

# Efstratios N Pistikopoulos

## List of Publications by Year in Descending Order

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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.

508  
papers

10,732  
citations

54  
h-index

92  
g-index

548  
ext. papers

12,285  
ext. citations

3.3  
avg, IF

6.85  
L-index

#	Paper	IF	Citations
508	A quantitative and holistic circular economy assessment framework at the micro level. <i>Computers and Chemical Engineering</i> , <b>2022</b> , 160, 107697	4	2
507	A Process Intensification synthesis framework for the design of dividing wall column systems. <i>Computers and Chemical Engineering</i> , <b>2022</b> , 160, 107679	4	4
506	A Neural Network Based Superstructure Optimization Approach to Reverse Osmosis Desalination Plants.. <i>Membranes</i> , <b>2022</b> , 12,	3.8	2
505	Data-Driven Optimization of Mixed-integer Bi-level Multi-follower Integrated Planning and Scheduling Problems Under Demand Uncertainty. <i>Computers and Chemical Engineering</i> , <b>2022</b> , 156, 107551-107551	4.6	6
504	A novel quantitative forecasting framework in energy with applications in designing energy-intelligent tax policies. <i>Applied Energy</i> , <b>2022</b> , 305, 117790	10.7	1
503	Operability and control analysis in modular process intensification systems <b>2022</b> , 207-221		
502	A framework for synthesis of operable and intensified reactive separation systems <b>2022</b> , 223-246		
501	Synthesis of operable process intensification systems <b>2022</b> , 147-160		
500	Computer-aided modular process intensification: design, synthesis, and operability <b>2022</b> , 19-41		
499	Process intensification synthesis of dividing wall column systems <b>2022</b> , 187-206		
498	A software prototype for synthesis of operable process intensification systems <b>2022</b> , 247-261		
497	Envelope of design solutions for intensified reaction/separation systems <b>2022</b> , 163-172		
496	Introduction to modular process intensification <b>2022</b> , 3-18		
495	Phenomena-based synthesis representation for modular process intensification <b>2022</b> , 45-57		
494	Multi-parametric model predictive control <b>2022</b> , 123-145		
493	A decision-making framework for the optimal design of renewable energy systems under energy-water-land nexus considerations.. <i>Science of the Total Environment</i> , <b>2022</b> , 827, 154185	10.2	2
492	Data-driven and safety-aware holistic production planning. <i>Journal of Loss Prevention in the Process Industries</i> , <b>2022</b> , 77, 104754	3.5	0

491	Explicit Model Predictive Control for a Highly Interacting System. <i>IFAC-PapersOnLine</i> , <b>2022</b> , 55, 247-252	0.7	1
490	Combining Experimental Isotherms, Minimalistic Simulations, and a Model to Understand and Predict Chemical Adsorption onto Montmorillonite Clays. <i>ACS Omega</i> , <b>2021</b> , 6, 14090-14103	3.9	2
489	An optimization framework for the design of reverse osmosis desalination plants under food-energy-water nexus considerations. <i>Desalination</i> , <b>2021</b> , 503, 114937	10.3	16
488	Multiobjective Optimization of Mixed-Integer Linear Programming Problems: A Multiparametric Optimization Approach. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2021</b> , 60, 8493-8503	3.9	5
487	Multiparametric/explicit nonlinear model predictive control for quadratically constrained problems. <i>Journal of Process Control</i> , <b>2021</b> , 103, 55-66	3.9	1
486	A space exploration algorithm for multiparametric programming via Delaunay triangulation. <i>Optimization and Engineering</i> , <b>2021</b> , 22, 555-579	2.1	1
485	The exact solution of multiparametric quadratically constrained quadratic programming problems. <i>Journal of Global Optimization</i> , <b>2021</b> , 79, 59-85	1.5	4
484	Simultaneous design & control of a reactive distillation system [A parametric optimization & control approach. <i>Chemical Engineering Science</i> , <b>2021</b> , 230, 116232	4.4	10
483	A multi-scale energy systems engineering approach towards integrated multi-product network optimization. <i>Applied Energy</i> , <b>2021</b> , 281, 116020	10.7	9
482	Towards a Software Prototype for Synthesis of Operable Process Intensification Systems. <i>Computer Aided Chemical Engineering</i> , <b>2021</b> , 50, 767-772	0.6	
481	Predicting the Estrogen Receptor Activity of Environmental Chemicals by Single-Cell Image Analysis and Data-driven Modeling. <i>Computer Aided Chemical Engineering</i> , <b>2021</b> , 50, 481-486	0.6	
480	An Optimization Framework for Solving Integrated Planning and Scheduling Problems for Dense Energy Carriers. <i>IFAC-PapersOnLine</i> , <b>2021</b> , 54, 621-626	0.7	6
479	Multiparametric Programming in Process Systems Engineering: Recent Developments and Path Forward. <i>Frontiers in Chemical Engineering</i> , <b>2021</b> , 2,	1	9
478	Bi-level Mixed-Integer Data-Driven Optimization of Integrated Planning and Scheduling Problems. <i>Computer Aided Chemical Engineering</i> , <b>2021</b> , 50, 1707-1713	0.6	3
477	Operability and control in process intensification and modular design: Challenges and opportunities. <i>AIChE Journal</i> , <b>2021</b> , 67, e17204	3.6	10
476	A systems engineering framework for the optimization of food supply chains under circular economy considerations. <i>Science of the Total Environment</i> , <b>2021</b> , 794, 148726	10.2	15
475	DigiGlyc: A hybrid tool for reactive scheduling in cell culture systems. <i>Computers and Chemical Engineering</i> , <b>2021</b> , 154, 107460	4	1
474	An Energy-Water-Food Nexus-based Decision-making Framework to Guide National Priorities in Qatar. <i>Sustainable Cities and Society</i> , <b>2021</b> , 75, 103342	10.1	5

473	Optimal design of integrated urban energy systems under uncertainty and sustainability requirements. <i>Computers and Chemical Engineering</i> , <b>2021</b> , 155, 107502	4	3
472	A framework to predict the price of energy for the end-users with applications to monetary and energy policies. <i>Nature Communications</i> , <b>2021</b> , 12, 18	17.4	11
471	Towards a Circular Economy Calculator for Measuring the Circularity of Companies. <i>Computer Aided Chemical Engineering</i> , <b>2021</b> , 50, 1547-1552	0.6	3
470	Circular Economy Systems Engineering: A case study on the Coffee Supply Chain. <i>Computer Aided Chemical Engineering</i> , <b>2021</b> , 50, 1541-1546	0.6	2
469	Data-Driven Prescriptive Maintenance: Failure Prediction Using Ensemble Support Vector Classification for Optimal Process and Maintenance Scheduling. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 19607-19622	3.9	4
468	Parametric optimization and control for a smart Proton Exchange Membrane Water Electrolysis (PEMWE) system. <i>Journal of Process Control</i> , <b>2020</b> , 91, 37-49	3.9	5
467	Toward an Envelope of Design Solutions for Combined/Intensified Reaction/Separation Systems. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 11350-11354	3.9	5
466	A hierarchical clustering decomposition algorithm for optimizing renewable power systems with storage. <i>Applied Energy</i> , <b>2020</b> , 270, 115190	10.7	25
465	A Multiscale Energy Systems Engineering Approach for Renewable Power Generation and Storage Optimization. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 7706-7721	3.9	18
464	An integrated data-driven modeling & global optimization approach for multi-period nonlinear production planning problems. <i>Computers and Chemical Engineering</i> , <b>2020</b> , 141, 107007	4	2
463	A data-driven optimization algorithm for differential algebraic equations with numerical infeasibilities. <i>AIChE Journal</i> , <b>2020</b> , 66, e16657	3.6	10
462	Integrating deep learning models and multiparametric programming. <i>Computers and Chemical Engineering</i> , <b>2020</b> , 136, 106801	4	14
461	DOMINO: Data-driven Optimization of bi-level Mixed-Integer Nonlinear Problems. <i>Journal of Global Optimization</i> , <b>2020</b> , 78, 1-36	1.5	13
460	Classification of estrogenic compounds by coupling high content analysis and machine learning algorithms. <i>PLoS Computational Biology</i> , <b>2020</b> , 16, e1008191	5	3
459	Production Scheduling of Supply Chains Comprised of Modular Production Units. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 11452-11457	0.7	0
458	Operability and Safety Considerations in Process Intensification. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 11434-11439	3.9	3
457	A Global Optimization Algorithm for the Solution of Tri-Level Mixed-Integer Quadratic Programming Problems. <i>Advances in Intelligent Systems and Computing</i> , <b>2020</b> , 579-588	0.4	1
456	The Integration of Explicit MPC and ReLU based Neural Networks. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 11350-11355	3.5	3

455 Multi-parametric Mixed-integer Quadratic Programming **2020**, 107-123

454 Solution Strategies for mp-LP and mp-QP Problems **2020**, 67-87

453 Solving Multi-parametric Programming Problems Using MATLAB® **2020**, 147-163

452 PAROC: PARAmetric Optimization and Control **2020**, 243-280

451 Multi-parametric Mixed-integer Linear Programming **2020**, 89-106

450 Solution Strategies for mp-MILP and mp-MIQP Problems **2020**, 125-146

449 Other Developments in Multi-parametric Optimization **2020**, 165-185

448 Extensions to Other Classes of Problems **2020**, 211-242

447 HY-POP: Hyperparameter optimization of machine learning models through parametric programming. *Computers and Chemical Engineering*, **2020**, 139, 106902 4 12

446 A Strategy for the Exact Solution of Multiparametric/Explicit Quadratically Constrained NMPC Problems. *IFAC-PapersOnLine*, **2020**, 53, 11380-11385 0.7 1

445 Circular Economy - A challenge and an opportunity for Process Systems Engineering. *Computers and Chemical Engineering*, **2020**, 133, 106629 4 58

444 A Systematic Framework for the synthesis of operable process intensification systems [Reactive separation systems. *Computers and Chemical Engineering*, **2020**, 134, 106675 4 29

443 Integrated Data-Driven Process Monitoring and Explicit Fault-Tolerant Multiparametric Control. *Industrial & Engineering Chemistry Research*, **2020**, 59, 2291-2306 3.9 3

442 Optimal Design of Integrated Urban Energy System Under Uncertainty and Sustainability Requirements. *Computer Aided Chemical Engineering*, **2020**, 48, 1423-1428 0.6 1

441 Integrated process design, scheduling, and model predictive control of batch processes with closed-loop implementation. *AIChE Journal*, **2020**, 66, e16981 3.6 8

440 Computational framework for smart manufacturing via parametric optimization and control (PAROC) **2020**, 245-259 1

439 Integrating Deep Learning and Explicit MPC for Advanced Process Control **2020**, 2

438 A partial multiparametric optimization strategy to improve the computational performance of model predictive control. *Computers and Chemical Engineering*, **2020**, 142, 107057 4 3

437	Integrated Process Design and Operational Optimization via Multiparametric Programming. <i>Synthesis Lectures on Engineering Science and Technology</i> , <b>2020</b> , 2, 1-258	0.3	3
436	Integrated Modeling of Transfer Learning and Intelligent Heuristic Optimization for Steam Cracking Process. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 16357-16367	3.9	5
435	Disaster-Resilient Design of Manufacturing Facilities Through Process Integration: Principal Strategies, Perspectives, and Research Challenges. <i>Frontiers in Sustainability</i> , <b>2020</b> , 1,	2.1	14
434	Adjustable robust optimization through multi-parametric programming. <i>Optimization Letters</i> , <b>2020</b> , 14, 873-887	1.1	11
433	Multi-scale energy systems engineering for optimal natural gas utilization. <i>Catalysis Today</i> , <b>2020</b> , 356, 18-26	5.3	8
432	Towards a systematic framework for the synthesis of operable process intensification systems - application to reactive distillation systems. <i>Computer Aided Chemical Engineering</i> , <b>2019</b> , 73-78	0.6	
431	Toward the Optimization of Hydrogen, Ammonia, and Methanol Supply Chains. <i>IFAC-PapersOnLine</i> , <b>2019</b> , 52, 844-849	0.7	5
430	Process resilience based upset events prediction analysis: Application to a batch reactor. <i>Journal of Loss Prevention in the Process Industries</i> , <b>2019</b> , 62, 103957	3.5	6
429	Control of a dual mode separation process via multi-parametric Model Predictive Control. <i>IFAC-PapersOnLine</i> , <b>2019</b> , 52, 988-993	0.7	2
428	Spatially resolved oxygen reaction, water, and temperature distribution: Experimental results as a function of flow field and implications for polymer electrolyte fuel cell operation. <i>Applied Energy</i> , <b>2019</b> , 252, 113421	10.7	3
427	Parametric optimization and control toward the design of a smart metal hydride refueling system. <i>AIChE Journal</i> , <b>2019</b> , 65, e16680	3.6	9
426	Smart Manufacturing <b>2019</b> , 1-10		1
425	Assisting continuous biomanufacturing through advanced control in downstream purification. <i>Computers and Chemical Engineering</i> , <b>2019</b> , 125, 232-248	4	16
424	Integrated process design, scheduling, and control using multiparametric programming. <i>Computers and Chemical Engineering</i> , <b>2019</b> , 125, 164-184	4	36
423	A Multi-Parametric optimization approach for bilevel mixed-integer linear and quadratic programming problems. <i>Computers and Chemical Engineering</i> , <b>2019</b> , 125, 98-113	4	19
422	Energy systems engineering - a guided tour. <i>BMC Chemical Engineering</i> , <b>2019</b> , 1,	3.5	9
421	B-POP: Bi-level parametric optimization toolbox. <i>Computers and Chemical Engineering</i> , <b>2019</b> , 122, 193-202		11
420	Multi-parametric global optimization approach for tri-level mixed-integer linear optimization problems. <i>Journal of Global Optimization</i> , <b>2019</b> , 74, 443-465	1.5	11

4 <sup>19</sup>	Development of the Texas A&M Superfund Research Program Computational Platform for Data Integration, Visualization, and Analysis. <i>Computer Aided Chemical Engineering</i> , <b>2019</b> , 46, 967-972	0.6	2
4 <sup>18</sup>	Towards the Grand Unification of Process Design, Scheduling, and Control—Utopia or Reality?. <i>Processes</i> , <b>2019</b> , 7, 461	2.9	25
4 <sup>17</sup>	A data-driven alarm and event management framework. <i>Journal of Loss Prevention in the Process Industries</i> , <b>2019</b> , 62, 103959	3.5	10
4 <sup>16</sup>	Grouping of complex substances using analytical chemistry data: A framework for quantitative evaluation and visualization. <i>PLoS ONE</i> , <b>2019</b> , 14, e0223517	3.7	12
4 <sup>15</sup>	Two-Stage Land Use Optimization for A Food-Energy-Water Nexus System: A Case Study In Texas Edwards Region. <i>Computer Aided Chemical Engineering</i> , <b>2019</b> , 47, 205-210	0.6	4
4 <sup>14</sup>	Infrastructure Planning and Operational Scheduling for Power Generating Systems: An Energy-Water Nexus Approach. <i>Computer Aided Chemical Engineering</i> , <b>2019</b> , 233-238	0.6	9
4 <sup>13</sup>	Generalized Modular Representation Framework for the Synthesis of Extractive Separation Systems. <i>Computer Aided Chemical Engineering</i> , <b>2019</b> , 475-480	0.6	4
4 <sup>12</sup>	Synthesis of operable process intensification systems: advances and challenges. <i>Current Opinion in Chemical Engineering</i> , <b>2019</b> , 25, 101-107	5.4	19
4 <sup>11</sup>	A Bi-Level Formulation And Solution Method For The Integration Of Process Design And Scheduling. <i>Computer Aided Chemical Engineering</i> , <b>2019</b> , 17-22	0.6	4
4 <sup>10</sup>	Energy Carrier Supply Chain Optimization: A Texas Case Study. <i>Computer Aided Chemical Engineering</i> , <b>2019</b> , 1-6	0.6	8
4 <sup>09</sup>	Control of Small-Scale Chromatographic Systems Under Disturbances. <i>Computer Aided Chemical Engineering</i> , <b>2019</b> , 47, 269-274	0.6	4
4 <sup>08</sup>	Energy Portfolio Assessment Tool (EPAT): Sustainable energy planning using the WEF nexus approach - Texas case. <i>Science of the Total Environment</i> , <b>2019</b> , 648, 1649-1664	10.2	15
4 <sup>07</sup>	Explicit (Offline) Optimization for MPC. <i>Control Engineering</i> , <b>2019</b> , 359-385	1	0
4 <sup>06</sup>	Synthesis of Operable Process Intensification Systems—Steady-State Design with Safety and Operability Considerations. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 6049-6068	3.9	28
4 <sup>05</sup>	Methodology for robust multi-parametric control in linear continuous-time systems. <i>Journal of Process Control</i> , <b>2019</b> , 73, 58-74	3.9	2
4 <sup>04</sup>	A Nonlinear Support Vector Machine-Based Feature Selection Approach for Fault Detection and Diagnosis: Application to the Tennessee Eastman Process. <i>AIChE Journal</i> , <b>2019</b> , 65, 992-1005	3.6	36
4 <sup>03</sup>	Sustainable ammonia production through process synthesis and global optimization. <i>AIChE Journal</i> , <b>2019</b> , 65, e16498	3.6	54
4 <sup>02</sup>	A Food-Energy-Water Nexus approach for land use optimization. <i>Science of the Total Environment</i> , <b>2019</b> , 659, 7-19	10.2	77

401	Process resilience analysis based data-driven maintenance optimization: Application to cooling tower operations. <i>Computers and Chemical Engineering</i> , <b>2019</b> , 121, 27-45	4	18
400	Optimal Design of Energy Systems Using Constrained Grey-Box Multi-Objective Optimization. <i>Computers and Chemical Engineering</i> , <b>2018</b> , 116, 488-502	4	50
399	Simultaneous Process Scheduling and Control: A Multiparametric Programming-Based Approach. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 3963-3976	3.9	26
398	Big Data Approach to Batch Process Monitoring: Simultaneous Fault Detection and Diagnosis Using Nonlinear Support Vector Machine-based Feature Selection. <i>Computers and Chemical Engineering</i> , <b>2018</b> , 115, 46-63	4	53
397	A multi-objective optimization for the design and operation of a hydrogen network for transportation fuel. <i>Chemical Engineering Research and Design</i> , <b>2018</b> , 131, 279-292	5.5	24
396	Modeling and solution for steelmaking scheduling with batching decisions and energy constraints. <i>Computers and Chemical Engineering</i> , <b>2018</b> , 116, 368-384	4	20
395	Enhancing natural gas-to-liquids (GTL) processes through chemical looping for syngas production: Process synthesis and global optimization. <i>Computers and Chemical Engineering</i> , <b>2018</b> , 113, 222-239	4	14
394	Computational tools in the assistance of personalized healthcare. <i>Computer Aided Chemical Engineering</i> , <b>2018</b> , 139-206	0.6	1
393	Land use modeling and optimization based on food-energy-water nexus: a case study on crop-livestock systems. <i>Computer Aided Chemical Engineering</i> , <b>2018</b> , 44, 1939-1944	0.6	11
392	Optimal Chemical Grouping and Sorbent Material Design by Data Analysis, Modeling and Dimensionality Reduction Techniques. <i>Computer Aided Chemical Engineering</i> , <b>2018</b> , 43, 421-426	0.6	7
391	Towards the synthesis of modular process intensification systems with safety and operability considerations - application to heat exchanger network. <i>Computer Aided Chemical Engineering</i> , <b>2018</b> , 43, 705-710	0.6	3
390	Towards a Quantitative Food-Energy-Water Nexus Metric to Facilitate Decision Making in Process Systems: A Case Study on a Dairy Production Plant. <i>Computer Aided Chemical Engineering</i> , <b>2018</b> , 43, 391-396	0.6	11
389	Integration of Design, Scheduling, and Control of Combined Heat and Power Systems: A Multiparametric Programming Based Approach. <i>Computer Aided Chemical Engineering</i> , <b>2018</b> , 44, 2203-2208	0.6	2
388	Simultaneous Fault Detection and Identification in Continuous Processes via nonlinear Support Vector Machine based Feature Selection. <i>Computer Aided Chemical Engineering</i> , <b>2018</b> , 44, 2077-2082	0.6	10
387	An overview of process systems engineering approaches for process intensification: State of the art. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2018</b> , 133, 160-210	3.7	158
386	Dynamic Modeling and Explicit Control of a PEM Water Electrolysis Process. <i>Smart and Sustainable Manufacturing Systems</i> , <b>2018</b> , 2, 20180017	0.8	3
385	Stem cell biomanufacturing under uncertainty: A case study in optimizing red blood cell production. <i>AIChE Journal</i> , <b>2018</b> , 64, 3011-3022	3.6	7
384	Smart manufacturing and energy systems. <i>Computers and Chemical Engineering</i> , <b>2018</b> , 114, 130-144	4	37

383	Municipal solid waste to liquid transportation fuels [Part III: An optimization-based nationwide supply chain management framework. <i>Computers and Chemical Engineering</i> , <b>2018</b> , 116, 468-487	4	10
382	Towards a systematic framework for the synthesis of operable process intensification systems. <i>Computer Aided Chemical Engineering</i> , <b>2018</b> , 44, 2383-2388	0.6	8
381	On multiparametric/explicit NMPC for Quadratically Constrained Problems. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 400-405	0.7	8
380	Reprint of: Big data approach to batch process monitoring: Simultaneous fault detection and diagnosis using nonlinear support vector machine-based feature selection. <i>Computers and Chemical Engineering</i> , <b>2018</b> , 116, 503-520	4	13
379	Natural-Gas-Based SOFC in Distributed Electricity Generation: Modeling and Control <b>2018</b> , 509-525		
378	A novel algorithm for the global solution of mixed-integer bi-level multi-follower problems and its application to Planning & Scheduling integration <b>2018</b> ,		5
377	Resilience-Based Process Upset Event Prediction Analysis for Uncertainty Management Using Bayesian Deep Learning: Application to a Polyvinyl Chloride Process System. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 14822-14836	3.9	11
376	The impact of model approximation in multiparametric model predictive control. <i>Chemical Engineering Research and Design</i> , <b>2018</b> , 139, 211-223	5.5	11
375	Toward Optimal Synthesis of Renewable Ammonia and Methanol Processes (RAMP). <i>Computer Aided Chemical Engineering</i> , <b>2018</b> , 1705-1710	0.6	10
374	Reprint of: Enhancing natural gas-to-liquids (GTL) processes through chemical looping for syngas production: Process synthesis and global optimization. <i>Computers and Chemical Engineering</i> , <b>2018</b> , 116, 521-538	4	2
373	A hierarchical Food-Energy-Water Nexus (FEW-N) decision-making approach for Land Use Optimization. <i>Computer Aided Chemical Engineering</i> , <b>2018</b> , 44, 1885-1890	0.6	16
372	Model Approximation in Multiparametric Optimization and Control [A Computational Study. <i>Computer Aided Chemical Engineering</i> , <b>2018</b> , 44, 655-660	0.6	1
371	Explicit hybrid model predictive control strategies for intravenous anaesthesia. <i>Computers and Chemical Engineering</i> , <b>2017</b> , 106, 814-825	4	20
370	Intelligent, model-based control towards the intensification of downstream processes. <i>Computers and Chemical Engineering</i> , <b>2017</b> , 105, 173-184	4	16
369	Modeling, estimation and control of the anaesthesia process. <i>Computers and Chemical Engineering</i> , <b>2017</b> , 107, 318-332	4	16
368	Advanced model-based control strategies for the intensification of upstream and downstream processing in mAb production. <i>Biotechnology Progress</i> , <b>2017</b> , 33, 966-988	2.8	15
367	Explicit model predictive control: A connected-graph approach. <i>Automatica</i> , <b>2017</b> , 76, 103-112	5.7	42
366	A Multiparametric Mixed-integer Bi-level Optimization Strategy for Supply Chain Planning Under Demand Uncertainty * *We are grateful to the Department of Chemical Engineering and the Faculty of Engineering of Imperial College London for an EPSRC-funded Doctoral Training Partnership (DTP) studentship. Financial support from Texas A & M University and Texas A & M Energy Institute is also gratefully acknowledged. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 10178-10183	0.7	14

365	Multi-parametric programming based algorithms for the global solution of bi-level mixed-integer linear and quadratic programming problems. <i>Computer Aided Chemical Engineering</i> , <b>2017</b> , 2125-2130	0.6	
364	Model-based multi-parametric programming strategies towards the integration of design, control and operational optimization. <i>Computer Aided Chemical Engineering</i> , <b>2017</b> , 1867-1872	0.6	4
363	Model Use in WEF Nexus Analysis: a Review of Issues. <i>Current Sustainable/Renewable Energy Reports</i> , <b>2017</b> , 4, 144-152	2.8	16
362	Data for WEF Nexus Analysis: a Review of Issues. <i>Current Sustainable/Renewable Energy Reports</i> , <b>2017</b> , 4, 137-143	2.8	14
361	Draft Computational Tools and Methods <b>2017</b> , 13-65		
360	Volatile Anaesthesia <b>2017</b> , 67-102		
359	Intravenous Anaesthesia <b>2017</b> , 103-156		
358	Process design and control optimization: A simultaneous approach by multi-parametric programming. <i>AIChE Journal</i> , <b>2017</b> , 63, 4827-4846	3.6	63
357	A multi-scale energy systems engineering approach to residential combined heat and power systems. <i>Computers and Chemical Engineering</i> , <b>2017</b> , 102, 128-138	4	20
356	Modelling, Design and Control Optimization of a Residential Scale CHP System <b>2017</b> , 475-506		0
355	On unbounded and binary parameters in multi-parametric programming: applications to mixed-integer bilevel optimization and duality theory. <i>Journal of Global Optimization</i> , <b>2017</b> , 69, 587-606	1.5	14
354	Framework and Tools <b>2017</b> , 1-11		
353	Part A: Type 1 Diabetes Mellitus <b>2017</b> , 157-224		
352	An Integrated Platform for the Study of Leukaemia <b>2017</b> , 225-232		
351	In vitro Studies <b>2017</b> , 233-264		0
350	In silico Acute Myeloid Leukaemia <b>2017</b> , 265-300		
349	Robust Multi-Parametric Control of Continuous-Time Linear Dynamic Systems. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 4660-4665	0.7	
348	A multi-parametric bi-level optimization strategy for hierarchical model predictive control. <i>Computer Aided Chemical Engineering</i> , <b>2017</b> , 1591-1596	0.6	9

347	Computational tools for the advanced control of periodic processes - Application to a chromatographic separation. <i>Computer Aided Chemical Engineering</i> , <b>2016</b> , 38, 1665-1670	0.6	1
346	A centralized/decentralized control approach for periodic systems with application to chromatographic separation processes. <i>IFAC-PapersOnLine</i> , <b>2016</b> , 49, 159-164	0.7	2
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