Masoud Soroush

List of Publications by Citations

166 papers	4,146 citations	35 h-index	57 g-index
178 ext. papers	4,888 ext. citations	4.3 avg, IF	5.94 L-index

#	Paper	IF	Citations
166	Model Predictive Control Tuning Methods: A Review. *Industrial & Engineering Chemistry Research*, **2010**, 49, 3505-3515	3.9	221
165	Mathematical modeling of solid oxide fuel cells: A review. *Renewable and Sustainable Energy Reviews*, **2011**, 15, 1893-1917	16.2	200
164	Nonlinear state-observer design with application to reactors. *Chemical Engineering Science*, **1997**, 52, 387-404	4.4	125
163	Nonlinear control of a batch polymerization reactor: An experimental study. *AICHE Journal*, **1992**, 38, 1429-1448	3.6	125
162	A method of sensor fault detection and identification. *Journal of Process Control*, **2005**, 15, 321-339	3.9	124
161	Mitigation of Thin-Film Composite Membrane Biofouling via Immobilizing Nano-Sized Biocidal Reservoirs in the Membrane Active Layer. *Environmental Science & Technology*, **2017**, 51, 5511-5522	10.3	117
160	State and parameter estimations and their applications in process control. *Computers and Chemical Engineering*, **1998**, 23, 229-245	4	113
159	Synthesis of multivariable nonlinear controllers by input/output linearization. *AICHE Journal*, **1990**, 36, 249-264	3.6	102
158	Feedforward/feedback control of multivariable nonlinear processes. *AICHE Journal*, **1990**, 36, 1471-1484	3.6	101
157	Exploiting Synergetic Effects of Graphene Oxide and a Silver-Based Metal-Organic Framework To Enhance Antifouling and Anti-Biofouling Properties of Thin-Film Nanocomposite Membranes. *ACS Applied Materials & Interfaces*, **2018**, 10, 42967-42978	9.5	101
156	Antimicrobial Mode-of-Action of Colloidal Ti3C2TxMXene Nanosheets. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 16586-16596	8.3	92
155	Mathematical Modeling, Steady-State and Dynamic Behavior, and Control of Fuel Cells: A Review *Industrial & Engineering Chemistry Research*, **2010**, 49, 7922-7950	3.9	73
154	High-Temperature Homopolymerization of Ethyl Acrylate and n-Butyl Acrylate: Polymer Characterization. *Macromolecules*, **2005**, 38, 7619-7628	5.5	73
153	Efficient CO2-removal using novel mixed-matrix membranes with modified TiO2 nanoparticles. *Journal of Materials Chemistry A*, **2017**, 5, 4011-4025	13	72
152	Enhancing performance and surface antifouling properties of polysulfone ultrafiltration membranes with salicylate-alumoxane nanoparticles. *Applied Surface Science*, **2017**, 393, 93-102	6.7	67
151	Simultaneous Improvement of Antimicrobial, Antifouling, and Transport Properties of Forward Osmosis Membranes with Immobilized Highly-Compatible Polyrhodanine Nanoparticles. *Environmental Science & Technology*, **2018**, 52, 5246-5258	10.3	66
150	A Novel Nanocomposite with Superior Antibacterial Activity: A Silver-Based Metal Organic Framework Embellished with Graphene Oxide. *Advanced Materials Interfaces*, **2018**, 5, 1701365	4.6	64

149	Surface Modification of a MXene by an Aminosilane Coupling Agent. *Advanced Materials Interfaces*, **2020**, 7, 1902008	4.6	62
148	Discrete-time nonlinear controller synthesis by input/output linearization. *AICHE Journal*, **1992**, 38, 1923-1945	3.6	60
147	Multirate nonlinear state estimation with application to a polymerization reactor. *AICHE Journal*, **1999**, 45, 769-780	3.6	59
146	Engineering Ultrathin Polyaniline in Micro/Mesoporous Carbon Supercapacitor Electrodes Using Oxidative Chemical Vapor Deposition. *Advanced Materials Interfaces*, **2017**, 4, 1601201	4.6	57
145	Optimal design and operation of batch reactors. 2. A case study. *Industrial & Engineering Chemistry Research*, **1993**, 32, 882-893	3.9	57
144	Improved performance and antifouling properties of thin-film composite polyamide membranes modified with nano-sized bactericidal graphene quantum dots for forward osmosis. *Chemical Engineering Research and Design*, **2018**, 139, 321-334	5.5	57
143	Probabilistic model for sensor fault detection and identification. *AICHE Journal*, **2003**, 49, 1787-1802	3.6	56
142	Dynamic risk analysis using alarm databases to improve process safety and product quality: Part IIBayesian analysis. *AICHE Journal*, **2012**, 58, 826-841	3.6	49
141	Multi-rate nonlinear state and parameter estimation in a bioreactor. *Biotechnology and Bioengineering*, **1999**, 63, 22-32	4.9	49
140	Multivariable nonlinear control of a continuous polymerization reactor: An experimental study. *AICHE Journal*, **1993**, 39, 1920-1937	3.6	48
139	Spontaneous polymerization and chain microstructure evolution in high-temperature solution polymerization of n-butyl acrylate. *Polymer*, **2006**, 47, 1423-1435	3.9	47
138	Facile Cu-BTC surface modification of thin chitosan film coated polyethersulfone membranes with improved antifouling properties for sustainable removal of manganese. *Journal of Membrane Science*, **2019**, 588, 117200	9.6	45
137	Pushing Rubbery Polymer Membranes To Be Economic for CO Separation: Embedment with TiCT MXene Nanosheets. *ACS Applied Materials & Interfaces*, **2020**, 12, 3984-3992	9.5	43
136	Optimal design and operation of batch reactors. 1. Theoretical framework. *Industrial & Engineering Chemistry Research*, **1993**, 32, 866-881	3.9	42
135	Self-initiation mechanism in spontaneous thermal polymerization of ethyl and n-butyl acrylate: a theoretical study. *Journal of Physical Chemistry A*, **2010**, 114, 7975-83	2.8	38
134	Process systems opportunities in power generation, storage and distribution. *Computers and Chemical Engineering*, **2013**, 51, 86-95	4	37
133	Strong acid equivalent control of pH processes: an experimental study. *Industrial & Engineering Chemistry Research*, **1991**, 30, 2437-2444	3.9	37
132	Engineering the dispersion of nanoparticles in polyurethane membranes to control membrane physical and transport properties. *Chemical Engineering Science*, **2018**, 192, 688-698	4.4	35

131	Dynamic risk analysis using alarm databases to improve process safety and product quality: Part IData compaction. *AICHE Journal*, **2012**, 58, 812-825	3.6	34
130	Incidents Investigation and Dynamic Analysis of Large Alarm Databases in Chemical Plants: A Fluidized-Catalytic-Cracking Unit Case Study *Industrial & Engineering Chemistry Research*, **2010**, 49, 8062-8079	3.9	34
129	Nonlinear State Estimation in a Polymerization Reactor. *Industrial & Engineering Chemistry Research*, **1997**, 36, 2679-2690	3.9	34
128	A continuous-time formulation of nonlinear model predictive control. *International Journal of Control*, **1996**, 63, 121-146	1.5	34
127	Computational evidence for self-initiation in spontaneous high-temperature polymerization of methyl methacrylate. *Journal of Physical Chemistry A*, **2011**, 115, 1125-32	2.8	33
126	MXene-Based Nanocomposite Sensors. *ACS Omega*, **2021**, 6, 11103-11112	3.9	33
125	Backbiting and scission reactions in free-radical polymerization of methyl acrylate. *International Journal of Quantum Chemistry*, **2014**, 114, 345-360	2.1	31
124	Dynamics and Control of a Tubular Solid-Oxide Fuel Cell. *Industrial & Engineering Chemistry Research*, **2009**, 48, 6112-6125	3.9	31
123	Computational study of the self-initiation mechanism in thermal polymerization of methyl acrylate. *Journal of Physical Chemistry A*, **2009**, 113, 10787-94	2.8	30
122	Nonlinear control of a polymerization CSTR with singular characteristic matrix. *AICHE Journal*, **1994**, 40, 980-990	3.6	29
121	Oxidative chemical vapor deposition of polyaniline thin films. *Beilstein Journal of Nanotechnology*, **2017**, 8, 1266-1276	3	28
120	Optimal directionality compensation in processes with input saturation non-linearities. *International Journal of Control*, **1999**, 72, 1555-1564	1.5	28
119	Computational study of chain transfer to monomer reactions in high-temperature polymerization of alkyl acrylates. *Journal of Physical Chemistry A*, **2013**, 117, 2605-18	2.8	27
118	Modeling spin-forbidden monomer self-initiation reactions in spontaneous free-radical polymerization of acrylates and methacrylates. *Journal of Physical Chemistry A*, **2014**, 118, 9310-8	2.8	26
117	Shortest-prediction-horizon non-linear model-predictive control. *Chemical Engineering Science*, **1998**, 53, 273-292	4.4	26
116	Ti3C2 MXenepolymer nanocomposites and their applications. *Journal of Materials Chemistry A*, **2021**, 9, 8051-8098	13	26
115	Theoretical and Experimental Study of a Dye-Sensitized Solar Cell. *Industrial & Engineering Chemistry Research*, **2014**, 53, 5234-5247	3.9	25
114	Analytical control of SISO nonlinear processes with input constraints. *AICHE Journal*, **1998**, 44, 116-130	3.6	25

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112	Tailoring the Biocidal Activity of Novel Silver-Based Metal Azolate Frameworks. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 7588-7599	8.3	23
111	Effects of polymer chemistry on polymer-electrolyte dye sensitized solar cell performance: A theoretical and experimental investigation. *Journal of Power Sources*, **2015**, 274, 156-164	8.9	22
110	Computational study of cyclohexanone-monomer co-initiation mechanism in thermal homo-polymerization of methyl acrylate and methyl methacrylate. *Journal of Physical Chemistry A*, **2012**, 116, 5337-48	2.8	22
109	Discrete-time nonlinear feedback control of multivariable processes. *AICHE Journal*, **1996**, 42, 187-203	3.6	21
108	Game theoretic approach to multiobjective designs: Focus on inherent safety. *AICHE Journal*, **2006**, 52, 228-246	3.6	20
107	Next generation polymers of intrinsic microporosity with tunable moieties for ultrahigh permeation and precise molecular CO2 separation. *Progress in Energy and Combustion Science*, **2021** , 84, 100903	33.6	20
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105	Rolling Pin Method: Efficient General Method of Joint Probability Modeling. *Industrial & Engineering Chemistry Research*, **2014**, 53, 20191-20203	3.9	19
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101	Influence of oCVD Polyaniline Film Chemistry in Carbon-Based Supercapacitors. *Industrial & Engineering Chemistry Research*, **2017**, 56, 6221-6228	3.9	17
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96	Adaptive Temperature Control of Multiproduct Jacketed Reactors. *Industrial & Engineering Chemistry Research*, **1999**, 38, 4337-4344	3.9	17

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92	Input-output linearizing nonlinear model predictive control. *International Journal of Control*, **1997**, 68, 1449-1474	1.5	16
91	Nonlinear State Estimation in the Presence of Multiple Steady States. *Industrial & Engineering Chemistry Research*, **1996**, 35, 2645-2659	3.9	16
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84	Applications of the Rolling Pin Method. 1. An Efficient Alternative to Bayesian Network Modeling and Inference. *Industrial & Engineering Chemistry Research*, **2015**, 54, 4316-4325	3.9	12
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73	Tuning Guidelines for Model-Predictive Control. *Industrial & Engineering Chemistry Research*, **2020**, 59, 4177-4191	3.9	10
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71	Model predictive controller tuning via eigenvalue placement **2008**,		9
70	Shortest-prediction-horizon non-linear model-predictive control with guaranteed asymptotic stability. *International Journal of Control*, **2007**, 80, 1533-1543	1.5	9
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61	Overview of Dye-Sensitized Solar Cells **2019**, 1-49		7
60	Polysulfone Membranes Incorporated with Reduced Graphene Oxide Nanoparticles for Enhanced Olefin/Paraffin Separation. *ChemistrySelect*, **2020**, 5, 3675-3681	1.8	7

59	Method of Moments Applied to Most-Likely High-Temperature Free-Radical Polymerization Reactions. *Processes*, **2019**, 7, 656	2.9	7
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57	Photochromic dye-sensitized solar cells. *AIMS Materials Science*, **2015**, 2, 503-509	1.9	7
56	Improving the Transport and Antifouling Properties of Poly(vinyl chloride) Hollow-Fiber Ultrafiltration Membranes by Incorporating Silica Nanoparticles. *ACS Omega*, **2018**, 3, 17439-17446	3.9	7
55	Gas Separation Polysulfone Membranes Modified by Cadmium-based Nanoparticles. *Fibers and Polymers*, **2018**, 19, 2049-2055	2	7
54	Modeling and Bifurcation Analysis of a Coionic Conducting Solid Oxide Fuel Cell. *Industrial & Engineering Chemistry Research*, **2013**, 52, 3165-3177	3.9	6
53	Improving Process Safety and Product Quality using Large Databases. *Computer Aided Chemical Engineering*, **2010**, 28, 175-180	0.6	6
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50	Suitability of N-propanoic acid spiropyrans and spirooxazines for use as sensitizing dyes in dye-sensitized solar cells. *Physical Chemistry Chemical Physics*, **2017**, 19, 2981-2989	3.6	5
49	Synthesis of discrete-time nonlinear feedforward/feedback controllers. *AICHE Journal*, **1994**, 40, 473-495	3.6	5
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46	First-principles modeling for optimal design, operation, and integration of energy conversion and storage systems. *AICHE Journal*, **2019**, 65, e16482	3.6	5
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35	Introduction to Dynamic Risk Analyses. *Methods in Chemical Process Safety*, **2017**, 1, 201-254	1.1	2
34	Multilinear-Model Predictive Control of a Tubular Solid Oxide Fuel Cell System. *Industrial & Engineering Chemistry Research*, **2012**, 121218163527007	3.9	2
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29	Model Predictive Control of Multivariable Nonlinear Processes in Continuous-Time **1993**,		2
28	Windup and Directionality Compensation in Nonlinear Model-Based Control **1998**, 173-208		2
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26	Insights Into Dye-Sensitized Solar Cells From Macroscopic-Scale First-Principles Mathematical Modeling **2019**, 83-119		1
25	Rebuttal to the Comment on Rolling Pin Method: Efficient General Method of Joint Probability Modeling *Industrial & Engineering Chemistry Research*, **2015**, 54, 2416-2417	3.9	1
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22	Control of a heat-integrated co-ionic-conducting solid oxide fuel cell system **2013**,		1
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3 Control System Selection: A Measure of Control Quality Loss in Analytical Control. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2004**, 37, 913-918

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