

David S H Wong

List of Publications by Year in descending order

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116
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116
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116
times ranked

3496
citing authors

#	ARTICLE	IF	CITATIONS
1	Machine Learning of Molecular Classification and Quantum Mechanical Calculations. Computer Aided Chemical Engineering, 2019, 46, 787-792.	0.5	9
2	Dynamic Profile Monitoring for Flooding Prognosis in Packed Columns. Chemical Engineering and Technology, 2019, 42, 1232-1239.	1.5	4
3	Investigation of hydrodynamic behavior in random packing using CFD simulation. Chemical Engineering Research and Design, 2019, 147, 43-54.	5.6	22
4	An Extended State Observer-Based Run to Run Control for Semiconductor Manufacturing Processes. IEEE Transactions on Semiconductor Manufacturing, 2019, 32, 154-162.	1.7	15
5	Design and Performance Comparison of Methanol Production Processes with Carbon Dioxide Utilization. Energies, 2019, 12, 4322.	3.1	7
6	Eliminating Steam Requirement of Aqueous Ammonia Capture Process by Lean Solution Flash and Vapor Recompression. Process Integration and Optimization for Sustainability, 2019, 3, 307-319.	2.6	4
7	Design and Control of a Novel Plant-Wide Process for Epichlorohydrin Synthesis by Reacting Allyl Chloride with Hydrogen Peroxide. Industrial & Engineering Chemistry Research, 2018, 57, 6926-6936.	3.7	9
8	Design and Control of a Reactive Distillation Process for Synthesizing Propylene Carbonate from Indirect Alcoholysis of Urea. IFAC-PapersOnLine, 2018, 51, 333-338.	0.9	1
9	Transfer learning for efficient meta-modeling of process simulations. Chemical Engineering Research and Design, 2018, 138, 546-553.	5.6	10
10	Plant-wide process design of producing dimethyl carbonate by indirect alcoholysis of urea. Computer Aided Chemical Engineering, 2018, 44, 115-120.	0.5	0
11	Interfacial reactions at the joints of CoSb ₃ -based thermoelectric devices. Journal of Alloys and Compounds, 2017, 699, 448-454.	5.5	15
12	Novel Process Design of Synthesizing Propylene Carbonate for Dimethyl Carbonate Production by Indirect Alcoholysis of Urea. Industrial & Engineering Chemistry Research, 2017, 56, 11531-11544.	3.7	32
13	Plant-wide design and control of C5 separation processes. , 2017, , .		0
14	Plant-wide design and control of an epichlorohydrin synthesis process by reacting allyl chloride and hydrogen peroxide. Computer Aided Chemical Engineering, 2017, 40, 1219-1224.	0.5	0
15	Shelf-Life Prediction of Nano-Sol via pH Acceleration. Journal of Quality Technology, 2017, 49, 46-63.	2.5	4
16	Modeling Amine Aerosol Growth in CO ₂ Capture Absorption Process. Computer Aided Chemical Engineering, 2017, 40, 511-516.	0.5	0
17	Developing a Soft Sensor with Online Variable Selection for Industrial Multi-mode Processes. Computer Aided Chemical Engineering, 2016, 38, 398-403.	0.5	2
18	Novel plant-wide process design of dichlorohydrin production by glycerol hydrochlorination. Computer Aided Chemical Engineering, 2016, 38, 637-642.	0.5	0

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19	Development of soft sensor with neural network and nonlinear variable selection for crude distillation unit process. <i>Computer Aided Chemical Engineering</i> , 2016, 38, 337-342.	0.5	3
20	Normalized Relative RBC-Based Minimum Risk Bayesian Decision Approach for Fault Diagnosis of Industrial Process. <i>IEEE Transactions on Industrial Electronics</i> , 2016, 63, 7723-7732.	7.9	50
21	Model-based feedforward register control of roll-to-roll web printing systems. <i>Control Engineering Practice</i> , 2016, 51, 58-68.	5.5	24
22	Effect of mass transfer on the design of an extractive distillation process for separating DMC and methanol. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 60, 205-212.	5.3	11
23	A comparison between packed beds and rotating packed beds for CO ₂ capture using monoethanolamine and dilute aqueous ammonia solutions. <i>International Journal of Greenhouse Gas Control</i> , 2016, 46, 228-239.	4.6	27
24	Sulfur dioxide removal from oxygen-rich exhausts by promoted decomposition. <i>Chemical Engineering Journal</i> , 2016, 284, 431-437.	12.7	6
25	Integrated statistical process control and engineering process control for a manufacturing process with multiple tools and multiple products. <i>Journal of Industrial and Production Engineering</i> , 2015, 32, 174-185.	3.1	1
26	Application of Vapor Recompression to Heterogeneous Azeotropic Dividing-Wall Distillation Columns. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 11592-11609.	3.7	45
27	Aspen Plus rate-based modeling for reconciling laboratory scale and pilot scale CO ₂ absorption using aqueous ammonia. <i>International Journal of Greenhouse Gas Control</i> , 2015, 34, 117-128.	4.6	28
28	Model predictive control for improving waste heat recovery in coke dry quenching processes. <i>Energy</i> , 2015, 80, 275-283.	8.8	41
29	A time series model coefficients monitoring approach for controlled processes. <i>Chemical Engineering Research and Design</i> , 2015, 100, 228-236.	5.6	12
30	Modelling accelerated degradation test and shelf-life prediction of dye-sensitized solar cells with different types of solvents. <i>Solar Energy</i> , 2015, 118, 600-610.	6.1	9
31	Intensification of C5 separation process by heat integration and thermal coupling. <i>Computer Aided Chemical Engineering</i> , 2015, 37, 1217-1222.	0.5	1
32	Simplification and Intensification of a C5 Separation Process. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 9798-9804.	3.7	20
33	Robust Predictions of Catalyst Deactivation of Atmospheric Residual Desulfurization. <i>Energy & Fuels</i> , 2015, 29, 7089-7100.	5.1	7
34	Layered Protonated Titanate Nanosheets Synthesized with a Simple One-Step, Low-Temperature, Urea-Modulated Method as an Effective Pollutant Adsorbent. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 16669-16678.	8.0	56
35	A two-tier approach to the data-driven modeling on thermal efficiency of a BFG/coal co-firing boiler. <i>Fuel</i> , 2013, 111, 528-534.	6.4	15
36	Soft-sensor development with adaptive variable selection using nonnegative garrote. <i>Control Engineering Practice</i> , 2013, 21, 1157-1164.	5.5	18

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37	Generation and verification of optimal dispatching policies for multi-product multi-tool semiconductor manufacturing processes. <i>Computers and Chemical Engineering</i> , 2013, 52, 112-121.	3.8	3
38	High-performance asymmetric supercapacitor consisting of Ni-Co-Cu oxy-hydroxide nanosheets and activated carbon. <i>Electrochemistry Communications</i> , 2013, 34, 323-326.	4.7	48
39	Dynamic Transcript Profiling of <i>Candida albicans</i> Infection in Zebrafish: A Pathogen-Host Interaction Study. <i>PLoS ONE</i> , 2013, 8, e72483.	2.5	25
40	Computer-aided Modeling and Optimization of Thermal Efficiency for Multi-fuel Boiler. <i>Computer Aided Chemical Engineering</i> , 2013, 32, 265-270.	0.5	2
41	An Adaptive-Tuning Scheme for G&P EWMA Run-to-Run Control. <i>IEEE Transactions on Semiconductor Manufacturing</i> , 2012, 25, 230-237.	1.7	5
42	Densities of a deep eutectic solvent based on choline chloride and glycerol and its aqueous mixtures at elevated pressures. <i>Fluid Phase Equilibria</i> , 2012, 335, 32-38.	2.5	113
43	An inferential modeling method using enumerative PLS based nonnegative garrote regression. <i>Journal of Process Control</i> , 2012, 22, 1637-1646.	3.3	16
44	Single-crystalline mesoporous ZnO nanosheets prepared with a green antisolvent method exhibiting excellent photocatalytic efficiencies. <i>CrystEngComm</i> , 2012, 14, 4732.	2.6	59
45	Deep Eutectic Solvent-based Ionic Liquid Electrolytes for Electrical Double-layer Capacitors. <i>Journal of the Chinese Chemical Society</i> , 2012, 59, 1280-1287.	1.4	40
46	Circumventing the Black-Hole Problem in Design and Control of Dividing-Wall Distillation Columns. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 14771-14792.	3.7	12
47	Control strategies for flexible operation of power plant with CO ₂ capture plant. <i>AIChE Journal</i> , 2012, 58, 2697-2704.	3.6	58
48	A Virtual Metrology System for Predicting End-of-Line Electrical Properties Using a MANCOVA Model With Tools Clustering. <i>IEEE Transactions on Industrial Informatics</i> , 2011, 7, 187-195.	11.3	25
49	Plantwide Control of CO ₂ Capture by Absorption and Stripping Using Monoethanolamine Solution. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 1338-1345.	3.7	84
50	Ultrafast formation of ZnO mesocrystals with excellent photocatalytic activities by a facile Tris-assisted antisolvent process. <i>CrystEngComm</i> , 2011, 13, 6218.	2.6	25
51	A MIMO R2R control using data-driven gain scheduling. <i>Control Engineering Practice</i> , 2011, 19, 1344-1353.	5.5	3
52	A priori predictions of critical loci from the combined use of PRSV equation of state and the COSMO-SAC model through the MHV1 mixing rule. <i>Fluid Phase Equilibria</i> , 2011, 308, 25-34.	2.5	2
53	Petri-net based scheduling strategy for semiconductor manufacturing processes. <i>Chemical Engineering Research and Design</i> , 2011, 89, 291-300.	5.6	15
54	A genetic algorithm-based boolean delay model of intracellular signal transduction in inflammation. <i>BMC Bioinformatics</i> , 2011, 12, S17.	2.6	9

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55	Stripe coating with a coffee-ring effect for color filter solutions. Journal of Applied Polymer Science, 2011, 120, 1555-1565.	2.6	6
56	A G&P EWMA algorithm for high-mix semiconductor manufacturing processes. Journal of Process Control, 2011, 21, 28-35.	3.3	15
57	A virtual metrology model based on recursive canonical variate analysis with applications to sputtering process. Journal of Process Control, 2011, 21, 830-839.	3.3	8
58	Computational modeling with forward and reverse engineering links signaling network and genomic regulatory responses: NF- κ B signaling-induced gene expression responses in inflammation. BMC Bioinformatics, 2010, 11, 308.	2.6	26
59	An EWMA Algorithm With a Cycled Resetting (CR) Discount Factor for Drift and Fault of High-Mix Run-to-Run Control. IEEE Transactions on Industrial Informatics, 2010, 6, 229-242.	11.3	18
60	Development of a Novel Soft Sensor Using a Local Model Network with an Adaptive Subtractive Clustering Approach. Industrial & Engineering Chemistry Research, 2010, 49, 4738-4747.	3.7	21
61	Growth of ZnO Nanostructures with Controllable Morphology Using a Facile Green Antisolvent Method. Journal of Physical Chemistry C, 2010, 114, 8867-8872.	3.1	97
62	Development of adaptive soft sensor based on statistical identification of key variables. Control Engineering Practice, 2009, 17, 1026-1034.	5.5	37
63	Identification of tool and product effects in a mixed product and parallel tool environment. Journal of Process Control, 2009, 19, 591-603.	3.3	27
64	Mixed product run-to-run process control – An ANOVA model with ARIMA disturbance approach. Journal of Process Control, 2009, 19, 604-614.	3.3	29
65	A novel deep eutectic solvent-based ionic liquid used as electrolyte for dye-sensitized solar cells. Electrochemistry Communications, 2009, 11, 209-211.	4.7	270
66	Effect of Water on Solubility of Carbon Dioxide in (Aminomethanamide +) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 Td (2-Hydroxy-<i>N</i> Engineering Data, 2009, 54, 1951-1955.	1.9	130
67	Threaded EWMA Controller Tuning and Performance Evaluation in a High-Mixed System. IEEE Transactions on Semiconductor Manufacturing, 2009, 22, 507-511.	1.7	8
68	Effect of Entrainer Loss on Plant-Wide Design and Control of an Isopropanol Dehydration Process. Industrial & Engineering Chemistry Research, 2008, 47, 6672-6684.	3.7	16
69	Performance Analysis of EWMA Controllers Subject to Metrology Delay. IEEE Transactions on Semiconductor Manufacturing, 2008, 21, 413-425.	1.7	34
70	A Feed-Forward/Feedback Run-to-Run Control of a Mixed Product Process: A Simulation and Experimental Studies. Industrial & Engineering Chemistry Research, 2007, 46, 6963-6970.	3.7	12
71	Diffusion coefficients and conductivities of alkylimidazolium tetrafluoroborates and hexafluorophosphates. Fluid Phase Equilibria, 2007, 252, 74-78.	2.5	48
72	Design and Control of Entrainer-Added Reactive Distillation for Fatty Ester Production. Industrial & Engineering Chemistry Research, 2006, 45, 9042-9049.	3.7	19

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73	Control of Transesterification Distillation for the Production of Methanol and n-Butyl Acetate. Journal of Chemical Engineering of Japan, 2006, 39, 340-350.	0.6	0
74	Calculation of critical lines of hydrocarbon/water systems by extrapolating mixing rules fitted to subcritical equilibrium data. Fluid Phase Equilibria, 2005, 227, 183-196.	2.5	9
75	Evaporation-Assisted Formation of Three-Dimensional Photonic Crystals. Journal of the American Ceramic Society, 2005, 88, 974-976.	3.8	11
76	Predictive Control of a Decentralized Supply Chain Unit. Industrial & Engineering Chemistry Research, 2005, 44, 9120-9128.	3.7	26
77	Solution of trim-loss problem by an integrated simulated annealing and ordinal optimization approach. Journal of Intelligent Manufacturing, 2004, 15, 701-709.	7.3	9
78	The effects of polymer additives on the operating windows of slot coating. Polymer Engineering and Science, 2004, 44, 1970-1976.	3.1	35
79	Controller design and reduction of bullwhip for a model supply chain system using z-transform analysis. Journal of Process Control, 2004, 14, 487-499.	3.3	91
80	Effect of interaction multiplicity on control system design for a MTBE reactive distillation column. Journal of Process Control, 2003, 13, 503-515.	3.3	42
81	Control of a Reactive Distillation Column in the Kinetic Regime for the Synthesis of n-Butyl Acetate. Industrial & Engineering Chemistry Research, 2003, 42, 5182-5194.	3.7	37
82	Determination of reactive wetting properties of Sn, Sn-Cu, Sn-Ag, and Sn-Pb alloys using a wetting balance technique. Journal of Materials Research, 2003, 18, 1420-1428.	2.6	34
83	Information directed sampling and ordinal optimization for combinatorial material synthesis and library design. Computer Aided Chemical Engineering, 2003, 15, 364-369.	0.5	3
84	Information Directed Sampling for Combinatorial Material Synthesis and Library Design. Journal of Chemical Engineering of Japan, 2003, 36, 1034-1044.	0.6	1
85	Process Monitoring Using a Distance-Based Adaptive Resonance Theory. Industrial & Engineering Chemistry Research, 2002, 41, 2465-2479.	3.7	3
86	Design Alternatives for the Amyl Acetate Process: A Coupled Reactor/Column and Reactive Distillation. Industrial & Engineering Chemistry Research, 2002, 41, 3233-3246.	3.7	62
87	Size Effects on Silica Polymorphism. Journal of the American Ceramic Society, 2002, 85, 2590-2592.	3.8	9
88	Experimental investigation of conventional control strategies for a heterogeneous azeotropic distillation column. Journal of Process Control, 2000, 10, 333-340.	3.3	25
89	Optimal Design of Filament Winding Using Neural Network Experimental Design Scheme. Journal of Composite Materials, 1999, 33, 2281-2300.	2.4	6
90	Experimental investigation of optimal conventional control strategy for a heterogeneous azeotropic distillation column. Computers and Chemical Engineering, 1999, 23, S249-S252.	3.8	0

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91	Homotopy continuation method for calculating critical loci of binary mixtures. Chemical Engineering Science, 1999, 54, 3873-3883.	3.8	15
92	Dynamics and Control of a Heterogeneous Azeotropic Distillation Column: A Conventional Control Approach. Industrial & Engineering Chemistry Research, 1999, 38, 468-478.	3.7	60
93	Product and process development using artificial neural-network model and information analysis. AIChE Journal, 1998, 44, 876-887.	3.6	43
94	Neural Network Correlations of Detonation Properties of High Energy Explosives. Propellants, Explosives, Pyrotechnics, 1998, 23, 296-300.	1.6	7
95	Critical Reflux, Parametric Sensitivity, and Hysteresis in Azeotropic Distillation of Isopropyl Alcohol + Water + Cyclohexane. Industrial & Engineering Chemistry Research, 1998, 37, 2835-2843.	3.7	35
96	Adsorption and Diffusion of Benzene in Activated Carbon at High Pressures. Industrial & Engineering Chemistry Research, 1997, 36, 5501-5506.	3.7	13
97	Adsorption and Desorption of Carbon Dioxide onto and from Activated Carbon at High Pressures. Industrial & Engineering Chemistry Research, 1997, 36, 2808-2815.	3.7	165
98	Rigorous implementation of continuous thermodynamics using orthonormal polynomials. Fluid Phase Equilibria, 1997, 129, 113-127.	2.5	8
99	Predictive control of quality in batch polymerization using hybrid ANN models. AIChE Journal, 1996, 42, 455-465.	3.6	90
100	Optimal multiloop feedback design using simulated annealing and neural network. AIChE Journal, 1995, 41, 430-434.	3.6	8
101	An equation of state mixing rule for correlating ternary liquid-liquid equilibria. Fluid Phase Equilibria, 1994, 98, 91-111.	2.5	3
102	Accurate equation of state predictions at high temperatures and pressures using the existing UNIFAC model. Fluid Phase Equilibria, 1993, 85, 41-54.	2.5	67
103	Correlation of steroid solubilities in supercritical carbon dioxide. Fluid Phase Equilibria, 1993, 83, 175-182.	2.5	8
104	Equation of state mixing rule for nonideal mixtures using available activity coefficient model parameters and that allows extrapolation over large ranges of temperature and pressure. Industrial & Engineering Chemistry Research, 1992, 31, 2033-2039.	3.7	174
105	Calculations of solubilities of aromatic compounds in supercritical carbon dioxide. Industrial & Engineering Chemistry Research, 1992, 31, 967-973.	3.7	51
106	On-line/off-line optimization of complex processes using a linguistic self-organized optimizing control scheme. Fuzzy Sets and Systems, 1992, 47, 23-33.	2.7	3
107	Optimal robust linear controller design for chemical processes using an extended regional mapping approach. Chemical Engineering Science, 1992, 47, 2057-2068.	3.8	0
108	A theoretically correct mixing rule for cubic equations of state. AIChE Journal, 1992, 38, 671-680.	3.6	947

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109	Thermodynamic model for the adsorption of toluene from supercritical carbon dioxide on activated carbon. <i>Industrial & Engineering Chemistry Research</i> , 1991, 30, 2492-2496.	3.7	18
110	Simulation of dynamics and phase pattern changes for an azeotropic distillation column. <i>Computers and Chemical Engineering</i> , 1991, 15, 325-335.	3.8	20
111	A cubic equation of state for predicting vapor-liquid equilibria of hydrocarbon mixtures using a group contribution mixing rule. <i>Fluid Phase Equilibria</i> , 1989, 46, 197-210.	2.5	11
112	Flexibility and optimality of distillation column design. <i>AIChE Journal</i> , 1988, 34, 144-146.	3.6	2
113	Vapor-liquid equilibrium calculations by use of generalized corresponding states principle. 2. Comparison with other methods. <i>Industrial & Engineering Chemistry Fundamentals</i> , 1984, 23, 45-49.	0.7	8
114	Calculation of vapor-liquid-liquid equilibrium with cubic equations of state and a corresponding states principle. <i>Industrial & Engineering Chemistry Fundamentals</i> , 1984, 23, 348-354.	0.7	7
115	Vapor-liquid equilibrium calculations by use of generalized corresponding states principle. 1. New mixing rules. <i>Industrial & Engineering Chemistry Fundamentals</i> , 1984, 23, 38-44.	0.7	28
116	Corresponding states, complex mixtures and mixture models. <i>Fluid Phase Equilibria</i> , 1983, 14, 79-90.	2.5	16