Xiaohua Xia

List of Publications by Citations

252 papers	**6,471** citations
44 h-index	**70** g-index
291 ext. papers	**7,953** ext. citations
5.4 avg, IF	**6.84** L-index

#	Paper	IF	Citations
252	ON IDENTIFIABILITY OF NONLINEAR ODE MODELS AND APPLICATIONS IN VIRAL DYNAMICS. *SIAM Review*, **2011**, 53, 3-39	7.4	286
251	Optimal scheduling of household appliances for demand response. *Electric Power Systems Research*, **2014**, 116, 24-28	3.5	204
250	Optimal dispatch for a microgrid incorporating renewables and demand response. *Renewable Energy*, **2017**, 101, 16-28	8.1	182
249	Adaptive consensus of multi-agents in networks with jointly connected topologies. *Automatica*, **2012**, 48, 1783-1790	5.7	179
248	Semi-global finite-time observers for nonlinear systems. *Automatica*, **2008**, 44, 3152-3156	5.7	179
247	Demand side management of photovoltaic-battery hybrid system. *Applied Energy*, **2015**, 148, 294-304	10.7	159
246	Minimum cost solution of photovoltaic–diesel–battery hybrid power systems for remote consumers. *Solar Energy*, **2013**, 96, 292-299	6.8	130
245	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	10.7	124
244	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	10.6	123
243	A multi-objective optimization model for the life-cycle cost analysis and retrofitting planning of buildings. *Energy and Buildings*, **2014**, 77, 227-235	7	117
242	Dynamics of Discrete-Time Sliding-Mode-Control Uncertain Systems With a Disturbance Compensator. *IEEE Transactions on Industrial Electronics*, **2014**, 61, 3502-3510	8.9	112
241	An optimal control model for load shifting – With application in the energy management of a colliery. *Applied Energy*, **2009**, 86, 1266-1273	10.7	108
240	A multiple objective optimisation model for building energy efficiency investment decision. *Energy and Buildings*, **2013**, 61, 81-87	7	98
239	Optimal power flow management for distributed energy resources with batteries. *Energy Conversion and Management*, **2015**, 102, 104-110	10.6	95
238	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	4.8	91
237	Energy dispatch strategy for a photovoltaic–wind–diesel–battery hybrid power system. *Solar Energy*, **2014**, 108, 412-420	6.8	90
236	Optimal motion planning for overhead cranes. *IET Control Theory and Applications*, **2014**, 8, 1833-1842	2.5	90

235	Model predictive control for improving operational efficiency of overhead cranes. *Nonlinear Dynamics*, **2015**, 79, 2639-2657	5	87
234	Modeling and energy efficiency optimization of belt conveyors. *Applied Energy*, **2011**, 88, 3061-3071	10.7	86
233	A model predictive control strategy for load shifting in a water pumping scheme with maximum demand charges. *Applied Energy*, **2011**, 88, 4785-4794	10.7	80
232	Optimal control of operation efficiency of belt conveyor systems. *Applied Energy*, **2010**, 87, 1929-1937	10.7	80
231	Adaptive finite-time consensus in multi-agent networks. *Systems and Control Letters*, **2013**, 62, 880-889	2.4	77
230	Analysis of nonlinear time-delay systems using modules over non-commutative rings. *Automatica*, **2002**, 38, 1549-1555	5.7	77
229	An application of model predictive control to the dynamic economic dispatch of power generation. *Control Engineering Practice*, **2011**, 19, 638-648	3.9	76
228	Optimal scheduling of household appliances with a battery storage system and coordination. *Energy and Buildings*, **2015**, 94, 61-70	7	75
227	Optimal control of a fuel cell/wind/PV/grid hybrid system with thermal heat pump load. *Solar Energy*, **2016**, 135, 59-69	6.8	70
226	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	4.8	67
225	Optimal operation scheduling of a pumping station with multiple pumps. *Applied Energy*, **2013**, 104, 250-257	10.7	64
224	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	3.5	62
223	Combined residential demand side management strategies with coordination and economic analysis. *International Journal of Electrical Power and Energy Systems*, **2016**, 79, 150-160	5.1	61
222	When to initiate HIV therapy: a control theoretic approach. *IEEE Transactions on Biomedical Engineering*, **2003**, 50, 1213-20	5	61
221	Estimation of HIV/AIDS parameters. *Automatica*, **2003**, 39, 1983-1988	5.7	60
220	Asymmetric supercapacitor based on activated expanded graphite and pinecone tree activated carbon with excellent stability. *Applied Energy*, **2017**, 207, 417-426	10.7	58
219	Large-scale building energy efficiency retrofit: Concept, model and control. *Energy*, **2016**, 109, 456-465	7.9	54
218	An improved robust model for generator maintenance scheduling. *Electric Power Systems Research*, **2012**, 92, 29-36	3.5	52

217	Improving building energy efficiency by multiobjective neighborhood field optimization. *Energy and Buildings*, **2015**, 87, 45-56	7	51
216	Energy-efficient predictive control of indoor thermal comfort and air quality in a direct expansion air conditioning system. *Applied Energy*, **2017**, 195, 439-452	10.7	50
215	Optimal power dispatch of a grid tied-battery-photovoltaic system supplying heat pump water heaters. *Energy Conversion and Management*, **2015**, 102, 81-91	10.6	50
214	Evolutionary game theoretic demand-side management and control for a class of networked smart grid. *Automatica*, **2016**, 70, 94-100	5.7	47
213	Optimal maintenance planning for building energy efficiency retrofitting from optimization and control system perspectives. *Energy and Buildings*, **2015**, 96, 299-308	7	46
212	Optimization of mine ventilation fan speeds according to ventilation on demand and time of use tariff. *Applied Energy*, **2015**, 146, 65-73	10.7	46
211	Optimal energy control of grid tied PV–diesel–battery hybrid system powering heat pump water heater. *Solar Energy*, **2015**, 115, 243-254	6.8	45
210	Mathematical description for the measurement and verification of energy efficiency improvement. *Applied Energy*, **2013**, 111, 247-256	10.7	45
209	Energy-efficiency building retrofit planning for green building compliance. *Building and Environment*, **2018**, 136, 312-321	6.5	44
208	A model predictive control approach to the periodic implementation of the solutions of the optimal dynamic resource allocation problem. *Automatica*, **2011**, 47, 358-362	5.7	42
207	Optimal control of a wind–PV-hybrid powered heat pump water heater. *Applied Energy*, **2017**, 185, 1173-1184	10.7	41
206	Optimal sizing and operation of pumping systems to achieve energy efficiency and load shifting. *Electric Power Systems Research*, **2012**, 86, 41-50	3.5	41
205	Optimal switching renewable energy system for demand side management. *Solar Energy*, **2015**, 114, 278-288	6.8	40
204	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	7.9	40
203	Can HIV/AIDS be controlled? Applying control engineering concepts outside traditional fields. *IEEE Control Systems*, **2005**, 25, 80-83	2.9	39
202	Energy consumption of air conditioners at different temperature set points. *Energy and Buildings*, **2013**, 65, 412-418	7	38
201	Battery energy storage sizing optimisation for different ownership structures in a peer-to-peer energy sharing community. *Applied Energy*, **2020**, 262, 114498	10.7	37
200	Finite time dual neural networks with a tunable activation function for solving quadratic programming problems and its application. *Neurocomputing*, **2014**, 143, 80-89	5.4	37

199	Adaptive Model Predictive Control for Unconstrained Discrete-Time Linear Systems With Parametric Uncertainties. *IEEE Transactions on Automatic Control*, **2016**, 61, 3171-3176	5.9	34
198	Continuous observer design for a class of multi-output nonlinear systems with multi-rate sampled and delayed output measurements. *Automatica*, **2017**, 75, 127-132	5.7	34
197	A tutorial on biomedical process control. *Journal of Process Control*, **2007**, 17, 571-572	3.9	34
196	Optimal energy-water management in urban residential buildings through grey water recycling. *Sustainable Cities and Society*, **2017**, 32, 654-668	10.1	33
195	Optimal maintenance planning for sustainable energy efficiency lighting retrofit projects by a control system approach. *Control Engineering Practice*, **2015**, 37, 1-10	3.9	33
194	. *Automatica*, **2006**, 42, 771-776	5.7	33
193	Model predictive control strategy of energy-water management in urban households. *Applied Energy*, **2016**, 179, 821-831	10.7	32
192	Optimal energy management for a jaw crushing process in deep mines. *Energy*, **2014**, 68, 337-348	7.9	32
191	Energy Efficiency and Control Systems from a POET Perspective. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2010**, 43, 255-260		31
190	Techno-economic and environmental optimization of a household photovoltaic-battery hybrid power system within demand side management. *Renewable Energy*, **2017**, 108, 132-143	8.1	30
189	Analysing the economic benefit of electricity price forecast in industrial load scheduling. *Electric Power Systems Research*, **2014**, 116, 158-165	3.5	30
188	Adaptive Synchronization for Generalized Lorenz Systems. *IEEE Transactions on Automatic Control*, **2008**, 53, 1740-1746	5.9	30
187	A Parametric Energy Model for Energy Management of Long Belt Conveyors. *Energies*, **2015**, 8, 13590-13608	3.0	29
186	Modeling and Control of Heavy-Haul Trains [Applications of Control]. *IEEE Control Systems*, **2011**, 31, 18-31	2.9	29
185	Energy management of commercial buildings A case study from a POET perspective of energy efficiency. *Journal of Energy in Southern Africa*, **2012**, 23, 23-31	1.8	29
184	Adaptive leaderless consensus of agents in jointly connected networks. *Neurocomputing*, **2017**, 241, 64-70	5.4	28
183	Model predictive control of heat pump water heater-instantaneous shower powered with integrated renewable-grid energy systems. *Applied Energy*, **2017**, 204, 1333-1346	10.7	28
182	Improving energy efficiency of cyclone circuits in coal beneficiation plants by pump-storage systems. *Applied Energy*, **2014**, 119, 306-313	10.7	28

181	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	4.8	28
180	Sustainable energy-water management for residential houses with optimal integrated grey and rain water recycling. *Journal of Cleaner Production*, **2018**, 170, 1151-1166	10.3	26
179	Fault-tolerant control of heavy-haul trains. *Vehicle System Dynamics*, **2010**, 48, 705-735	2.8	26
178	Desiccant wheel thermal performance modeling for indoor humidity optimal control. *Applied Energy*, **2013**, 112, 999-1005	10.7	24
177	Decentralized finite-time adaptive consensus of multiagent systems with fixed and switching network topologies. *Neurocomputing*, **2017**, 219, 59-67	5.4	24
176	Optimal hoist scheduling of a deep level mine twin rock winder system for demand side management. *Electric Power Systems Research*, **2011**, 81, 1088-1095	3.5	24
175	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, 285-91	1.6	24
174	Introducing HIV/AIDS education into the electrical engineering curriculum at the University of Pretoria. *IEEE Transactions on Education*, **2004**, 47, 65-73	2.1	24
173	Optimal sampling plan for clean development mechanism energy efficiency lighting projects. *Applied Energy*, **2013**, 112, 1006-1015	10.7	23
172	On the bound of the Lyapunov exponents for continuous systems. *Chaos*, **2004**, 14, 557-61	3.3	23
171	An optimal model for a building retrofit with LEED standard as reference protocol. *Energy and Buildings*, **2017**, 139, 22-30	7	22
170	A hierarchical predictive control for supercapacitor-retrofitted grid-connected hybrid renewable systems. *Applied Energy*, **2019**, 242, 393-402	10.7	22
169	Improvements to longitudinal Clean Development Mechanism sampling designs for lighting retrofit projects. *Applied Energy*, **2014**, 126, 256-265	10.7	22
168	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	11.9	22
167	An Integer Programming Approach for Truck-Shovel Dispatching Problem in Open-Pit Mines. *Energy Procedia*, **2015**, 75, 1779-1784	2.3	21
166	Optimal flow control of a forced circulation solar water heating system with energy storage units and connecting pipes. *Renewable Energy*, **2016**, 89, 108-124	8.1	21
165	Industrial energy systems in view of energy efficiency and operation control. *Annual Reviews in Control*, **2016**, 42, 299-308	10.3	21
164	Energy-water optimization model incorporating rooftop water harvesting for lawn irrigation. *Applied Energy*, **2015**, 160, 521-531	10.7	20

#	Reference	IF	Cites
163	A Multi-objective Optimization Model for Building Envelope Retrofit Planning. *Energy Procedia*, **2015**, 75, 1299-1304	2.3	20
162	An autonomous hierarchical control for improving indoor comfort and energy efficiency of a direct expansion air conditioning system. *Applied Energy*, **2018**, 221, 450-463	10.7	20
161	Building retrofit optimization models using notch test data considering energy performance certificate compliance. *Applied Energy*, **2018**, 228, 2140-2152	10.7	20
160	Active power residential non-intrusive appliance load monitoring system **2009**,		20
159	Modelling of HIV infection: Vaccine readiness, drug effectiveness and therapeutical failures. *Journal of Process Control*, **2007**, 17, 253-260	3.9	20
158	Periodic orbits from /spl Delta/-modulation of stable linear systems. *IEEE Transactions on Automatic Control*, **2004**, 49, 1376-1380	5.9	20
157	Measurement uncertainty in energy monitoring: Present state of the art. *Renewable and Sustainable Energy Reviews*, **2018**, 82, 2791-2805	16.2	19
156	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	3.6	19
155	A Model Predictive Control approach to dynamic economic dispatch problem **2009**,		19
154	Output consensus of multi-agent systems with delayed and sampled-data. *IET Control Theory and Applications*, **2017**, 11, 632-639	2.5	18
153	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 5–7 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	5.7	17
152	Operation efficiency optimisation modelling and application of model predictive control. *IEEE/CAA Journal of Automatica Sinica*, **2015**, 2, 166-172	7	16
151	Coordinated two-stage volt/var management in distribution networks. *Electric Power Systems Research*, **2016**, 141, 157-164	3.5	16
150	Optimal control of heat pump water heater-instantaneous shower using integrated renewable-grid energy systems. *Applied Energy*, **2017**, 201, 332-342	10.7	16
149	A combined dynamic economic emission dispatch and time of use demand response mathematical modelling framework. *Journal of Renewable and Sustainable Energy*, **2015**, 7, 043134	2.5	15
148	Optimized response to electricity time-of-use tariff of a compressed natural gas fuelling station. *Applied Energy*, **2018**, 222, 244-256	10.7	15
147	Mathematical Modeling of HIV Dynamics After Antiretroviral Therapy Initiation: A Review. *BioResearch Open Access*, **2014**, 3, 233-41	2.4	15
146	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	15

145	Optimal operation of smart multi-energy hub systems incorporating energy hub coordination and demand response strategy. *Journal of Renewable and Sustainable Energy*, **2017**, 9, 045501	2.5	15
144	Optimal Scheduling Strategy for a Grid-connected Photovoltaic System for Heat Pump Water Heaters. *Energy Procedia*, **2014**, 61, 1511-1514	2.3	15
143	A Multistate-Based Control System Approach Toward Optimal Maintenance Planning. *IEEE Transactions on Control Systems Technology*, **2017**, 25, 374-381	4.8	14
142	Low-cost energy meter calibration method for measurement and verification. *Applied Energy*, **2017**, 188, 563-575	10.7	14
141	Bayesian Energy Measurement and Verification Analysis. *Energies*, **2018**, 11, 380	3.1	14
140	Optimal Scheduling of Household Appliances Incorporating Appliance Coordination. *Energy Procedia*, **2014**, 61, 198-202	2.3	14
139	Optimal Control of a Hybrid Battery/Supercapacitor Storage for Neighborhood Electric Vehicles. *Energy Procedia*, **2017**, 105, 2145-2150	2.3	14
138	Asymmetric Carbon Supercapacitor with Activated Expanded Graphite as Cathode and Pinecone Tree Activated Carbon as Anode Materials. *Energy Procedia*, **2017**, 105, 4098-4103	2.3	14
137	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	11.9	14
136	Lyapunov-based adaptive model predictive control for unconstrained non-linear systems with parametric uncertainties. *IET Control Theory and Applications*, **2016**, 10, 1937-1943	2.5	14
135	Tariff-driven demand side management of green ship. *Solar Energy*, **2018**, 170, 991-1000	6.8	14
134	Hierarchical model predictive control of Venlo-type greenhouse climate for improving energy efficiency and reducing operating cost. *Journal of Cleaner Production*, **2020**, 264, 121513	10.3	13
133	A design approach for multiple drive belt conveyors minimizing life cycle costs. *Journal of Cleaner Production*, **2018**, 201, 526-541	10.3	13
132	Dynamical Behaviors of an Euler Discretized Sliding Mode Control Systems. *IEEE Transactions on Automatic Control*, **2014**, 59, 2525-2529	5.9	13
131	Optimal sampling plan for clean development mechanism lighting projects with lamp population decay. *Applied Energy*, **2014**, 136, 1184-1192	10.7	13
130	Optimal metering plan for measurement and verification on a lighting case study. *Energy*, **2016**, 95, 580-592	7.9	12
129	On delta-modulated control: A simple system with complex dynamics. *Chaos, Solitons and Fractals*, **2007**, 33, 1314-1328	9.3	12
128	IDENTIFIABILITY OF HIV/AIDS MODELS **2005**, 255-286		12

127	How information propagation in social networks can improve energy savings based on time of use tariff. *Sustainable Cities and Society*, **2015**, 19, 26-33	10.1	11
126	Estimate and characterize PV power at demand-side hybrid system. *Applied Energy*, **2018**, 218, 66-77	10.7	11
125	Distributed control for a multi-evaporator air conditioning system. *Control Engineering Practice*, **2019**, 90, 85-100	3.9	11
124	Optimal and energy efficient operation of conveyor belt systems with downhill conveyors. *Energy Efficiency*, **2017**, 10, 405-417	3	11
123	Medium Density Control for Coal Washing Dense Medium Cyclone Circuits. *IEEE Transactions on Control Systems Technology*, **2015**, 23, 1117-1122	4.8	11
122	Optimal Energy Management Strategy for Distributed Energy Resources. *Energy Procedia*, **2014**, 61, 1331-1334	2.3	11
121	Periodic orbits arising from Delta-modulated feedback control. *Chaos, Solitons and Fractals*, **2004**, 19, 581-595	9.3	11
120	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	10.6	10
119	A Comparative Study on the Cost-effective Belt Conveyors for Bulk Material Handling. *Energy Procedia*, **2017**, 142, 2754-2760	2.3	10
118	Optimal Power Control of Grid Tied PV-battery-diesel System Powering Heat Pump Water Heaters. *Energy Procedia*, **2015**, 75, 1514-1521	2.3	10
117	Combined Heat and Power Dynamic Economic Dispatch with Emission Limitations Using Hybrid DE-SQP Method. *Abstract and Applied Analysis*, **2013**, 2013, 1-10	0.7	10
116	Control problems in building energy retrofit and maintenance planning. *Annual Reviews in Control*, **2017**, 44, 78-88	10.3	9
115	Optimization of the Operational Cost and Environmental Impact of a Multi-Microgrid System. *Energy Procedia*, **2019**, 158, 3827-3832	2.3	9
114	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		9
113	A Portfolio Approach of Demand Side Management. *IFAC-PapersOnLine*, **2017**, 50, 171-176	0.7	8
112	Mathematical modelling for the social impact to energy efficiency savings. *Energy and Buildings*, **2014**, 84, 344-351	7	8
111	Energy Efficiency of Overhead Cranes. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2014**, 47, 19-24		8
110	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	3.5	8

109	Energy-maintenance optimization for retrofitted lighting system incorporating luminous flux degradation to enhance visual comfort. *Applied Energy*, **2020**, 261, 114379	10.7	8
108	Optimal Operation of Integrated Heat Pump-instant Water Heaters with Renewable Energy. *Energy Procedia*, **2017**, 105, 2151-2156	2.3	7
107	Distributed optimization of multi-agent systems with delayed sampled-data. *Neurocomputing*, **2018**, 296, 100-108	5.4	7
106	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	7.8	7
105	Adaptive Parameter Estimation for an Energy Model of Belt Conveyor with DC Motor. *Asian Journal of Control*, **2014**, 16, 1122-1132	1.7	7
104	A high-gain-based global finite-time nonlinear observer. *International Journal of Control*, **2013**, 86, 759-767	6.5	7
103	Optimal scheduling of conveyor belt systems under Critical Peak Pricing **2012**,		7
102	Periodic orbits arising from two-level quantized feedback control. *Chaos, Solitons and Fractals*, **2007**, 33, 1339-1347	9.3	7
101	Complex Dynamics of Systems Under Delta-Modulated Feedback. *IEEE Transactions on Automatic Control*, **2006**, 51, 1888-1902	5.9	7
100	Hierarchical Power Flow Control of a Grid-tied Photovoltaic Plant Using a Battery-Supercapacitor Energy Storage System. *Energy Procedia*, **2018**, 145, 32-37	2.3	7
99	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		6
98	Characterising Compact Fluorescent Lamp population decay **2013**,		6
97	Hybrid DE-SQP Method for Solving Combined Heat and Power Dynamic Economic Dispatch Problem. *Mathematical Problems in Engineering*, **2013**, 2013, 1-7	1.1	6
96	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	11	6
95	Integrated Energy Management of Grid-tied-PV-fuel Cell Hybrid System. *Energy Procedia*, **2016**, 103, 111-116	2.3	6
94	Distributed control of nonlinear stochastic multi-agent systems with external disturbance and time-delay via event-triggered strategy. *Neurocomputing*, **2021**, 452, 275-283	5.4	6
93	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	4.8	5
92	Efficient metering and surveying sampling designs in longitudinal Measurement and Verification for lighting retrofit. *Energy and Buildings*, **2017**, 154, 430-447	7	5

91	Optimal Sizing and Power Sharing of Distributed Hybrid Renewable Energy Systems Considering Socio-Demographic Factors. *Energy Procedia*, **2019**, 159, 340-345	2.3	5
90	A Hierarchical Optimisation of a Compressed Natural Gas Station for Energy and Fuelling Efficiency under a Demand Response Program. *Energies*, **2019**, 12, 2165	3.1	5
89	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	13	5
88	A Preliminary Study on the Robustness of Grouping Based Maintenance Plan Optimization in Building Retrofitting. *Energy Procedia*, **2017**, 105, 3308-3313	2.3	5
87	Optimal energy mix of a microhydro-wind-grid system powering a dairy farm in Western Cape, South Africa.. *Energy Procedia*, **2017**, 142, 708-715	2.3	5
86	Mathematical modeling of HIV dynamics after antiretroviral therapy initiation: a clinical research study. *AIDS Research and Human Retroviruses*, **2014**, 30, 831-4	1.6	5
85	Optimal operation of heavy haul trains using model predictive control methodology **2011**,		5
84	Periodicity in Delta-modulated feedback control. *Journal of Control Theory and Applications*, **2008**, 6, 37-44		5
83	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	5.9	5
82	Optimal Integrated Diesel Grid-renewable Energy System for Hot Water Devices. *Energy Procedia*, **2016**, 103, 117-122	2.3	5
81	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	6.1	5
80	Feasibility study of embedded piezoelectric generator system on a highway for street lights electrification. *Energy Procedia*, **2018**, 152, 1015-1020	2.3	5
79	Efficient longitudinal population survey sampling for the measurement and verification of lighting retrofit projects. *Energy and Buildings*, **2017**, 150, 163-176	7	4
78	Active nonlinear partial-state feedback control of contacting force for a pantograph-catenary system. *ISA Transactions*, **2019**, 91, 78-89	5.5	4
77	A Model Predictive Control for Coal Beneficiation Dense Medium Cyclones. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2014**, 47, 9810-9815		4
76	Control of a battery/supercapacitor hybrid energy storage system for electric vehicles **2017**,		4
75	Optimal energy cost management of a CNG fuelling station. *IFAC-PapersOnLine*, **2017**, 50, 94-97	0.7	4
74	A new energy calculation model of belt conveyor **2009**,		4

73	IV. Structured treatment interruptions: A control mathematical approach to protocol design. *Journal of Process Control*, **2007**, 17, 586-590	3.9	4
72	Optimisation Approach Toward Water Management and Energy Security in Arid/Semiarid Regions. *Environmental Processes*,1	2.8	4
71	A MILP Model for Truck-shovel Scheduling to Minimize Fuel Consumption. *Energy Procedia*, **2017**, 105, 2739-2745	2.3	3
70	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	2.3	3
69	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	0.7	3
68	Optimisation of mine ventilation fan speeds on demand **2014**,		3
67	Optimal control of maintenance instants and intensities in building energy efficiency retrofitting project **2015**,		3
66	**2017**,		3
65	Design and characterization of asymmetric supercapacitor useful in hybrid energy storage systems for electric vehicles. *IFAC-PapersOnLine*, **2017**, 50, 83-87	0.7	3
64	Optimization of a compressed natural gas station operation to minimize energy cost. *Energy Procedia*, **2017**, 142, 2003-2008	2.3	3
63	A cost-effective approach to handle measurement and verification uncertainties of energy savings. *Energy*, **2017**, 141, 1600-1609	7.9	3
62	Nonlinear Trajectory Tracking Control for Heavy-Haul Trains. *IFAC-PapersOnLine*, **2015**, 48, 41-46	0.7	3
61	Robust Synchronization of a Class of Nonlinear Systems: Applications to Chaotic Coupled Electromechanical Systems. *JVC/Journal of Vibration and Control*, **2008**, 14, 531-551	2	3
60	Best switching time of hot water cylinder-switched optimal control approach **2007**,		3
59	Minimum cost solution to residential energy-water nexus through rainwater harvesting and greywater recycling. *Journal of Cleaner Production*, **2021**, 298, 126742	10.3	3
58	A power dispatch model for a ferrochrome plant heat recovery cogeneration system. *Applied Energy*, **2018**, 227, 180-189	10.7	3
57	Distributed Energy Dispatch of Electrical Energy Storage Systems Using Consensus Control Approach. *IFAC-PapersOnLine*, **2018**, 51, 229-234	0.7	3
56	Optimal Control of Hydrokinetic-powered Pumpback System for a Hydropower Plant in Dry Season: A Case Study. *Energy Procedia*, **2017**, 105, 94-101	2.3	2

55   Maintenance optimization incorporating lumen degradation failure for energy-efficient lighting retrofit projects. *Applied Energy*, **2020**, 267, 115003   10.7   2

54   Compressor and priority panel optimization for an energy efficient CNG fuelling station **2017**,   2

53   Decentralized adaptive consensus of multi-agent in networks with switching topologies **2014**,   2

52   An Optimization Model for Reducing Energy Usage of Coal Washing Plants. *Energy Procedia*, **2014**, 61, 1017-1020   2.3   2

51   Cost optimization design approach for multiple drive belt conveyors **2017**,   2

50   Magnetite and water addition control for a dense medium coal washing circuit **2015**,   2

49   Optimal Sampling and Maintenance Plans for the Lighting Retrofit Projects Towards Sustainable Energy Savings. *Energy Procedia*, **2014**, 61, 648-651   2.3   2

48   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   2

47   Global Finite-time Observers for a Class of Non-Lipschitz Systems. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2011**, 44, 703-708   2

46   Geometric Steady States of Nonlinear Systems. *IEEE Transactions on Automatic Control*, **2010**, 55, 1448-1454   5.9   2

45   A less conservative method for average consensus with multiple time-varying delays **2011**,   2

44   A high-gain-based global finite-time nonlinear observer **2011**,   2

43   A semi-discrete approach to modelling and control of the continuous casting process. *Steel Research = Archiv Für Das Eisenhüttenwesen*, **2000**, 71, 220-227   2

42   Biogas potential determination and production optimisation through optimal substrate ratio feeding in co-digestion of water hyacinth, municipal solid waste and cow dung. *Biofuels*, **2020**, 1-11   2   2

41   Event-triggered group consensus of leader-following multi-agent systems with nonlinear dynamics **2016**,   2

40   A New Planar Path-Following Control for Non-Holonomic Systems **2019**,   2

39   Multi-Zone Building Temperature Control and Energy Efficiency Using Autonomous Hierarchical Control Strategy **2018**,   2

38   Model predictive control of a Venlo-type greenhouse system considering electrical energy, water and carbon dioxide consumption. *Applied Energy*, **2021**, 298, 117163   10.7   2

37	Economic Dispatch of a Grid-connected Cogeneration Ferrochrome Plant. *Energy Procedia*, **2017**, 105, 1974-1979	2.3	1
36	Optimal tank sizing and operation of energy-water supply systems in residences. *Energy Procedia*, **2019**, 159, 352-357	2.3	1
35	Receding Horizon Operation Control of a Compressed Natural Gas Station. *Energy Procedia*, **2019**, 158, 2853-2858	2.3	1
34	Optimal maintenance planning in building retrofitting with interacting energy effects. *Optimal Control Applications and Methods*, **2020**, 41, 2023-2036	1.7	1
33	Lighting retrofit and maintenance models with decay and adaptive control. *IET Control Theory and Applications*, **2018**, 12, 593-600	2.5	1
32	Optimal dispatch of grid and natural gas generator power in a scheduled compressed natural gas fuelling station **2019**,		1
31	Interactive Dynamics in Building Maintenance and Retrofit. *Energy Procedia*, **2017**, 105, 3363-3368	2.3	1
30	Game-theoretic demand-side management and closed-loop control for a class of networked smart grid. *IET Control Theory and Applications*, **2017**, 11, 2170-2176	2.5	1
29	An optimization model for building envelope retrofit considering energy performance certificate **2017**,		1
28	**2017**,		1
27	Indoor Human Thermal Comfort Optimal Control with Desiccant Wheel Cooling System. *Energy Procedia*, **2014**, 61, 882-886	2.3	1
26	Short-term wind power prediction using Least-Square Support Vector Machines **2012**,		1
25	Maximization of social welfare in distribution network with distributed generations using genetic algorithm **2011**,		1
24	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		1
23	Identifiability Problems of Time-delay HIV Models. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2008**, 41, 283-288		1
22	Geometric characterization on the solvability of regulator equations. *Automatica*, **2008**, 44, 445-450	5.7	1
21	A parameterization approach to disturbance decoupling problem with stability of nonlinear systems. *Automatica*, **1996**, 32, 607-610	5.7	1
20	Distributed event-triggered output feedback H∞ control for multi-agent systems with transmission delays. *IET Control Theory and Applications*, **2021**, 15, 1646-1660	2.5	1

19	A Competitive Swarm Optimizer-Based Technoeconomic Optimization with Appliance Scheduling in Domestic PV-Battery Hybrid Systems. *Complexity*, **2019**, 2019, 1-15	1.6	1
18	Model predictive control strategy of energy cost management for a compressed natural gas fuelling station. *IFAC-PapersOnLine*, **2018**, 51, 851-855	0.7	1
17	A Consensus-Based Dispatch Algorithm of Constrained Electrical Energy Storage Systems **2018**,		1
16	Transient State Modelling and Experimental Investigation of the Thermal Behavior of a Vapor Compression System. *Mathematical Problems in Engineering*, **2021**, 2021, 1-14	1.1	1
15	Co-digestion of water hyacinth, municipal solid waste and cow dung: A methane optimised biogasliquid petroleum gas hybrid system. *Applied Energy*, **2021**, 304, 117716	10.7	1
14	Explainable artificial intelligence for building energy performance certificate labelling classification. *Journal of Cleaner Production*, **2022**, 131626	10.3	1
13	Optimal lighting project maintenance planning by a control system approach. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2014**, 47, 3152-3157		0
12	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	2.3	
11	Distributed resource allocation for multi-zone commercial buildings. *Energy Procedia*, **2019**, 158, 2872-2877		
10	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		
9	A chaos-based CDMA scheme with a chaos-based encryption algorithm. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2009**, 42, 110-115		
8	An MPC approach to deep level mine rock winder hoist control. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2010**, 43, 249-254		
7	Correction to Adaptive Synchronization for Generalized Lorenz Systems *IEEE Transactions on Automatic Control*, **2008**, 53, 2216-2216	5.9	
6	MODELLING OF HIV INFECTION: VACCINE READINESS, DRUG EFFECTIVENESS AND THERAPEUTICAL FAILURES. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2006**, 39, 485-492		
5	MODULATED FEEDBACK IN DISCRETIZATION OF SLIDING MODE CONTROL. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2005**, 38, 705-710		
4	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		
3	MMODE: A Memetic Multiobjective Differential Evolution Algorithm. *Lecture Notes in Computer Science*, **2013**, 422-430	0.9	
2	Dynamic State Feedback Decoupling of a DX A/C System. *IFAC-PapersOnLine*, **2019**, 52, 406-411	0.7	

1   Building Energy Performance Certificate Labelling Classification Based on Explainable Artificial Intelligence. *Communications in Computer and Information Science*, **2021**, 181-196   0.3