

Jos M Ponce-Ortega

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

286 papers	4,782 citations	36 h-index	53 g-index
300 ext. papers	5,400 ext. citations	4.8 avg, IF	6.26 L-index

#	Paper	IF	Citations
286	Optimal planning and site selection for distributed multiproduct biorefineries involving economic, environmental and social objectives. <i>Journal of Cleaner Production</i> , 2014 , 65, 270-294	10.3	203
285	Optimal planning for the sustainable utilization of municipal solid waste. <i>Waste Management</i> , 2013 , 33, 2607-22	8.6	126
284	Use of genetic algorithms for the optimal design of shell-and-tube heat exchangers. <i>Applied Thermal Engineering</i> , 2009 , 29, 203-209	5.8	115
283	Process intensification: New understanding and systematic approach. <i>Chemical Engineering and Processing: Process Intensification</i> , 2012 , 53, 63-75	3.7	108
282	Optimal synthesis of heat exchanger networks involving isothermal process streams. <i>Computers and Chemical Engineering</i> , 2008 , 32, 1918-1942	4	94
281	Multiobjective optimization of biorefineries with economic and safety objectives. <i>AIChE Journal</i> , 2013 , 59, 2427-2434	3.6	89
280	A property-based optimization of direct recycle networks and wastewater treatment processes. <i>AIChE Journal</i> , 2009 , 55, 2329-2344	3.6	86
279	Global optimization for the synthesis of property-based recycle and reuse networks including environmental constraints. <i>Computers and Chemical Engineering</i> , 2010 , 34, 318-330	4	78
278	Optimization model for re-circulating cooling water systems. <i>Computers and Chemical Engineering</i> , 2010 , 34, 177-195	4	76
277	Global optimization of mass and property integration networks with in-plant property interceptors. <i>Chemical Engineering Science</i> , 2010 , 65, 4363-4377	4.4	73
276	Optimal Water Management under Uncertainty for Shale Gas Production. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 1322-1335	3.9	68
275	Multi-objective optimization of process cogeneration systems with economic, environmental, and social tradeoffs. <i>Clean Technologies and Environmental Policy</i> , 2013 , 15, 185-197	4.3	67
274	Sustainable Integration of Algal Biodiesel Production with Steam Electric Power Plants for Greenhouse Gas Mitigation. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 1388-1403	8.3	65
273	Optimal integration of organic Rankine cycles with industrial processes. <i>Energy Conversion and Management</i> , 2013 , 73, 285-302	10.6	59
272	A Disjunctive Programming Formulation for the Optimal Design of Biorefinery Configurations. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 3381-3400	3.9	55
271	Synthesis of cooling water systems with multiple cooling towers. <i>Applied Thermal Engineering</i> , 2013 , 50, 957-974	5.8	55
270	Incorporation of process integration into life cycle analysis for the production of biofuels. <i>Clean Technologies and Environmental Policy</i> , 2011 , 13, 673-685	4.3	54

269	Stochastic design of biorefinery supply chains considering economic and environmental objectives. <i>Journal of Cleaner Production</i> , 2016 , 136, 224-245	10.3	53
268	MINLP optimization of mechanical draft counter flow wet-cooling towers. <i>Chemical Engineering Research and Design</i> , 2010 , 88, 614-625	5.5	52
267	Optimal reconfiguration of multi-plant water networks into an eco-industrial park. <i>Computers and Chemical Engineering</i> , 2012 , 44, 58-83	4	51
266	Multiobjective synthesis of heat exchanger networks minimizing the total annual cost and the environmental impact. <i>Applied Thermal Engineering</i> , 2011 , 31, 1099-1113	5.8	51
265	Synthesis of Heat Exchanger Networks with Optimal Placement of Multiple Utilities. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 2849-2856	3.9	50
264	Optimal planning and infrastructure development for shale gas production. <i>Energy Conversion and Management</i> , 2016 , 119, 91-100	10.6	49
263	Optimization of the production of syngas from shale gas with economic and safety considerations. <i>Applied Thermal Engineering</i> , 2017 , 110, 678-685	5.8	47
262	Optimal design of integrated CHP systems for housing complexes. <i>Energy Conversion and Management</i> , 2015 , 99, 252-263	10.6	47
261	Optimization of Pathways for Biorefineries Involving the Selection of Feedstocks, Products, and Processing Steps. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 5177-5190	3.9	46
260	A global optimal formulation for the water integration in eco-industrial parks considering multiple pollutants. <i>Computers and Chemical Engineering</i> , 2011 , 35, 1558-1574	4	46
259	Optimal design of rainwater collecting systems for domestic use into a residential development. <i>Resources, Conservation and Recycling</i> , 2014 , 84, 44-56	11.9	44
258	Optimal design of inter-plant waste energy integration. <i>Applied Thermal Engineering</i> , 2014 , 62, 633-652	5.8	43
257	Global optimization in property-based interplant water integration. <i>AIChE Journal</i> , 2013 , 59, 813-833	3.6	43
256	Environmental and economic analysis for the optimal reuse of water in a residential complex. <i>Journal of Cleaner Production</i> , 2016 , 130, 82-91	10.3	42
255	Industrial waste heat recovery and cogeneration involving organic Rankine cycles. <i>Clean Technologies and Environmental Policy</i> , 2015 , 17, 767-779	4.3	40
254	MINLP synthesis of optimal cooling networks. <i>Chemical Engineering Science</i> , 2007 , 62, 5728-5735	4.4	39
253	Sustainable water management for macroscopic systems. <i>Journal of Cleaner Production</i> , 2013 , 47, 102-110	10.3	38
252	Optimal reuse of flowback wastewater in hydraulic fracturing including seasonal and environmental constraints. <i>AIChE Journal</i> , 2016 , 62, 1634-1645	3.6	37

251	Synthesis of Distributed Biorefining Networks for the Value-Added Processing of Water Hyacinth. <i>ACS Sustainable Chemistry and Engineering</i> , 2013 , 1, 284-305	8.3	36
250	Optimal retrofit of water conservation networks. <i>Journal of Cleaner Production</i> , 2011 , 19, 1560-1581	10.3	36
249	Multi-objective optimization of the supply chain of biofuels from residues of the tequila industry in Mexico. <i>Journal of Cleaner Production</i> , 2015 , 108, 422-441	10.3	34
248	Multiobjective Optimization Approach for Integrating Design and Control in Multicomponent Distillation Sequences. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 12320-12330	3.9	33
247	Optimization of mechanical draft counter flow wet-cooling towers using a rigorous model. <i>Applied Thermal Engineering</i> , 2011 , 31, 3615-3628	5.8	33
246	A property-based approach to the synthesis of material conservation networks with economic and environmental objectives. <i>AIChE Journal</i> , 2011 , 57, 2369-2387	3.6	33
245	Thermo-economic-environmental optimization of a liquid separation condensation-based organic Rankine cycle driven by waste heat. <i>Journal of Cleaner Production</i> , 2018 , 184, 198-210	10.3	32
244	Synthesis of integrated absorption refrigeration systems involving economic and environmental objectives and quantifying social benefits. <i>Applied Thermal Engineering</i> , 2013 , 52, 402-419	5.8	32
243	Simultaneous synthesis of utility system and heat exchanger network incorporating steam condensate and boiler feedwater. <i>Energy</i> , 2016 , 113, 875-893	7.9	31
242	Inherently Safer Design and Optimization of Intensified Separation Processes for Furfural Production. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 6105-6120	3.9	31
241	Optimal location of biorefineries considering sustainable integration with the environment. <i>Renewable Energy</i> , 2017 , 100, 65-77	8.1	30
240	Optimal Planning of Feedstock for Butanol Production Considering Economic and Environmental Aspects. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 4018-4030	8.3	30
239	Optimization of biofuels production via a water-Energy-Food nexus framework. <i>Clean Technologies and Environmental Policy</i> , 2018 , 20, 1443-1466	4.3	30
238	An MINLP model for the simultaneous integration of energy, mass and properties in water networks. <i>Computers and Chemical Engineering</i> , 2014 , 71, 52-66	4	30
237	Multi-objective optimization of steam power plants for sustainable generation of electricity. <i>Clean Technologies and Environmental Policy</i> , 2013 , 15, 551-566	4.3	30
236	Optimal design of macroscopic water networks under parametric uncertainty. <i>Journal of Cleaner Production</i> , 2015 , 88, 172-184	10.3	29
235	Multiobjective design of interplant trigeneration systems. <i>AIChE Journal</i> , 2014 , 60, 213-236	3.6	29
234	Synthesis of Eco-Industrial Parks Interacting with a Surrounding Watershed. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 1564-1578	8.3	29

233	A Disjunctive Programming Model for Simultaneous Synthesis and Detailed Design of Cooling Networks. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 2991-3003	3.9	29
232	Synthesis of multipass heat exchanger networks using genetic algorithms. <i>Computers and Chemical Engineering</i> , 2008 , 32, 2320-2332	4	28
231	A multi-objective optimization approach for the selection of working fluids of geothermal facilities: Economic, environmental and social aspects. <i>Journal of Environmental Management</i> , 2017 , 203, 962-972	7.9	27
230	Synthesis of Water Networks Involving Temperature-Based Property Operators and Thermal Effects. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 442-461	3.9	27
229	Optimal planning for the reuse of municipal solid waste considering economic, environmental, and safety objectives. <i>AIChE Journal</i> , 2015 , 61, 1881-1899	3.6	26
228	Optimal design of residential cogeneration systems under uncertainty. <i>Computers and Chemical Engineering</i> , 2016 , 88, 86-102	4	25
227	Synthesis of water networks considering the sustainability of the surrounding watershed. <i>Computers and Chemical Engineering</i> , 2011 , 35, 2837-2852	4	25
226	Integrated design and control of multigeneration systems for building complexes. <i>Energy</i> , 2016 , 116, 1403-1416	7.9	24
225	Strategic planning for the use of waste biomass pellets in Mexican power plants. <i>Renewable Energy</i> , 2019 , 130, 622-632	8.1	24
224	Incorporating Property-Based Water Networks and Surrounding Watersheds in Site Selection of Industrial Facilities. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 91-107	3.9	24
223	A systematic approach for synthesizing combined mass and heat exchange networks. <i>Computers and Chemical Engineering</i> , 2013 , 53, 1-13	4	24
222	Optimal design of thermal membrane distillation systems with heat integration with process plants. <i>Applied Thermal Engineering</i> , 2015 , 75, 154-166	5.8	23
221	Financial Risk Assessment and Optimal Planning of Biofuels Supply Chains under Uncertainty. <i>Bioenergy Research</i> , 2016 , 9, 1053-1069	3.1	23
220	Optimal design of process energy systems integrating sustainable considerations. <i>Energy</i> , 2014 , 76, 139-160	7.60	23
219	Economic and environmental optimization of the biobutanol purification process. <i>Clean Technologies and Environmental Policy</i> , 2016 , 18, 395-411	4.3	22
218	Strategic Planning for Managing Municipal Solid Wastes with Consideration of Multiple Stakeholders. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 10744-10762	8.3	22
217	Optimal reconfiguration of a sugar cane industry to yield an integrated biorefinery. <i>Clean Technologies and Environmental Policy</i> , 2016 , 18, 553-562	4.3	22
216	Optimal design of distributed treatment systems for the effluents discharged to the rivers. <i>Clean Technologies and Environmental Policy</i> , 2012 , 14, 925-942	4.3	22

215	Thermo-economic analysis and optimization of a zoetropic fluid organic Rankine cycle with liquid-vapor separation during condensation. <i>Energy Conversion and Management</i> , 2017 , 148, 517-532	10.6	21
214	Simultaneous design of water reusing and rainwater harvesting systems in a residential complex. <i>Computers and Chemical Engineering</i> , 2015 , 76, 104-116	4	21
213	Valuation of Water and Emissions in Energy Systems. <i>Applied Energy</i> , 2018 , 210, 518-528	10.7	21
212	Optimal Design of Distributed Algae-Based Biorefineries Using CO2 Emissions from Multiple Industrial Plants. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 2345-2358	3.9	21
211	Optimization of Water Grid at Macroscopic Level Analyzing Water-Energy-Food Nexus. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 12140-12152	8.3	21
210	Total cost target for heat exchanger networks considering simultaneously pumping power and area effects. <i>Applied Thermal Engineering</i> , 2011 , 31, 1964-1975	5.8	21
209	Heat transfer analysis of a non-Newtonian fluid flowing through a circular tube with twisted tape inserts. <i>Applied Thermal Engineering</i> , 2015 , 84, 225-236	5.8	20
208	Synthesis and Sustainability Evaluation of a Lignocellulosic Multifeedstock Biorefinery Considering Technical Performance Indicators. <i>ACS Omega</i> , 2020 , 5, 9259-9275	3.9	20
207	Multiobjective Optimization of Dual-Purpose Power Plants and Water Distribution Networks. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 6852-6866	8.3	20
206	Sustainable Integration of Trigeneration Systems with Heat Exchanger Networks. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 2732-2750	3.9	20
205	Heat Exchanger Network Synthesis Including Detailed Heat Exchanger Design Using Genetic Algorithms. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 8767-8780	3.9	20
204	Optimal Design of Water Desalination Systems Involving Waste Heat Recovery. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 1834-1847	3.9	19
203	Synthesis of optimal thermal membrane distillation networks. <i>AIChE Journal</i> , 2015 , 61, 448-463	3.6	19
202	An MFA optimization approach for pollution trading considering the sustainability of the surrounded watersheds. <i>Computers and Chemical Engineering</i> , 2014 , 63, 140-151	4	18
201	An optimization approach for the synthesis of recycle and reuse water integration networks. <i>Clean Technologies and Environmental Policy</i> , 2012 , 14, 133-151	4.3	18
200	Optimal design of energy and water supply systems for low-income communities involving multiple-objectives. <i>Energy Conversion and Management</i> , 2017 , 151, 43-52	10.6	18
199	Optimal design of effluent-cooling systems using a mathematical programming model. <i>Applied Thermal Engineering</i> , 2010 , 30, 2116-2126	5.8	18
198	Two-Level Optimization Algorithm for Heat Exchanger Networks Including Pressure Drop Considerations. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 6766-6773	3.9	18

197	Optimal design of CHP systems for housing complexes involving weather and electric market variations. <i>Applied Thermal Engineering</i> , 2015 , 90, 895-906	5.8	17
196	Optimization of facility location and reallocation in an industrial plant through a multi-annual framework accounting for economic and safety issues. <i>Journal of Loss Prevention in the Process Industries</i> , 2015 , 33, 129-139	3.5	17
195	Optimal Synthesis of Refinery Property-Based Water Networks with Electrocoagulation Treatment Systems. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 147-158	8.3	17
194	Optimization of the Supply Chain Associated to the Production of Bioethanol from Residues of Agave from the Tequila Process in Mexico. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 5524-5538	3.9	17
193	A Multiobjective Optimization Approach for the Development of a Sustainable Supply Chain of a New Fixative in the Perfume Industry. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 2380-2390	8.3	17
192	Optimal design and integration of solar thermal collection, storage, and dispatch with process cogeneration systems. <i>Chemical Engineering Science</i> , 2015 , 136, 158-167	4.4	16
191	Balancing stakeholder priorities in the operation of combined heat and power systems. <i>Applied Thermal Engineering</i> , 2018 , 128, 480-488	5.8	16
190	Optimal Design of Inherently Safer Domestic Combined Heat and Power Systems. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 188-201	8.3	16
189	Optimal design of sustainable water systems for cities involving future projections. <i>Computers and Chemical Engineering</i> , 2014 , 69, 1-15	4	16
188	Optimal Design of Energy Systems Involving Pollution Trading through Forest Plantations. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 2585-2604	8.3	15
187	Optimal planning for the supply chain of biofuels for aviation in Mexico. <i>Clean Technologies and Environmental Policy</i> , 2017 , 19, 1387-1402	4.3	15
186	Optimal integration of organic Rankine cycle and desalination systems with industrial processes: Energy-water-environment nexus. <i>Applied Thermal Engineering</i> , 2019 , 158, 113740	5.8	15
185	Optimization of Microalgae-to-Biodiesel Production Process Using a Metaheuristic Technique. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 8490-8498	8.3	15
184	Involving integrated seawater desalination-power plants in the optimal design of water distribution networks. <i>Resources, Conservation and Recycling</i> , 2015 , 104, 181-193	11.9	15
183	Involving economic, environmental and safety issues in the optimal purification of biobutanol. <i>Chemical Engineering Research and Design</i> , 2016 , 103, 365-376	5.5	15
182	Synthesis and dual-objective optimization of industrial combined heat and power plants compromising the water-energy nexus. <i>Applied Energy</i> , 2018 , 224, 448-468	10.7	15
181	Strategic planning to improve the Human Development Index in disenfranchised communities through satisfying food, water and energy needs. <i>Food and Bioproducts Processing</i> , 2019 , 117, 14-29	4.9	14
180	A mixed-integer dynamic optimization approach for the optimal planning of distributed biorefineries. <i>Computers and Chemical Engineering</i> , 2015 , 80, 37-62	4	14

179	Dynamic optimization for the planning of a waste management system involving multiple cities. <i>Journal of Cleaner Production</i> , 2017 , 165, 190-203	10.3	14
178	Optimal Design of Multiplant Cogeneration Systems with Uncertain Flaring and Venting. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 675-688	8.3	14
177	Analysis of Carbon Policies in the Optimal Design of Domestic Cogeneration Systems Involving Biogas Consumption. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 4429-4442	8.3	13
176	Fairness-guided design of water distribution networks for agricultural lands. <i>Computers and Chemical Engineering</i> , 2019 , 130, 106547	4	13
175	Waste Heat Recovery through Organic Rankine Cycles in the Bioethanol Separation Process. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 6773-6788	3.9	13
174	Synthesis of Multi-component Mass-exchange Networks. <i>Chinese Journal of Chemical Engineering</i> , 2013 , 21, 376-381	3.2	13
173	A Systems Approach for Process Simplification through Process Integration. <i>Chemical Engineering and Technology</i> , 2012 , 35, 1262-1272	2	13
172	Incorporation of Mass and Energy Integration in the Optimal Bioethanol Separation Process. <i>Chemical Engineering and Technology</i> , 2013 , 36, 1865-1873	2	13
171	A multi-objective optimization approach for sustainable water management for places with over-exploited water resources. <i>Computers and Chemical Engineering</i> , 2019 , 121, 158-173	4	13
170	Optimal design of total integrated residential complexes involving water-energy-waste nexus. <i>Clean Technologies and Environmental Policy</i> , 2018 , 20, 1061-1085	4.3	13
169	Optimal design of integrated agricultural water networks. <i>Computers and Chemical Engineering</i> , 2016 , 84, 63-82	4	12
168	Defining priorities in the design of power and water distribution networks. <i>Energy</i> , 2017 , 137, 1026-1040	7.9	12
167	Strategic Planning for the Supply Chain of Aviation Biofuel with Consideration of Hydrogen Production. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 13812-13830	3.9	12
166	Optimal production of power from mid-temperature geothermal sources: Scale and safety issues. <i>Energy Conversion and Management</i> , 2018 , 165, 172-182	10.6	12
165	Integrating Mass and Energy through the Anchor-Tenant Approach for the Synthesis of Carbon-Hydrogen-Oxygen Symbiosis Networks. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 16761-16776	3.9	12
164	On the environmental, economic and safety optimization of distributed treatment systems for industrial effluents discharged to watersheds. <i>Journal of Loss Prevention in the Process Industries</i> , 2013 , 26, 908-923	3.5	12
163	A multi-objective approach for property-based synthesis of batch water networks. <i>Chemical Engineering and Processing: Process Intensification</i> , 2013 , 65, 83-96	3.7	12
162	Optimal design of agricultural water systems with multiperiod collection, storage, and distribution. <i>Agricultural Water Management</i> , 2015 , 152, 161-172	5.9	12

161	Feasible Design Space for Shell-and-Tube Heat Exchangers Using the Bell-Delaware Method. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 143-155	3.9	12
160	Involving Acceptability in the Optimal Synthesis of Water Networks in Eco-Industrial Parks. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 2268-2279	3.9	12
159	Sustainable assessment of Water-Energy-Food Nexus at regional level through a multi-stakeholder optimization approach. <i>Journal of Cleaner Production</i> , 2021 , 290, 125194	10.3	12
158	Integrated utility pricing and design of water-energy rural off-grid systems. <i>Energy</i> , 2019 , 177, 511-529	7.9	11
157	Structural and Operating Optimization of the Methanol Process Using a Metaheuristic Technique. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 3135-3150	8.3	11
156	Analysis of the financial risk under uncertainty in the municipal solid waste management involving multiple stakeholders. <i>Computers and Chemical Engineering</i> , 2018 , 117, 433-450	4	11
155	Siting Optimization of Facility and Unit Relocation with the Simultaneous Consideration of Economic and Safety Issues. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 3950-3958	3.9	11
154	Simulation of Syngas Production from Lignin Using Guaiacol as a Model Compound. <i>Energies</i> , 2015 , 8, 6705-6714	3.1	11
153	Incorporation of the Seasonal Variations in the Optimal Treatment of Industrial Effluents Discharged to Watersheds. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 5145-5160	3.9	11
152	Systematic Approach for Assessing the Water-Energy-Food Nexus for Sustainable Development in Regions with Resource Scarcities. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 13734-13748	8.3	11
151	A Disjunctive Programming Approach for Optimizing Carbon, Hydrogen, and Oxygen Symbiosis Networks. <i>Process Integration and Optimization for Sustainability</i> , 2019 , 3, 199-212	2	11
150	Involving the Water-Energy-Food Nexus in Integrating Low-Income and Isolated Communities. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 1399-1418	8.3	11
149	Mixed Integer Nonlinear Programming Model for Sustainable Water Management in Macroscopic Systems: Integrating Optimal Resource Management to the Synthesis of Distributed Treatment Systems. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 2129-2145	8.3	10
148	Multiobjective optimization for designing and operating more sustainable water management systems for a city in Mexico. <i>AIChE Journal</i> , 2015 , 61, 2428-2446	3.6	10
147	Optimal design of reusing water systems in a housing complex. <i>Clean Technologies and Environmental Policy</i> , 2015 , 17, 343-357	4.3	10
146	Total Heat Integration in the Biobutanol Separation Process. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 3000-3012	3.9	10
145	Optimal reconfiguration of water networks based on properties. <i>Clean Technologies and Environmental Policy</i> , 2014 , 16, 303-328	4.3	10
144	Reduction of greenhouse gas emissions from steam power plants through optimal integration with algae and cogeneration systems. <i>Clean Technologies and Environmental Policy</i> , 2015 , 17, 2401-2415	4.3	10

143	Involving resilience in optimizing the water-energy-food nexus at macroscopic level. <i>Chemical Engineering Research and Design</i> , 2021 , 147, 259-273	5.5	10
142	Optimal design of domestic water-heating solar systems. <i>Clean Technologies and Environmental Policy</i> , 2015 , 17, 637-656	4.3	9
141	A Multistakeholder Approach for the Optimal Planning of Sustainable Energy Systems. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 9451-9460	8.3	9
140	Mathematical optimization of a supply chain for the production of fuel pellets from residual biomass. <i>Clean Technologies and Environmental Policy</i> , 2017 , 19, 721-734	4.3	9
139	Improving convergence of the stochastic decomposition algorithm by using an efficient sampling technique. <i>Computers and Chemical Engineering</i> , 2004 , 28, 767-773	4	9
138	Effective Use of Carbon Pricing on Climate Change Mitigation Projects: Analysis of the Biogas Supply Chain to Substitute Liquefied-Petroleum Gas in Mexico. <i>Processes</i> , 2019 , 7, 668	2.9	9
137	Optimal sustainable water-Energy storage strategies for off-grid systems in low-income communities. <i>Computers and Chemical Engineering</i> , 2019 , 123, 87-109	4	9
136	Perspectives for Implementing Distributed Generation in Developing Countries through Modeling Techniques. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 1022-1038	8.3	9
135	Fair Allocation of Potential COVID-19 Vaccines Using an Optimization-Based Strategy. <i>Process Integration and Optimization for Sustainability</i> , 2021 , 5, 3-12	2	9
134	Optimum heat storage design for solar-driven absorption refrigerators integrated with heat exchanger networks. <i>AIChE Journal</i> , 2014 , 60, 909-930	3.6	8
133	Optimal Design of a Distributed Treatment System for Increasing Dissolved Oxygen in Watersheds through Self-Rotating Discs. <i>ACS Sustainable Chemistry and Engineering</i> , 2013 , 1, 1267-1279	8.3	8
132	Optimal Design of Water Distribution Networks with Incorporation of Uncertainties and Energy Nexus. <i>Process Integration and Optimization for Sustainability</i> , 2017 , 1, 275-292	2	8
131	Evaluation of carbon and water policies in the optimization of water distribution networks involving power-desalination plants. <i>Applied Energy</i> , 2019 , 236, 927-936	10.7	8
130	Sustainable strategic planning for a national natural gas energy system accounting for unconventional sources. <i>Energy Conversion and Management</i> , 2019 , 181, 382-397	10.6	8
129	Optimization Approach to Identify Fair Solutions in the Synthesis of Carbon, Hydrogen, and Oxygen Symbiosis Networks. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 5985-5995	3.9	7
128	Synthesis of mass exchange networks: A novel mathematical programming approach. <i>Computers and Chemical Engineering</i> , 2018 , 115, 226-232	4	7
127	Involving Acceptability in the Optimal Design of Total Integrated Residential Complexes Involving the Water-Energy-Waste Nexus. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 7390-7402	8.3	7
126	Global optimization of wastewater integration networks for processes with multiple contaminants. <i>Environmental Progress and Sustainable Energy</i> , 2012 , 31, 449-458	2.5	7

125	An integrated approach to the optimization of in-plant wastewater interception with mass and property constraints. <i>Clean Technologies and Environmental Policy</i> , 2012 , 14, 257-265	4.3	7
124	Systematic Synthesis of Mass Exchange Networks for Multicomponent Systems. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 14219-14230	3.9	7
123	Optimization of Process Flowsheets through Metaheuristic Techniques 2019 ,		7
122	Optimal Planning for Satisfying Future Electricity Demands Involving Simultaneously Economic, Emissions, and Water Concerns. <i>Process Integration and Optimization for Sustainability</i> , 2020 , 4, 379-389 ²		7
121	Optimization of the integrated power and desalination plant with algal cultivation system compromising the energy-water-environment nexus. <i>Sustainable Energy Technologies and Assessments</i> , 2020 , 42, 100879	4.7	7
120	Water, food and power grid optimization at macroscopic level involving multi-stakeholder approach. <i>Energy Procedia</i> , 2018 , 153, 347-352	2.3	7
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