy Procedia, 2019, 158, 4554-4559.	1.8	3
218	Distributed eventâ€triggered output feedback Hâˆž control for multiâ€agent systems with transmission delays. IET Control Theory and Applications, 2021, 15, 1646-1660.	1.2	3
219	A parameterization approach to disturbance decoupling problem with stability of nonlinear systems. Automatica, 1996, 32, 607-610.	3.0	2
220	A semi-discrete approach to modelling and control of the continuous casting process. Steel Research = Archiv FÃ¼r Das EisenhÃ¼ttenwesen, 2000, 71, 220-227.	0.2	2
221	Geometric characterization on the solvability of regulator equations. Automatica, 2008, 44, 445-450.	3.0	2
222	On the application of parameter identifiability to the security of chaotic synchronization. , 2008, , .		2
223	A less conservative method for average consensus with multiple time-varying delays. , 2011, , .		2
224	Characterizing long memories in electric water heater power consumption time series. , 2011, , .		2
225	Optimal schedule of photovoltaic-battery hybrid system at demand side. , 2014, , .		2
226	Decentralized adaptive consensus of multi-agent in networks with switching topologies. , 2014, , .		2
227	Optimal lighting project maintenance planning by a control system approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 3152-3157.	0.4	2
228	An Optimization Model for Reducing Energy Usage of Coal Washing Plants. Energy Procedia, 2014, 61, 1017-1020.	1.8	2
229	An optimal maintenance plan for building envelope insulation materials after retrofitting. , 2015, , .		2
230	Optimal Control of Hydrokinetic-powered Pumpback System for a Hydropower Plant in Dry Season: A Case Study. Energy Procedia, 2017, 105, 94-101.	1.8	2
231	Demand-side management and control for a class of smart grids based on game theory. , 2017, , .		2
232	Distributed energy dispatch of electrical energy storage systems. , 2017, , .		2
233	An optimization model for building envelope retrofit considering energy performance certificate. , 2017, , .		2
234	Distributed illumination control of LED networked systems via local occupancy information. , 2017, , .		2

#	Article	IF	Citations
235	Lighting retrofit and maintenance models with decay and adaptive control. IET Control Theory and Applications, 2018, 12, 593-600.	1.2	2
236	Receding Horizon Operation Control of a Compressed Natural Gas Station. Energy Procedia, 2019, 158, 2853-2858.	1.8	2
237	A New Planar Path-Following Control for Non-Holonomic Systems. , 2019, , .		2
238	Optimal maintenance planning in building retrofitting with interacting energy effects. Optimal Control Applications and Methods, 2020, 41, 2023-2036.	1.3	2
239	Building Energy Performance Certificate Labelling Classification Based onÂExplainable Artificial Intelligence. Communications in Computer and Information Science, 2021, , 181-196.	0.4	2
240	Globally uniformly ultimately bounded observer design for a class of nonlinear systems with sampled and delayed measurements. Kybernetika, 0, , 441-460.	0.0	2
241	Parameter variations in nonlinear decoupling. , 0, , .		1
242	Identifiability Problems of Time-delay HIV Models. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 283-288.	0.4	1
243	An MPC approach to deep level mine rock winder hoist control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 249-254.	0.4	1
244	Semi-global nite-time observers for a class of non-Lipschit systems *. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 421-426.	0.4	1
245	Maximization of social welfare in distribution network with distributed generations using genetic algorithm. , 2011, , .		1
246	Nonlinear adaptive observers with finite-time convergence for a class of Lipschitz nonlinear systems. , 2012, , .		1
247	Decomposed Model Predictive Control for Economic Dispatch problems. , 2013, , .		1
248	Adaptive synchronization of multi-agent systems with unknown nonlinear dynamics. , 2013, , .		1
249	Indoor Human Thermal Comfort Optimal Control with Desiccant Wheel Cooling System. Energy Procedia, 2014, 61, 882-886.	1.8	1
250	Predictive control for thermal comfort and energy efficiency in a direct expansion air conditioning system. , 2015, , .		1
251	Maintenance plan optimization in building retrofitting with interacting energy efficiency effects. , 2015, , .		1
252	Economic Dispatch of a Grid-connected Cogeneration Ferrochrome Plant. Energy Procedia, 2017, 105, 1974-1979.	1.8	1

#	Article	IF	Citations
253	Interactive Dynamics in Building Maintenance and Retrofit. Energy Procedia, 2017, 105, 3363-3368.	1.8	1
254	Nonlinear model reduction for direct expansion air conditioning and MPC control of indoor climate and energy efficiency. , 2017, , .		1
255	Energy optimisations in large-scale lighting retrofit projects. , 2017, , .		1
256	Model predictive control strategy of energy cost management for a compressed natural gas fuelling station. IFAC-PapersOnLine, 2018, 51, 851-855.	0.5	1
257	A Consensus-Based Dispatch Algorithm of Constrained Electrical Energy Storage Systems. , 2018, , .		1
258	Optimal dispatch of grid and natural gas generator power in a scheduled compressed natural gas fuelling station. , 2019, , .		1
259	A Competitive Swarm Optimizer-Based Technoeconomic Optimization with Appliance Scheduling in Domestic PV-Battery Hybrid Systems. Complexity, 2019, 2019, 1-15.	0.9	1
260	Optimal control of a variable speed drive compressor for energy efficiency of a compressed natural gas station. , 2019, , .		1
261	Chaotic attractor of the controlled HeËŠnon map. , 0, , .		0
262	Î”-MODULATED FEEDBACK IN DISCRETIZATION OF SLIDING MODE CONTROL. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 705-710.	0.4	0
263	A MODEL BASED ANALYSIS OF ANTI-CD4 THERAPY AS ADJUVANT TO HAART INTERRUPTION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 131-136.	0.4	0
264	MODELLING OF HIV INFECTION: VACCINE READINESS, DRUG EFFECTIVENESS AND THERAPEUTICAL FAILURES. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 485-492.	0.4	0
265	Steady States of Nonlinear Systems. , 2007, , .		0
266	Adaptive synchronization for a class of chaotic system. , 2007, , .		0
267	Correction to â€œAdaptive Synchronization for Generalized Lorenz Systemsâ€• IEEE Transactions on Automatic Control, 2008, 53, 2216-2216.	3.6	0
268	A chaos-based CDMA scheme with a chaos-based encryption algorithm. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 110-115.	0.4	0
269	Mathematical description of the performance measurement and verification. , 2011, , .		0
270	Semi-global finite-time observers for a class of MIMO nonlinear systems. , 2012, , .		0

#	Article	IF	Citations
271	Optimal meter commitment solutions to CDM energy effciency lighting projects. , 2013, , .		0
272	Social influence and energy efficiency savings. , 2013, , .		0
273	Adaptive consensus of multi-agent systems with unknown nonlinear dynamics. , 2013, , .		0
274	A Control System Approach to Corrective Maintenance Planning of Building Retrofitted Facilities. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 12056-12061.	0.4	0
275	Nonlinear model predictive control with semi-contracting constraint and generalized terminal constraint. , 2015, , .		0
276	Coal washing plant cyclone module control with a pump-storage system. , 2015, , .		0
277	Switching control for renewable hybrid systems. , 2015, , .		0
278	Effect of radiation on the performance of activated carbon base supercapacitor: Part II. Influence of electron irradiation exposure on full cell. Energy Procedia, 2019, 158, 4560-4565.	1.8	0
279	Distributed resource allocation for multi-zone commercial buildings. Energy Procedia, 2019, 158, 2872-2877.	1.8	0
280	Dynamic State Feedback Decoupling of a DX A/C System. IFAC-PapersOnLine, 2019, 52, 406-411.	0.5	0
281	Hierarchical model predictive control of greenhouse climate to reduce energy cost. , 2020, , .		0