

# Burcu Beykal

## List of Publications by Year in descending order

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18  
papers

367  
citations

840776

11  
h-index

839539

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18  
docs citations

18  
times ranked

384  
citing authors

#	ARTICLE	IF	CITATIONS
1	Global optimization of grey-box computational systems using surrogate functions and application to highly constrained oil-field operations. <i>Computers and Chemical Engineering</i> , 2018, 114, 99-110.	3.8	65
2	Optimal design of energy systems using constrained grey-box multi-objective optimization. <i>Computers and Chemical Engineering</i> , 2018, 116, 488-502.	3.8	60
3	Influence of surface charge on the rate, extent, and structure of adsorbed Bovine Serum Albumin to gold electrodes. <i>Journal of Colloid and Interface Science</i> , 2015, 460, 321-328.	9.4	38
4	Dimensionality reduction for production optimization using polynomial approximations. <i>Computational Geosciences</i> , 2017, 21, 247-266.	2.4	31
5	DOMINO: Data-driven Optimization of bi-level Mixed-Integer NOnlinear Problems. <i>Journal of Global Optimization</i> , 2020, 78, 1-36.	1.8	23
6	A hierarchical Food-Energy-Water Nexus (FEW-N) decision-making approach for Land Use Optimization. <i>Computer Aided Chemical Engineering</i> , 2018, 44, 1885-1890.	0.5	21
7	Grouping of complex substances using analytical chemistry data: A framework for quantitative evaluation and visualization. <i>PLoS ONE</i> , 2019, 14, e0223517.	2.5	21
8	A data-driven optimization algorithm for differential algebraic equations with numerical infeasibilities. <i>AIChE Journal</i> , 2020, 66, e16657.	3.6	18
9	Data-driven optimization of mixed-integer bi-level multi-follower integrated planning and scheduling problems under demand uncertainty. <i>Computers and Chemical Engineering</i> , 2022, 156, 107551.	3.8	18
10	Integrated Modeling of Transfer Learning and Intelligent Heuristic Optimization for a Steam Cracking Process. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 16357-16367.	3.7	16
11	Classification of estrogenic compounds by coupling high content analysis and machine learning algorithms. <i>PLoS Computational Biology</i> , 2020, 16, e1008191.	3.2	11
12	Frequency response of microcantilevers immersed in gaseous, liquid, and supercritical carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2013, 81, 254-264.	3.2	10
13	Optimal Chemical Grouping and Sorbent Material Design by Data Analysis, Modeling and Dimensionality Reduction Techniques. <i>Computer Aided Chemical Engineering</i> , 2018, 43, 421-426.	0.5	8
14	Multiobjective Optimization of Mixed-Integer Linear Programming Problems: A Multiparametric Optimization Approach. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 8493-8503.	3.7	8
15	Combining Experimental Isotherms, Minimalistic Simulations, and a Model to Understand and Predict Chemical Adsorption onto Montmorillonite Clays. <i>ACS Omega</i> , 2021, 6, 14090-14103.	3.5	7
16	Bi-level Mixed-Integer Data-Driven Optimization of Integrated Planning and Scheduling Problems. <i>Computer Aided Chemical Engineering</i> , 2021, 50, 1707-1713.	0.5	6
17	Development of the Texas A&M Superfund Research Program Computational Platform for Data Integration, Visualization, and Analysis. <i>Computer Aided Chemical Engineering</i> , 2019, 46, 967-972.	0.5	3
18	Predicting the Estrogen Receptor Activity of Environmental Chemicals by Single-Cell Image Analysis and Data-driven Modeling. <i>Computer Aided Chemical Engineering</i> , 2021, 50, 481-486.	0.5	3