

# Jong Min Lee

## List of Publications by Citations

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145  
papers

1,749  
citations

22  
h-index

38  
g-index

156  
ext. papers

2,118  
ext. citations

3.7  
avg. IF

5.17  
L-index

#	Paper	IF	Citations
145	Flux balance analysis in the era of metabolomics. <i>Briefings in Bioinformatics</i> , <b>2006</b> , 7, 140-50	13.4	202
144	Dynamic analysis of integrated signaling, metabolic, and regulatory networks. <i>PLoS Computational Biology</i> , <b>2008</b> , 4, e1000086	5	149
143	Approximate dynamic programming-based approaches for input-output data-driven control of nonlinear processes. <i>Automatica</i> , <b>2005</b> , 41, 1281-1288	5.7	91
142	Constrained Bayesian state estimation: A comparative study and a new particle filter based approach. <i>Journal of Process Control</i> , <b>2010</b> , 20, 143-157	3.9	89
141	A pumpless multi-organ-on-a-chip (MOC) combined with a pharmacokinetic-pharmacodynamic (PK-PD) model. <i>Biotechnology and Bioengineering</i> , <b>2017</b> , 114, 432-443	4.9	78
140	An introduction to a dynamic plant-wide optimization strategy for an integrated plant. <i>Computers and Chemical Engineering</i> , <b>2004</b> , 29, 199-208	4	63
139	Iterative learning model predictive control for constrained multivariable control of batch processes. <i>Computers and Chemical Engineering</i> , <b>2016</b> , 93, 284-292	4	51
138	Generalized orthogonal locality preserving projections for nonlinear fault detection and diagnosis. <i>Chemometrics and Intelligent Laboratory Systems</i> , <b>2009</b> , 96, 75-83	3.8	50
137	Learning a data-dependent kernel function for KPCA-based nonlinear process monitoring. <i>Chemical Engineering Research and Design</i> , <b>2009</b> , 87, 1471-1480	5.5	48
136	Approximate dynamic programming based approach to process control and scheduling. <i>Computers and Chemical Engineering</i> , <b>2006</b> , 30, 1603-1618	4	47
135	Choice of approximator and design of penalty function for an approximate dynamic programming based control approach. <i>Journal of Process Control</i> , <b>2006</b> , 16, 135-156	3.9	45
134	An approximate dynamic programming based approach to dual adaptive control. <i>Journal of Process Control</i> , <b>2009</b> , 19, 859-864	3.9	39
133	Mechanistic study of glycerol dehydration on Brønsted acidic amorphous aluminosilicate. <i>Journal of Catalysis</i> , <b>2016</b> , 341, 33-43	7.3	33
132	Real-time estimation of glucose concentration in algae cultivation system using Raman spectroscopy. <i>Bioresource Technology</i> , <b>2013</b> , 142, 131-7	11	31
131	Interfacial Adsorption and Redox Coupling of Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> with Nanographene for High-Rate Lithium Storage. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 16565-72	9.5	28
130	Robust leak detection and its localization using interval estimation for water distribution network. <i>Computers and Chemical Engineering</i> , <b>2016</b> , 92, 1-17	4	28
129	Multi-objective Bayesian optimization of chemical reactor design using computational fluid dynamics. <i>Computers and Chemical Engineering</i> , <b>2018</b> , 119, 25-37	4	27

128	Online Burst Detection and Location of Water Distribution Systems and Its Practical Applications. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2016</b> , 142, 04015033	2.8	26
127	Simulation based strategy for nonlinear optimal control: application to a microbial cell reactor. <i>International Journal of Robust and Nonlinear Control</i> , <b>2003</b> , 13, 347-363	3.6	24
126	A model-based deep reinforcement learning method applied to finite-horizon optimal control of nonlinear control-affine system. <i>Journal of Process Control</i> , <b>2020</b> , 87, 166-178	3.9	23
125	Point-to-point iterative learning model predictive control. <i>Automatica</i> , <b>2018</b> , 89, 135-143	5.7	23
124	Dynamic modelling of mixotrophic microalgal photobioreactor systems with time-varying yield coefficient for the lipid consumption. <i>Bioresource Technology</i> , <b>2014</b> , 162, 228-35	11	23
123	Bayesian method for multirate data synthesis and model calibration. <i>AIChE Journal</i> , <b>2011</b> , 57, 1514-1525	3.6	22
122	Stochastic iterative learning control for discrete linear time-invariant system with batch-varying reference trajectories. <i>Journal of Process Control</i> , <b>2015</b> , 36, 64-78	3.9	21
121	Simultaneously Enhancing the Stability and Catalytic Activity of Multimeric Lysine Decarboxylase CadA by Engineering Interface Regions for Enzymatic Production of Cadaverine at High Concentration of Lysine. <i>Biotechnology Journal</i> , <b>2017</b> , 12, 1700278	5.6	20
120	Iterative Learning Control Integrated with Model Predictive Control for Real-Time Disturbance Rejection of Batch Processes. <i>Journal of Chemical Engineering of Japan</i> , <b>2017</b> , 50, 415-421	0.8	18
119	Progress and challenges in control of chemical processes. <i>Annual Review of Chemical and Biomolecular Engineering</i> , <b>2014</b> , 5, 383-404	8.9	18
118	Simulation-Based Optimization of Multistage Separation Process in Offshore Oil and Gas Production Facilities. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 8810-8820	3.9	16
117	Simulation-based learning of cost-to-go for control of nonlinear processes. <i>Korean Journal of Chemical Engineering</i> , <b>2004</b> , 21, 338-344	2.8	16
116	Quantitative performance analysis of graphite-LiFePO <sub>4</sub> battery working at low temperature. <i>Chemical Engineering Science</i> , <b>2014</b> , 118, 74-82	4.4	15
115	Value function-based approach to the scheduling of multiple controllers. <i>Journal of Process Control</i> , <b>2008</b> , 18, 533-542	3.9	15
114	Extension of the Hansen solubility parameter concept to the micronization of cyclotrimethylenetrinitramine crystals by supercritical anti-solvent process. <i>Journal of Supercritical Fluids</i> , <b>2016</b> , 111, 112-120	4.2	13
113	NARX modeling for real-time optimization of air and gas compression systems in chemical processes. <i>Computers and Chemical Engineering</i> , <b>2018</b> , 115, 262-274	4	13
112	A tighter cut generation strategy for acceleration of Benders decomposition. <i>Computers and Chemical Engineering</i> , <b>2012</b> , 44, 84-93	4	13
111	Hybrid Nonlinear Model Predictive Control of LNT and Urealess SCR Aftertreatment System. <i>IEEE Transactions on Control Systems Technology</i> , <b>2019</b> , 27, 2305-2313	4.8	11

110	Optimal Design and Operating Conditions of the CO <sub>2</sub> Liquefaction Process, Considering Variations in Cooling Water Temperature. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 12855-12866	3.9	11
109	Application of chemical reaction engineering principles to body-on-a-chip systems. <i>AIChE Journal</i> , <b>2018</b> , 64, 4351-4360	3.6	11
108	Move blocked model predictive control with improved optimality using semi-explicit approach for applying time-varying blocking structure. <i>Journal of Process Control</i> , <b>2020</b> , 92, 50-61	3.9	10
107	Stochastic Nonlinear Optimization for Robust Design of Catalysts. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 3938-3946	3.9	10
106	Design of single mixed refrigerant natural gas liquefaction process considering load variation. <i>Chemical Engineering Research and Design</i> , <b>2018</b> , 139, 89-103	5.5	10
105	Optimization of microalgal photobioreactor system using model predictive control with experimental validation. <i>Bioprocess and Biosystems Engineering</i> , <b>2016</b> , 39, 1235-46	3.7	9
104	Multi-period energy planning model under uncertainty in market prices and demands of energy resources: A case study of Korea power system. <i>Chemical Engineering Research and Design</i> , <b>2016</b> , 114, 341-358	5.5	9
103	Bayesian Inference of Aqueous Mineral Carbonation Kinetics for Carbon Capture and Utilization. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 8246-8259	3.9	8
102	A switching robust model predictive control approach for nonlinear systems. <i>Journal of Process Control</i> , <b>2013</b> , 23, 852-860	3.9	8
101	Probabilistic modeling and dynamic optimization for performance improvement and risk management of plant-wide operation. <i>Computers and Chemical Engineering</i> , <b>2010</b> , 34, 567-579	4	8
100	Move blocked model predictive control with guaranteed stability and improved optimality using linear interpolation of base sequences. <i>International Journal of Control</i> , <b>2020</b> , 1-13	1.5	7
99	Robust Leakage Detection and Interval Estimation of Location in Water Distribution Network. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 1264-1269	0.7	7
98	A comparative study of soft sensor design for lipid estimation of microalgal photobioreactor system with experimental validation. <i>Bioresource Technology</i> , <b>2015</b> , 179, 275-283	11	7
97	Minimax control using parametric approximate dynamic programming. <i>Control Engineering Practice</i> , <b>2010</b> , 18, 190-197	3.9	7
96	Ensemble learning based latent variable model predictive control for batch trajectory tracking under concept drift. <i>Computers and Chemical Engineering</i> , <b>2020</b> , 139, 106875	4	7
95	Tunable lithium storage properties of metal lithium titanates by stoichiometric modulation. <i>Electrochemistry Communications</i> , <b>2016</b> , 64, 26-29	5.1	7
94	Experimental gradient estimation of multivariable systems with correlation by various regression methods and its application to modifier adaptation. <i>Journal of Process Control</i> , <b>2018</b> , 70, 65-79	3.9	7
93	Diagnosis of partial blockage in water pipeline using support vector machine with fault-characteristic peaks in frequency domain. <i>Canadian Journal of Civil Engineering</i> , <b>2017</b> , 44, 707-714	1.3	6

92	Conceptual Design of an Energy-Efficient Process for Separating Aromatic Compounds from Naphtha with a High Concentration of Aromatic Compounds Using 4-Methyl-N-butylpyridinium Tetrafluoroborate Ionic Liquid. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 7273-7284	3.9	6
91	Construction of a Valid Domain for a Hybrid Model and Its Application to Dynamic Optimization with Controlled Exploration. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 16380-16395	3.9	6
90	Transition Model for Simulated Moving Bed Under Nonideal Conditions. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 21625-21640	3.9	6
89	Backstepping control integrated with Lyapunov-based model predictive control. <i>Journal of Process Control</i> , <b>2019</b> , 73, 137-146	3.9	6
88	Optimal design and operating condition of boil-off CO <sub>2</sub> re-liquefaction process, considering seawater temperature variation and compressor discharge temperature limit. <i>Chemical Engineering Research and Design</i> , <b>2017</b> , 124, 29-45	5.5	5
87	Modeling long-time behaviors of industrial multiphase reactors for CO <sub>2</sub> capture using CFD-based compartmental model. <i>Chemical Engineering Journal</i> , <b>2020</b> , 395, 125034	14.7	5
86	A POMDP framework for integrated scheduling of infrastructure maintenance and inspection. <i>Computers and Chemical Engineering</i> , <b>2018</b> , 112, 239-252	4	5
85	Rational engineering of ornithine decarboxylase with greater selectivity for ornithine over lysine through protein network analysis. <i>Journal of Biotechnology</i> , <b>2018</b> , 281, 175-182	3.7	5
84	A prioritization method for replacement of water mains using rank aggregation. <i>Korean Journal of Chemical Engineering</i> , <b>2017</b> , 34, 2584-2590	2.8	5
83	Deep reinforcement learning based finite-horizon optimal tracking control for nonlinear system. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 257-262	0.7	5
82	Optimal Design of a Gas Antisolvent Recrystallization Process of Cyclotetramethylenetetranitramine (HMX) with Particle Size Distribution Model. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 11087-11096	3.9	4
81	A semi-analytical method for determining the optimal stripper pressure in CO <sub>2</sub> capture and liquefaction using monoethanolamine (MEA). <i>International Journal of Greenhouse Gas Control</i> , <b>2016</b> , 46, 271-281	4.2	4
80	An iterative optimization approach to design of control Lyapunov function. <i>Journal of Process Control</i> , <b>2012</b> , 22, 145-155	3.9	4
79	Batch-Wise Nonlinear Model Predictive Control of a Gas Antisolvent Recrystallization Process for the Uniform Production of Micronized HMX with Carbon Dioxide as the Antisolvent. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 11894-11902	3.9	4
78	Optimal Scheduling of the Maintenance and Improvement for Water Main System Using Markov Decision Process. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 379-384	0.7	4
77	Predicting concentrations of a mixture in bioreactor for on-line monitoring using Raman spectroscopy. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2012</b> , 45, 822-827		4
76	Convergence analysis of the deep neural networks based globalized dual heuristic programming. <i>Automatica</i> , <b>2020</b> , 122, 109222	5.7	4
75	Dynamic modelling and sensitivity analysis integrated LNT-pSCR system. <i>IFAC-PapersOnLine</i> , <b>2016</b> , 49, 326-331	0.7	4

74	Efficient online model-based design of experiments via parameter subset selection for batch dynamical systems. <i>Computers and Chemical Engineering</i> , <b>2019</b> , 121, 646-653	4	4
73	Dynamic matrix control applied on propane-mixed refrigerant liquefaction process. <i>Korean Journal of Chemical Engineering</i> , <b>2017</b> , 34, 287-297	2.8	3
72	Ranking-Based Parameter Subset Selection for Nonlinear Dynamics with Stochastic Disturbances under Limited Data. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 21854-21868	3.9	3
71	Model-based reinforcement learning for nonlinear optimal control with practical asymptotic stability guarantees. <i>AIChE Journal</i> , <b>2020</b> , 66, e16544	3.6	3
70	Model Predictive Control (MPC)-Based Supervisory Control and Design of Off-Gas Recovery Plant with Periodic Disturbances from Parallel Batch Reactors. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 3013-3025	3.9	3
69	Sponge-Like Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> Constructed on Graphene for High Li Electroactivities. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2017</b> , 17, 588-93	1.3	3
68	Modern Machine Learning Tools for Monitoring and Control of Industrial Processes: A Survey. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 218-229	0.7	3
67	Sensitivity Analysis with Optimal Input Design and Model Predictive Control for Microalgal Bioreactor Systems. <i>Korean Chemical Engineering Research</i> , <b>2013</b> , 51, 87-92		3
66	Automatic control of simulated moving bed process with deep Q-network. <i>Journal of Chromatography A</i> , <b>2021</b> , 1647, 462073	4.5	3
65	Consensus algorithm-based approach to fundamental modeling of water pipe networks. <i>AIChE Journal</i> , <b>2017</b> , 63, 3860-3870	3.6	2
64	Stochastic Iterative Learning Model Predictive Control based on Stochastic Approximation. <i>IFAC-PapersOnLine</i> , <b>2019</b> , 52, 604-609	0.7	2
63	Dynamic optimization of maintenance and improvement planning for water main system: Periodic replacement approach. <i>Korean Journal of Chemical Engineering</i> , <b>2016</b> , 33, 25-32	2.8	2
62	An Advanced Group Contribution Method for High-Dimensional, Sparse Data Sets. <i>Molecular Informatics</i> , <b>2012</b> , 31, 41-52	3.8	2
61	A fault magnitude based strategy for effective fault classification. <i>Chemical Engineering Research and Design</i> , <b>2013</b> , 91, 530-541	5.5	2
60	Modeling of the polymerization of linear monomers in the presence of multifunctional units. <i>Polymer</i> , <b>2017</b> , 126, 74-86	3.9	2
59	Robust parameter estimation for physiologically based pharmacokinetic model of Tegafur with dissolution dynamics. <i>Chemical Engineering Research and Design</i> , <b>2015</b> , 104, 730-739	5.5	2
58	Iterative learning control algorithm for a class of discrete LTI system with batch-varying reference trajectories <b>2014</b> ,		2
57	A switching control strategy for nonlinear systems under uncertainty <b>2013</b> ,		2



56	Integrating Flux Balance Analysis into Microalgae Growth Kinetics for Dynamic Simulation. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2013</b> , 46, 295-300		2
55	Model based fault tolerant control using the marginalized likelihood ratio test <b>2010</b> ,		2
54	Data-driven offset-free multilinear model predictive control using constrained differential dynamic programming. <i>Journal of Process Control</i> , <b>2021</b> , 107, 1-16	3.9	2
53	Computationally efficient dynamic simulation of cellular kinetics via explicit solution of flux balance analysis: xDFBA modelling and its biochemical process applications. <i>Chemical Engineering Research and Design</i> , <b>2016</b> , 113, 85-95	5.5	2
52	A two-way coupled CFD-DQMOM approach for long-term dynamic simulation of a fluidized bed reactor. <i>Korean Journal of Chemical Engineering</i> , <b>2021</b> , 38, 342-353	2.8	2
51	Multiobjective Optimal Design of a Lean NOx Trap and Urealess Selective Catalytic Reduction Aftertreatment System under a Control Algorithm. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 16772-16781	3.9	2
50	Optimization of compression ratio in closed-loop CO2 liquefaction process. <i>Korean Journal of Chemical Engineering</i> , <b>2018</b> , 35, 2150-2156	2.8	2
49	Dynamic optimization of cryogenic distillation operation for hydrogen isotope separation in fusion power plant. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 24135-24148	6.7	2
48	Successive complementary model-based experimental designs for parameter estimation of fed-batch bioreactors. <i>Bioprocess and Biosystems Engineering</i> , <b>2018</b> , 41, 1767-1777	3.7	1
47	Simulation and Optimization of an Integrated CO2 Capture and Storage System. <i>Computer Aided Chemical Engineering</i> , <b>2014</b> , 1753-1758	0.6	1
46	Optimal Design of HMX recrystallization process using supercritical carbon dioxide as antisolvent. <i>Computer Aided Chemical Engineering</i> , <b>2012</b> , 31, 135-139	0.6	1
45	Sample-based approaches to decision making problems under uncertainty. <i>Canadian Journal of Chemical Engineering</i> , <b>2012</b> , 90, 385-395	2.3	1
44	Dynamic Simulation and Optimization of Population Balance Model for Gas Anti-solvent Recrystallization Process. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2012</b> , 45, 245-249		1
43	On interfacing model predictive controllers with a real-time optimizer. <i>Computer Aided Chemical Engineering</i> , <b>2003</b> , 910-915	0.6	1
42	Simulation-Based Dual Mode Controller for Nonlinear Processes. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2004</b> , 37, 209-214		1
41	APPROXIMATE DYNAMIC PROGRAMMING STRATEGY FOR DUAL ADAPTIVE CONTROL. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2005</b> , 38, 459-464		1
40	Development of 3D CFD model of compact steam methane reforming process for standalone applications. <i>Korean Journal of Chemical Engineering</i> , 1	2.8	1
39	Simultaneous analysis of hydrogen productivity and thermal efficiency of hydrogen production process using steam reforming via integrated process design and 3D CFD modeling. <i>Chemical Engineering Research and Design</i> , <b>2022</b> , 178, 466-477	5.5	1

38	Modeling and stochastic dynamic optimization for optimal energy resource allocation. <i>Computer Aided Chemical Engineering</i> , <b>2012</b> , 31, 765-769	0.6	1
37	A Fault Magnitude-Based Strategy for Effective Fault Diagnosis and Isolation. <i>Journal of Chemical Engineering of Japan</i> , <b>2015</b> , 48, 44-51	0.8	1
36	Multirate moving horizon estimation combined with parameter subset selection. <i>Computers and Chemical Engineering</i> , <b>2021</b> , 147, 107253	4	1
35	Clustered Manifold Approximation and Projection for Semisupervised Fault Diagnosis and Process Monitoring. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2021</b> , 60, 9521-9531	3.9	1
34	Operational strategy of pre-cooling process of CO2 storage tank in CCS ship transportation using model-based optimization. <i>Chemical Engineering Research and Design</i> , <b>2016</b> , 109, 770-779	5.5	1
33	Reinforced Genetic Algorithm using Clustering based on Statistical Estimation. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 287-291	0.7	1
32	Modeling, simulation and structural analysis of a fluid catalytic cracking (FCC) process. <i>Korean Journal of Chemical Engineering</i> , <b>2018</b> , 35, 2327-2335	2.8	1
31	Application of Dividing Wall Column in Silane Off-Gas Recovery Process: Optimal Design and Control. <i>Journal of Chemical Engineering of Japan</i> , <b>2018</b> , 51, 253-263	0.8	1
30	Data-driven fault detection for chemical processes using autoencoder with data augmentation. <i>Korean Journal of Chemical Engineering</i> , 1	2.8	1
29	Real-time synchronization with expected distribution of synchronized index for on-line monitoring of uneven multiphase batch process. <i>Computers and Chemical Engineering</i> , <b>2021</b> , 154, 107490	4	1
28	Centralized and distributed hydrogen production using steam reforming: challenges and perspectives. <i>Sustainable Energy and Fuels</i> ,	5.8	1
27	Integration of reinforcement learning and model predictive control to optimize semi-batch bioreactor. <i>AIChE Journal</i> ,	3.6	1
26	Closed-loop Subspace Identification of Dual-rate Non-uniformly Sampled System under MPC with Zone Control. <i>International Journal of Control, Automation and Systems</i> , <b>2020</b> , 18, 2002-2011	2.9	0
25	Physics-informed deep learning for data-driven solutions of computational fluid dynamics. <i>Korean Journal of Chemical Engineering</i> , <b>2022</b> , 39, 515	2.8	0
24	Safety distance analysis to prevent pipeline chain accidents. <i>Korean Journal of Chemical Engineering</i> , 1	2.8	0
23	Idle speed control with low-complexity offset-free explicit model predictive control in presence of system delay. <i>Control Engineering Practice</i> , <b>2022</b> , 119, 104990	3.9	0
22	Design study of a cryogenic distillation column for hydrogen isotope separation system. <i>Fusion Engineering and Design</i> , <b>2021</b> , 172, 112736	1.7	0
21	Learning of model-plant mismatch map via neural network modeling and its application to offset-free model predictive control. <i>Journal of Process Control</i> , <b>2022</b> , 115, 112-122	3.9	0



20	Fundamental Modeling and Experimental Investigation of Polymer Washing Process. <i>IFAC-PapersOnLine</i> , <b>2016</b> , 49, 320-325	0.7
19	Optimization of Microalgal Bioreactor Oil Production via Run-to-run Control. <i>Computer Aided Chemical Engineering</i> , <b>2014</b> , 1759-1764	0.6
18	Design of Experiments and Sensitivity Analysis for Microalgal Bioreactor Systems. <i>Computer Aided Chemical Engineering</i> , <b>2012</b> , 722-726	0.6
17	Parameter Estimation for Physiologically Based Pharmacokinetics Model Using Bayesian Inference. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2013</b> , 46, 637-642	
16	Probabilistic Modelling and Stochastic Dynamic Optimization for Managing Abnormal Situations in Plant-Wide Operations. <i>Computer Aided Chemical Engineering</i> , <b>2009</b> , 1287-1292	0.6
15	Nonlinear dynamical analysis and optimization for biological/biomedical systems. <i>Methods in Enzymology</i> , <b>2009</b> , 467, 435-459	1.7
14	Sensitivity analysis with optimal input design and model predictive control for microalgal bioreactor systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2012</b> , 45, 673-678	
13	Parametric Approximation of Piecewise Quadratic Value Functions for the Control of Complex Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2008</b> , 41, 3252-3257	
12	Simulation-Based Design of Dual-Mode Controller for Non-Linear Processes. <i>Canadian Journal of Chemical Engineering</i> , <b>2008</b> , 85, 506-511	2.3
11	EMPIRICAL RESULTS ON CONVERGENCE AND EXPLORATION IN APPROXIMATE POLICY ITERATION. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2005</b> , 38, 544-549	
10	Droplet-Based Evaporative System for the Estimation of Protein Crystallization Kinetics. <i>Crystal Growth and Design</i> , <b>2021</b> , 21, 6064-6075	3.5
9	Training Simulator Using Virtual Reality For Postural Balance Rehabilitation. <i>Journal of Korean Society of Medical Informatics</i> , <b>1998</b> , 4, 123	
8	Nonlinear Modeling and Application of PI Control on Pre-cooling Session of a Carbon Dioxide Storage Tank at Normal Temperature and Pressure. <i>Korean Chemical Engineering Research</i> , <b>2014</b> , 52, 574-580	
7	Fundamental Modeling and Experimental Investigation of a Polymer Washing Batch Process. <i>Journal of Chemical Engineering of Japan</i> , <b>2016</b> , 49, 785-792	0.8
6	Optimal planning of energy management system under demand uncertainty. <i>Computer Aided Chemical Engineering</i> , <b>2012</b> , 30, 347-351	0.6
5	Modeling and Simulation of Ship Transport of CO <sub>2</sub> . <i>Computer Aided Chemical Engineering</i> , <b>2012</b> , 31, 785-789	
4	Bayesian Optimization of Semicontinuous Carbonation Process Operation Recipe. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2021</b> , 60, 9871-9884	3.9
3	A Sequential Method for Determining Optimal Stripper Pressure and Terminal Pressure in CO <sub>2</sub> Capture and Liquefaction Process Using MEA. <i>IFAC-PapersOnLine</i> , <b>2016</b> , 49, 657-662	0.7

- 2 Data-driven model predictive control design for offset-free tracking of nonlinear systems. *International Journal of Control*, 1-16 1.5
- 1 Online Synchronization in Latent Variable Model Predictive Control for Trajectory Tracking of an Uneven Batch Process. *Industrial & Engineering Chemistry Research*, **2022**, 61, 594-604 3.9