Carlos Henggeler Antunes

List of Publications by Citations

200 papers	4,845 citations	37 h-index	63 g-index
231 ext. papers	5,697 ext. citations	5.2 avg, IF	6.23 L-index

#	Paper	IF	Citations
200	Multi-objective optimization for building retrofit strategies: A model and an application. *Energy and Buildings*, **2012**, 44, 81-87	7	309
199	Multi-objective optimization for building retrofit: A model using genetic algorithm and artificial neural network and an application. *Energy and Buildings*, **2014**, 81, 444-456	7	264
198	A multi-level energy management system for multi-source electric vehicles – An integrated rule-based meta-heuristic approach. *Applied Energy*, **2013**, 105, 304-318	10.7	197
197	Energy behaviours as promoters of energy efficiency: A 21st century review. *Renewable and Sustainable Energy Reviews*, **2012**, 16, 4095-4104	16.2	171
196	A multi-objective optimization model for building retrofit strategies using TRNSYS simulations, GenOpt and MATLAB. *Building and Environment*, **2012**, 56, 370-378	6.5	171
195	GIS-based photovoltaic solar farms site selection using ELECTRE-TRI: Evaluating the case for Torre Pacheco, Murcia, Southeast of Spain. *Renewable Energy*, **2014**, 66, 478-494	8.1	137
194	Multiple objective linear programming models with interval coefficients – an illustrated overview. *European Journal of Operational Research*, **2007**, 181, 1434-1463	5.6	123
193	A multiple objective mixed integer linear programming model for power generation expansion planning. *Energy*, **2004**, 29, 613-627	7.9	114
192	A GIS-based multicriteria spatial decision support system for planning urban infrastructures. *Decision Support Systems*, **2011**, 51, 720-726	5.6	105
191	Assessing the performance of biogas plants with multi-criteria and data envelopment analysis. *European Journal of Operational Research*, **2009**, 197, 1084-1094	5.6	97
190	Energy management systems aggregators: A literature survey. *Renewable and Sustainable Energy Reviews*, **2017**, 73, 1160-1172	16.2	89
189	A fuzzy multiple objective decision support model for energy-economy planning. *European Journal of Operational Research*, **2003**, 145, 304-316	5.6	85
188	Categorization of residential electricity consumption as a basis for the assessment of the impacts of demand response actions. *Renewable and Sustainable Energy Reviews*, **2014**, 30, 490-503	16.2	83
187	A multi-objective genetic approach to domestic load scheduling in an energy management system. *Energy*, **2014**, 77, 144-152	7.9	79
186	A multiple objective model to deal with economy–energy–environment interactions. *European Journal of Operational Research*, **2004**, 153, 370-385	5.6	76
185	A Real-Time Energy Management Architecture for Multisource Electric Vehicles. *IEEE Transactions on Industrial Electronics*, **2015**, 62, 3223-3233	8.9	72
184	A web spatial decision support system for vehicle routing using Google Maps. *Decision Support Systems*, **2011**, 51, 1-9	5.6	71

183	A multi-objective multi-sectoral economy–energy–environment model: Application to Portugal. *Energy*, **2011**, 36, 2856-2866	7.9	71
182	A Multiple Objective Approach to Direct Load Control Using an Interactive Evolutionary Algorithm. *IEEE Transactions on Power Systems*, **2007**, 22, 1004-1011	7	66
181	NSGA-II with local search for a multi-objective reactive power compensation problem. *International Journal of Electrical Power and Energy Systems*, **2012**, 43, 313-324	5.1	64
180	Structuring an MCDA model using SSM: A case study in energy efficiency. *European Journal of Operational Research*, **2009**, 199, 834-845	5.6	62
179	Optimizing the management of smart home energy resources under different power cost scenarios. *Applied Energy*, **2019**, 242, 351-363	10.7	54
178	A multi-objective evolutionary algorithm for reactive power compensation in distribution networks. *Applied Energy*, **2009**, 86, 977-984	10.7	53
177	A multicriteria decision support system for housing evaluation. *Decision Support Systems*, **2007**, 43, 779-790	5.6	53
176	Multi-Objective Lot-Sizing and Scheduling Dealing with Perishability Issues. *Industrial & Engineering Chemistry Research*, **2011**, 50, 3371-3381	3.9	51
175	Implementation of a user-friendly software package—a guided tour of trimap. *Mathematical and Computer Modelling*, **1989**, 12, 1299-1309		51
174	A multi-criteria decision approach to sorting actions for promoting energy efficiency. *Energy Policy*, **2008**, 36, 2351-2363	7.2	50
173	A Customized Evolutionary Algorithm for Multiobjective Management of Residential Energy Resources. *IEEE Transactions on Industrial Informatics*, **2017**, 13, 492-501	11.9	49
172	Learning of a single-hidden layer feedforward neural network using an optimized extreme learning machine. *Neurocomputing*, **2014**, 129, 428-436	5.4	48
171	A comparison between cost optimality and return on investment for energy retrofit in buildings-A real options perspective. *Sustainable Cities and Society*, **2016**, 21, 12-25	10.1	45
170	A Controllable Bidirectional Battery Charger for Electric Vehicles with Vehicle-to-Grid Capability. *IEEE Transactions on Vehicular Technology*, **2018**, 67, 114-123	6.8	44
169	A multiobjective model for VAR planning in radial distribution networks based on tabu search. *IEEE Transactions on Power Systems*, **2005**, 20, 1089-1094	7	44
168	A Simulated Annealing Approach for Optimal Power Source Management in a Small EV. *IEEE Transactions on Sustainable Energy*, **2013**, 4, 867-876	8.2	42
167	Comparison of a genetic algorithm and simulated annealing for automatic neural network ensemble development. *Neurocomputing*, **2013**, 121, 498-511	5.4	42
166	A comparative analysis of meta-heuristic methods for power management of a dual energy storage system for electric vehicles. *Energy Conversion and Management*, **2015**, 95, 281-296	10.6	41

165	A multiple objective evolutionary approach for the design and selection of load control strategies. *IEEE Transactions on Power Systems*, **2004**, 19, 1173-1180	7	39
164	A multiple objective decision support model for the selection of remote load control strategies. *IEEE Transactions on Power Systems*, **2000**, 15, 865-872	7	37
163	Economic-energy-environment analysis of prospective sugarcane bioethanol production in Brazil. *Applied Energy*, **2016**, 181, 514-526	10.7	36
162	Coupling input–output analysis with multiobjective linear programming models for the study of economy–energy–environment–social (E3S) trade-offs: a review. *Annals of Operations Research*, **2016**, 247, 471-502	3.2	36
161	Additive DEA based on MCDA with imprecise information. *Journal of the Operational Research Society*, **2008**, 59, 54-63	2	35
160	Towards more effective behavioural energy policy: An integrative modelling approach to residential energy consumption in Europe. *Energy Research and Social Science*, **2015**, 7, 84-98	7.7	34
159	Benchmarking of maintenance and outage repair in an electricity distribution company using the value-based DEA method. *Omega*, **2015**, 53, 104-114	7.2	34
158	An interactive method of tackling uncertainty in interval multiple objective linear programming. *Journal of Mathematical Sciences*, **2009**, 161, 854-866	0.4	34
157	A multi-criteria approach to sort and rank policies based on Delphi qualitative assessments and ELECTRE TRI: The case of smart grids in Brazil. *Omega*, **2018**, 76, 100-111	7.2	33
156	Bi-level particle swarm optimization and evolutionary algorithm approaches for residential demand response with different user profiles. *Information Sciences*, **2017**, 418-419, 405-420	7.7	32
155	A multiple objective linear programming model for power generation expansion planning. *International Journal of Energy Research*, **1995**, 19, 419-432	4.5	32
154	The potential of energy behaviours in a smart(er) grid: Policy implications from a Portuguese exploratory study. *Energy Policy*, **2016**, 90, 233-245	7.2	31
153	MCDA and Energy Planning **2005**, 859-890		31
152	A hybrid input–output multi-objective model to assess economic–energy–environment trade-offs in Brazil. *Energy*, **2015**, 82, 769-785	7.9	30
151	How many jobs can the RES-E sectors generate in the Portuguese context?. *Renewable and Sustainable Energy Reviews*, **2013**, 21, 444-455	16.2	30
150	Estimation of renewable energy and built environment-related variables using neural networks – A review. *Renewable and Sustainable Energy Reviews*, **2018**, 94, 959-988	16.2	28
149	Integrated Management of Energy Resources in Residential Buildings—A Markovian Approach. *IEEE Transactions on Smart Grid*, **2018**, 9, 240-251	10.7	27
148	Interactions of economic growth, energy consumption and the environment in the context of the crisis – A study with uncertain data. *Energy*, **2012**, 48, 415-422	7.9	27

147	Interactive decision support for multiobjective transportation problems. *European Journal of Operational Research*, **1993**, 65, 58-67	5.6	27
146	Business models for energy communities: A review of key issues and trends. *Renewable and Sustainable Energy Reviews*, **2021**, 144, 111013	16.2	27
145	A physically-based model for simulating inverter type air conditioners/heat pumps. *Energy*, **2013**, 50, 110-119	7.9	26
144	An integrated MOLP method base package: A guided tour of tommix. *Computers and Operations Research*, **1992**, 19, 609-625	4.6	26
143	Using SSM to rethink the analysis of energy efficiency initiatives. *Journal of the Operational Research Society*, **2004**, 55, 968-975	2	24
142	Estimating energy savings from behaviours using building performance simulations. *Building Research and Information*, **2017**, 45, 303-319	4.3	22
141	An approach for energy performance and indoor climate assessment in a Portuguese school building. *Sustainable Cities and Society*, **2017**, 30, 184-194	10.1	22
140	A semivectorial bilevel programming approach to optimize electricity dynamic time-of-use retail pricing. *Computers and Operations Research*, **2018**, 92, 130-144	4.6	22
139	Effectiveness of Supercapacitors in Pure Electric Vehicles Using a Hybrid Metaheuristic Approach. *IEEE Transactions on Vehicular Technology*, **2016**, 65, 29-36	6.8	21
138	An application of value-based DEA to identify the best practices in primary health care. *OR Spectrum*, **2016**, 38, 743-767	1.9	21
137	A multi-objective interactive approach to assess economic-energy-environment trade-offs in Brazil. *Renewable and Sustainable Energy Reviews*, **2016**, 54, 1429-1442	16.2	21
136	Sensitivity analysis in MCDM using the weight space. *Operations Research Letters*, **1992**, 12, 187-196	1	21
135	Super-efficiency and stability intervals in additive DEA. *Journal of the Operational Research Society*, **2013**, 64, 86-96	2	20
134	Stability enhancement of the motor drive DC input voltage of an electric vehicle using on-board hybrid energy storage systems. *Applied Energy*, **2017**, 205, 244-259	10.7	20
133	USING SSM FOR STRUCTURING DECISION SUPPORT IN URBAN ENERGY PLANNING / OPERACIN SISTEMOS METODOLOGIJOS TAIKYMAS PLANUOJANT MIESTO ENERGETIK *Technological and Economic Development of Economy*, **2010**, 16, 641-653	4.7	20
132	Development and Application of Competencies for Graduate Programs in Energy and Sustainability. *Journal of Professional Issues in Engineering Education and Practice*, **2011**, 137, 198-207	0.7	20
131	An overview of electricity prepayment experiences and the Brazilian new regulatory framework. *Renewable and Sustainable Energy Reviews*, **2016**, 54, 704-722	16.2	18
130	Multiobjective Linear and Integer Programming. *EURO Advanced Tutorials on Operational Research*, **2016**,	0.8	18

129	Eco-efficiency in early design decisions: A multimethodology approach. *Journal of Cleaner Production*, **2021**, 283, 124630	10.3	18
128	A life cycle multi-objective economic and environmental assessment of distributed generation in buildings. *Energy Conversion and Management*, **2015**, 97, 420-427	10.6	17
127	The future of power systems: Challenges, trends, and upcoming paradigms. *Wiley Interdisciplinary Reviews: Energy and Environment*, **2020**, 9, e368	4.7	16
126	Economic valuation of smart grid investments on electricity markets. *Sustainable Energy, Grids and Networks*, **2018**, 16, 70-90	3.6	16
125	Stochastic optimization of trigeneration systems for decision-making under long-term uncertainty in energy demands and prices. *Energy*, **2019**, 175, 781-797	7.9	15
124	A model for optimal energy planning of a commercial building integrating solar and cogeneration systems. *Energy*, **2013**, 61, 211-223	7.9	15
123	Domestic Load Scheduling Using Genetic Algorithms. *Lecture Notes in Computer Science*, **2013**, 142-151	0.9	15
122	Public policies for smart grids in Brazil. *Renewable and Sustainable Energy Reviews*, **2018**, 92, 501-512	16.2	15
121	Optimal Energy and Reserve Market Management in Renewable Microgrid-PEVs Parking Lot Systems: V2G, Demand Response and Sustainability Costs. *Energies*, **2020**, 13, 1884	3.1	14
120	Multi-Objective Optimization and Multi-Criteria Analysis Models and Methods for Problems in the Energy Sector. *Profiles in Operations Research*, **2016**, 1067-1165	1	14
119	A comparative study of different approaches using an outranking relation in a multi-objective evolutionary algorithm. *Computers and Operations Research*, **2013**, 40, 1602-1615	4.6	14
118	A multi-objective simulated annealing approach to reactive power compensation. *Engineering Optimization*, **2011**, 43, 1063-1077	2	14
117	Designing time-of-use tariffs in electricity retail markets using a bi-level model Estimating bounds when the lower level problem cannot be exactly solved. *Omega*, **2020**, 93, 102027	7.2	14
116	A Combined Value Focused Thinking-Soft Systems Methodology Approach to Structure Decision Support for Energy Performance Assessment of School Buildings. *Sustainability*, **2018**, 10, 2295	3.6	13
115	Life-cycle greenhouse gas assessment of Nigerian liquefied natural gas addressing uncertainty. *Environmental Science & Technology*, **2015**, 49, 3949-57	10.3	13
114	Performance evaluation of Portuguese mutual fund portfolios using the value-based DEA methodPlease note this paper has been re-typeset by Taylor & Francis from the manuscript originally provided to the previous publisher.View all notes. *Journal of the Operational Research*	2	12
113	Interactive MOLP explorerA graphical-based computational tool for teaching and decision support in multi-objective linear programming models. *Computer Applications in Engineering Education*, **2015**, 23, 314-326	1.6	12
112	A MULTI-OBJECTIVE INPUT-OUTPUT MODEL TO ASSESS E4 IMPACTS OF BUILDING RETROFITTING MEASURES TO IMPROVE ENERGY EFFICIENCY. *Technological and Economic Development of Economy*, **2015**, 21, 483-494	4.7	11

111	A detailed network model for distribution systems with high penetration of renewable generation sources. *Electric Power Systems Research*, **2018**, 161, 152-166	3.5	11
110	Multiobjective Design Optimization of Generalized Multilayer Multiphase AC Winding. *IEEE Transactions on Energy Conversion*, **2019**, 34, 2158-2167	5.4	11
109	A weight space-based approach to fuzzy multiple-objective linear programming. *Decision Support Systems*, **2003**, 34, 427-443	5.6	11
108	A Hybrid Genetic Algorithm for the Interaction of Electricity Retailers with Demand Response. *Lecture Notes in Computer Science*, **2016**, 459-474	0.9	11
107	An Input-output Model for Decision Support in Energy-economy Planning - a Multiobjective Interactive Approach. *Systems Analysis Modelling Simulation*, **2002**, 42, 769-790		10
106	Assessing the Influence of Different Goals in Energy Communities' Self-Sufficiency: An Optimized Multiagent Approach. *Energies*, **2021**, 14, 989	3.1	10
105	Uncertainty and robustness in planning and decision-making. *International Journal of Systems Science*, **2014**, 45, 1-2	2.3	9
104	Design of an adaptive mutation operator in an electrical load management case study. *Computers and Operations Research*, **2008**, 35, 2925-2936	4.6	9
103	A visual interactive tolerance approach to sensitivity analysis in MOLP. *European Journal of Operational Research*, **2002**, 142, 357-381	5.6	9
102	A multi-agent system approach to exploit demand-side flexibility in an energy community. *Utilities Policy*, **2020**, 67, 101114	3.3	9
101	Domestic load characterization for demand-responsive energy management systems **2012**,		8
100	Physically-based load demand models for assessing electric load control actions **2009**,		8
99	A decision support system dedicated to discrete multiple criteria problems. *Decision Support Systems*, **1994**, 12, 327-335	5.6	8
98	An Application of Soft Systems Methodology in the Evaluation of Policies and Incentive Actions to Promote Technological Innovations in the Electricity Sector. *Energy Procedia*, **2016**, 106, 258-278	2.3	8
97	Clustering of architectural floor plans: A comparison of shape representations. *Automation in Construction*, **2017**, 80, 48-65	9.6	7
96	A Comparison of MILP and Metaheuristic Approaches for Implementation of a Home Energy Management System under Dynamic Tariffs **2019**,		7
95	An energy management system for residential demand response based on multiobjective optimization **2016**,		7
94	An enumerative algorithm for computing all possibly optimal solutions to an interval LP. *Top*, **2014**, 22, 530-542	1.3	7

93	Dealing with uncertainty in Decision Support Systems: Recent trends (2000–2011). *Intelligent Decision Technologies*, **2012**, 6, 245-264	0.7	7
92	Planning the evolution to broadband access networks: A multicriteria approach. *European Journal of Operational Research*, **1998**, 109, 530-540	5.6	7
91	An application of a multi-criteria decision support system to assess energy performance of school buildings. *Energy Procedia*, **2017**, 122, 667-672	2.3	6
90	A study of genetic algorithms for approximating the longest path in generic graphs **2010**,		6
89	Operational research models and methods in the energy sector. *European Journal of Operational Research*, **2009**, 197, 997-998	5.6	6
88	On the integration of an interactive MOLP procedure base and expert system techniques. *European Journal of Operational Research*, **1992**, 61, 135-144	5.6	6
87	A multiple criteria model for new telecommunication service planning. *European Journal of Operational Research*, **1993**, 71, 341-352	5.6	6
86	A Discussion of Mixed Integer Linear Programming Models of Thermostatic Loads in Demand Response. *Trends in Mathematics*, **2020**, 105-122	0.3	6
85	Multi-objective benchmark for energy management of dual-source electric vehicles: An optimal control approach. *Energy*, **2021**, 223, 119857	7.9	6
84	Evolutionary Multi-Criterion Optimization. *Lecture Notes in Computer Science*, **2015**,	0.9	5
83	Component-Level Optimization of Hybrid Excitation Synchronous Machines for a Specified Hybridization Ratio Using NSGA-II. *IEEE Transactions on Energy Conversion*, **2020**, 35, 1596-1605	5.4	5
82	A multi-objective GRASP procedure for reactive power compensation planning. *Optimization and Engineering*, **2014**, 15, 199-215	2.1	5
81	An outlook of electric vehicle daily use in the framework of an energy management system. *Management of Environmental Quality*, **2015**, 26, 588-606	3.6	5
80	Integration of the Electric Vehicle as a Manageable Load in a Residential Energy Management System **2015**,		5
79	Incorporation of Preferences in an Evolutionary Algorithm Using an Outranking Relation. *International Journal of Natural Computing Research*, **2011**, 2, 63-85	0.6	5
78	Robustness Analysis in Evolutionary Multi-Objective Optimization Applied to VAR Planning in Electrical Distribution Networks. *Lecture Notes in Computer Science*, **2009**, 216-227	0.9	5
77	An automated energy management system in a smart grid context **2012**,		5
76	An Evolutionary Approach for Assessing the Degree of Robustness of Solutions to Multi-Objective Models. *Studies in Computational Intelligence*, **2007**, 565-582	0.8	5

75	An Energy Management System Aggregator Based on an Integrated Evolutionary and Differential Evolution Approach. *Lecture Notes in Computer Science*, **2015**, 252-264	0.9	5
74	A PSO Approach to Semivectorial Bilevel Programming **2015**,		4
73	A Bi-level Multiobjective PSO Algorithm. *Lecture Notes in Computer Science*, **2015**, 263-276	0.9	4
72	Bilevel optimization to deal with demand response in power grids: models, methods and challenges. *Top*, **2020**, 28, 814-842	1.3	4
71	Genetically optimized extreme learning machine **2013**,		4
70	An Evolutionary Algorithm Guided by Preferences Elicited According to the ELECTRE TRI Method Principles. *Lecture Notes in Computer Science*, **2010**, 214-225	0.9	4
69	An Evolutionary Algorithm based on an outranking relation for sorting problems **2010**,		4
68	Improving the responsiveness of NSGA-II using an adaptive mutation operator: a case study. *International Journal of Advanced Intelligence Paradigms*, **2010**, 2, 4	0.5	4
67	A review of electric bus vehicles research topics Methods and trends. *Renewable and Sustainable Energy Reviews*, **2022**, 159, 112211	16.2	4
66	Automatic Clustering Using a Genetic Algorithm with New Solution Encoding and Operators. *Lecture Notes in Computer Science*, **2014**, 92-103	0.9	4
65	An illustration of different concepts of solutions in semivectorial bilevel programming **2016**,		4
64	A population-based approach to the bi-level multifollower problem: an application to the electricity retail market. *International Transactions in Operational Research*, **2021**, 28, 3038-3068	2.9	4
63	Scenario-Based Multi-criteria decision analysis for rapid transit systems implementation in an urban context. *ETransportation*, **2021**, 7, 100101	12.7	4
62	A Mixed-integer Linear Programming Model for Optimal Management of Residential Electrical Loads under Dynamic Tariffs **2018**,		4
61	Integrated Management of Residential Energy Resources. *EPJ Web of Conferences*, **2012**, 33, 05005	0.3	3
60	Impacts of demand side management and micro-generation units on low voltage distribution radial networks **2011**,		3
59	Adaptive and hybrid genetic approaches for estimating the camera motion from image point correspondences **2011**,		3
58	A genetic algorithm for designing neural network ensembles **2012**,		3

57	Max-Min Fairness Optimization in Uplink Cell-Free Massive MIMO using Meta-Heuristics. *IEEE Transactions on Communications*, **2022**, 1-1	6.9	3
56	From TRIMAP to SOMMIX Building Effective Interactive MOLP Computational Tools. *Lecture Notes in Economics and Mathematical Systems*, **1997**, 285-296	0.4	3
55	Energy literacy: an overlooked concept to end users adoption of time-differentiated tariffs. *Energy Efficiency*, **2021**, 14, 1	3	3
54	Sensor location in water distribution networks to detect contamination events A multiobjective approach based on NSGA-II **2016**,		3
53	Energy Transactions Between Energy Community Members: an Agent-Based Modeling Approach **2018**,		3
52	On Phase Shifting and Diversified Coil-Pitch for Enhanced Multiobjective Winding Design Optimization. *IEEE Transactions on Energy Conversion*, **2021**, 36, 2002-2011	5.4	3
51	Multiobjective Bilevel Programming: Concepts and Perspectives of Development. *Multiple Criteria Decision Making*, **2019**, 267-293	1.4	2
50	A Hybrid Multiobjective Differential Evolution Approach to Stator Winding Optimization. *Lecture Notes in Computer Science*, **2019**, 64-71	0.9	2
49	Evolutionary Multi-Criterion Optimization. *Lecture Notes in Computer Science*, **2015**,	0.9	2
48	Multi-objective Optimization of Sensor Placement to Detect Contamination in Water Distribution Networks **2015**,		2
47	Sizing of a Battery Pack Based on Series/Parallel Configurations for a High-Power Electric Vehicle as a Constrained Optimization Problem. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 14150-14159	6.8	2
46	A Differential Evolution Algorithm to Semivectorial Bilevel Problems. *Lecture Notes in Computer Science*, **2018**, 172-185	0.9	2
45	Residential demand-side flexibility in energy communities: a combination of optimization and agent modeling approaches **2019**,		2
44	Comparative Study of Different Energy Management Strategies for Dual-Source Electric Vehicles. *World Electric Vehicle Journal*, **2013**, 6, 523-531	2.5	2
43	Stability analysis of efficient solutions in multiobjective integer programming: A case study in load management. *Computers and Operations Research*, **2008**, 35, 186-197	4.6	2
42	DECISION SUPPORT IN RURAL TELECOMMUNICATION NETWORK PLANNING. *Engineering Optimization*, **1991**, 18, 137-146	2	2
41	Passive and Active Anti-Resonance Capacitor Systems for Power Factor Correction **2006**,		2
40	A study of the inclusion of vulnerable consumers in energy communities with peer-to-peer exchanges **2020**,		2

39	A deterministic bounding procedure for the global optimization of a bi-level mixed-integer problem. *European Journal of Operational Research*, **2021**, 291, 52-66	5.6	2
38	Man-Machine Interfacing in MCDA **1994**, 239-253		2
37	Multiobjective Optimization in the Energy Sector: Selected Problems and Challenges. *Multiple Criteria Decision Making*, **2019**, 357-370	1.4	1
36	A hybrid multi-objective GRASP+SA algorithm with incorporation of preferences **2014**,		1
35	Special issue on intelligent technologies for planning and decision making under uncertainty. *Intelligent Decision Technologies*, **2012**, 6, 243-244	0.7	1
34	State of the Art on Retrofit Strategies Selection Using Multi-objective Optimization and Genetic Algorithms **2013**, 279-297		1
33	A unified energy management strategy for a dual-source electric vehicle **2013**,		1
32	Mobile multimedia in VESPER Virtual Home Environment		1
31	On the application of TRIMAP to problems with multiple decision makers. *Annals of Operations Research*, **1994**, 51, 99-114	3.2	1
30	A Bi-Level Optimization Approach to Define Dynamic Tariffs with Variable Prices and Periods in the Electricity Retail Market. *Computational Methods in Applied Sciences (Springer)*, **2021**, 1-16	0.4	1
29	Towards inclusive community-based energy markets: A multiagent framework. *Applied Energy*, **2021**, 307, 118115	10.7	1
28	An Evolutionary Algorithm for the Optimization of Residential Energy Resources. *Trends in Mathematics*, **2017**, 3-16	0.3	1
27	An Improved Multiobjective Electromagnetism-like Mechanism Algorithm. *Lecture Notes in Computer Science*, **2014**, 627-638	0.9	1
26	Integrated Management of Energy Resources in the Residential Sector Using Evolutionary Computation. *Advances in Environmental Engineering and Green Technologies Book Series*, **2015**, 320-347	0.4	1
25	An Integrated Building Energy Management System **2017**, 191-199		1
24	Energy and behaviour: Challenges of a low-carbon future **2020**, 1-15		1
23	Assessing the robustness of solutions to a multi-objective model of an energy management system aggregator **2016**,		1
22	New concepts and an algorithm for multiobjective bilevel programming: optimistic, pessimistic and moderate solutions. *Operational Research*, **2019**, 1	1.6	1

21	Optimization of PMU Location and Communications in a Power Grid **2019**,		1
20	Optimizing residential energy resources with an improved multi-objective genetic algorithm based on greedy mutations **2018**,		1
19	A Study of the Interactions between the Energy System and the Economy Using Trimap. *Profiles in Operations Research*, **2002**, 407-427	1	1
18	Collective self-consumption in multi-tenancy buildings□o what extent do consumers□goals influence the energy system's performance?. *Sustainable Cities and Society*, **2022**, 80, 103688	10.1	0
17	Economic, Environmental and Energy analysis of carbon capture systems coupled in coal power plants for the reduction of CO2 emissions in Brazil. *International Journal of Greenhouse Gas Control*, **2022**, 114, 103606	4.2	0
16	Optimizing Prices and Periods in Time-of-use Electricity Tariff Design Using Bilevel Programming. *Lecture Notes in Computer Science*, **2020**, 1-17	0.9	0
15	Comparison of Thermal Load Models for MILP-Based Demand Response Planning. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2020**, 110-124	0.2	0
14	Teaching Operations Research Using □Home Made□Software **1993**, 305-337		0
13	A comprehensive and modular set of appliance operation MILP models for demand response optimization. *Applied Energy*, **2022**, 320, 119142	10.7	0
12	Energy End-Use Flexibility of the Next Generation of Decision-Makers in a Smart Grid Setting: An Exploratory Study. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2019**, 13-23	0.2	
11	Improving the Responsiveness of NSGA-II in Dynamic Environments Using an Adaptive Mutation Operator □A Case Study. *Lecture Notes in Computer Science*, **2008**, 90-97	0.9	
10	REFERENCE POINT AND FUZZY APPROACHES FOR DECISION SUPPORT IN MULTIOBJECTIVE PROGRAMMING. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2002**, 35, 155-160		
9	Multicriteria Decision Support for Sustainable Energy Systems. *Multiple Criteria Decision Making*, **2021**, 75-91	1.4	
8	A flexible MOLP approach to the modernization of telecommunication networks incorporating sensitivity analysis. *Teletraffic Science and Engineering*, **1994**, 1425-1434		
7	Decision Aiding in an Organizational Context **1995**, 125-137		
6	A Multiobjective Electromagnetism-Like Algorithm with Improved Local Search. *CIM Series in Mathematical Sciences*, **2015**, 123-144	0.8	
5	A Guided Tour of iMOLPe. *EURO Advanced Tutorials on Operational Research*, **2016**, 137-159	0.8	
4	A Dual Mutation Operator to Solve the Multi-objective Production Planning of Perishable Goods. *Operations Research/ Computer Science Interfaces Series*, **2013**, 77-97	0.3	

3	Incorporation of Preferences in an Evolutionary Algorithm Using an Outranking Relation **2014**, 66-89	
2	Interactive Methods in Multiobjective Linear Programming. *EURO Advanced Tutorials on Operational Research*, **2016**, 57-136	0.8
1	Bi-Objective Power Optimization of Radio Stripe Uplink Communications. *Electronics (Switzerland)*, **2022**, 11, 876	2.6