

Rafiqul Gani

List of Publications by Citations

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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.

482 papers	12,679 citations	60 h-index	97 g-index
522 ext. papers	13,912 ext. citations	2.8 avg, IF	6.89 L-index

#	Paper	IF	Citations
482	New group contribution method for estimating properties of pure compounds. <i>AIChE Journal</i> , 1994 , 40, 1697-1710	3.6	817
481	Group-contribution based estimation of pure component properties. <i>Fluid Phase Equilibria</i> , 2001 , 183-184, 183-208	2.5	781
480	Assessment of Recent Process Analytical Technology (PAT) Trends: A Multiauthor Review. <i>Organic Process Research and Development</i> , 2015 , 19, 3-62	3.9	251
479	Chemical product design: challenges and opportunities. <i>Computers and Chemical Engineering</i> , 2004 , 28, 2441-2457	4	240
478	A group contribution approach to computer-aided molecular design. <i>AIChE Journal</i> , 1991 , 37, 1318-1332	3.6	203
477	Estimation of the acentric factor and the liquid molar volume at 298 K using a new group contribution method. <i>Fluid Phase Equilibria</i> , 1995 , 103, 11-22	2.5	202
476	Computer aided molecular design: a novel method for optimal solvent selection. <i>Fluid Phase Equilibria</i> , 1993 , 82, 47-54	2.5	202
475	Group-contribution+ (GC+) based estimation of properties of pure components: Improved property estimation and uncertainty analysis. <i>Fluid Phase Equilibria</i> , 2012 , 321, 25-43	2.5	190
474	A multi-step and multi-level approach for computer aided molecular design. <i>Computers and Chemical Engineering</i> , 2000 , 24, 677-683	4	171
473	Design of environmentally benign processes: integration of solvent design and separation process synthesis. <i>Computers and Chemical Engineering</i> , 1999 , 23, 1395-1414	4	158
472	A novel framework for simultaneous separation process and product design. <i>Chemical Engineering and Processing: Process Intensification</i> , 2004 , 43, 595-608	3.7	154
471	Process intensification: A perspective on process synthesis. <i>Chemical Engineering and Processing: Process Intensification</i> , 2010 , 49, 547-558	3.7	150
470	A New Decomposition-Based Computer-Aided Molecular/Mixture Design Methodology for the Design of Optimal Solvents and Solvent Mixtures. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 4785-4797	3.9	150
469	Toward the Development and Deployment of Large-Scale Carbon Dioxide Capture and Conversion Processes. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 3383-3419	3.9	145
468	Separation process design and synthesis based on thermodynamic insights. <i>Chemical Engineering Science</i> , 1995 , 50, 511-530	4.4	143
467	Optimal design of a multi-product biorefinery system. <i>Computers and Chemical Engineering</i> , 2011 , 35, 1752-1766	4	130
466	A systematic synthesis framework for extractive distillation processes. <i>Chemical Engineering Research and Design</i> , 2008 , 86, 781-792	5.5	128

465	Correlation and prediction of thermal properties and phase behaviour for a class of aqueous electrolyte systems. <i>Chemical Engineering Science</i> , 1996 , 51, 3675-3683	4.4	128
464	A computer-aided molecular design framework for crystallization solvent design. <i>Chemical Engineering Science</i> , 2006 , 61, 1247-1260	4.4	124
463	Method for selection of solvents for promotion of organic reactions. <i>Computers and Chemical Engineering</i> , 2005 , 29, 1661-1676	4	124
462	Computer-aided molecular design with combined molecular modeling and group contribution. <i>Fluid Phase Equilibria</i> , 1999 , 158-160, 337-347	2.5	122
461	An integrated computer aided system for integrated design of chemical processes. <i>Computers and Chemical Engineering</i> , 1997 , 21, 1135-1146	4	116
460	Phenomena Based Methodology for Process Synthesis Incorporating Process Intensification. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 7127-7144	3.9	115
459	Are safe results obtained when the PC-SAFT equation of state is applied to ordinary pure chemicals?. <i>Fluid Phase Equilibria</i> , 2010 , 295, 76-92	2.5	109
458	Design of formulated products: A systematic methodology. <i>AIChE Journal</i> , 2011 , 57, 2431-2449	3.6	103
457	State-of-the-art and progress in the optimization-based simultaneous design and control for chemical processes. <i>AIChE Journal</i> , 2012 , 58, 1640-1659	3.6	98
456	Sustainable process synthesisIntensification. <i>Computers and Chemical Engineering</i> , 2015 , 81, 218-244	4	97
455	Design of sustainable chemical processes: Systematic retrofit analysis generation and evaluation of alternatives. <i>Chemical Engineering Research and Design</i> , 2008 , 86, 328-346	5.5	96
454	A strategy for the design and selection of solvents for separation processes.. <i>Fluid Phase Equilibria</i> , 1986 , 29, 125-132	2.5	96
453	SustainProA tool for systematic process analysis, generation and evaluation of sustainable design alternatives. <i>Computers and Chemical Engineering</i> , 2013 , 50, 8-27	4	89
452	Simultaneous design of ionic liquid entrainers and energy efficient azeotropic separation processes. <i>Computers and Chemical Engineering</i> , 2012 , 42, 248-262	4	88
451	A generic methodology for processing route synthesis and design based on superstructure optimization. <i>Computers and Chemical Engineering</i> , 2017 , 106, 892-910	4	87
450	Estimation of environment-related properties of chemicals for design of sustainable processes: development of group-contribution+ (GC+) property models and uncertainty analysis. <i>Journal of Chemical Information and Modeling</i> , 2012 , 52, 2823-39	6.1	86
449	Optimal design of microalgae-based biorefinery: Economics, opportunities and challenges. <i>Applied Energy</i> , 2015 , 150, 69-79	10.7	85
448	Biorefining: Computer aided tools for sustainable design and analysis of bioethanol production. <i>Chemical Engineering Research and Design</i> , 2009 , 87, 1171-1183	5.5	84

- 447 The calculation of thermodynamic properties of molecules. *Chemical Society Reviews*, **2010**, 39, 1764-79 58.5 79
- 446 Computer-Aided Methods and Tools for Chemical Product Design. *Chemical Engineering Research and Design*, **2004**, 82, 1494-1504 5.5 79
- 445 A model-based systems approach to pharmaceutical product-process design and analysis. *Chemical Engineering Science*, **2010**, 65, 5757-5769 4.4 76
- 444 Integration of life cycle assessment software with tools for economic and sustainability analyses and process simulation for sustainable process design. *Journal of Cleaner Production*, **2014**, 71, 98-109 10.3 75
- 443 Selection of Prediction Methods for Thermophysical Properties for Process Modeling and Product Design of Biodiesel Manufacturing. *Industrial & Engineering Chemistry Research*, **2011**, 50, 6809-6836 3.9 75
- 442 The interactions of design control and operability in reactive distillation systems. *Computers and Chemical Engineering*, **2002**, 26, 735-746 4 75
- 441 Ionic Liquid Design and Process Simulation for Decarbonization of Shale Gas. *Industrial & Engineering Chemistry Research*, **2016**, 55, 5931-5944 3.9 75
- 440 A computer-aided software-tool for sustainable process synthesis-intensification. *Computers and Chemical Engineering*, **2017**, 105, 74-95 4 73
- 439 Techno-economic evaluation of different CO₂-based processes for dimethyl carbonate production. *Chemical Engineering Research and Design*, **2015**, 93, 496-510 5.5 73
- 438 Prediction of heat capacities and heats of vaporization of organic liquids by group contribution methods. *Fluid Phase Equilibria*, **2009**, 283, 49-55 2.5 73
- 437 Reactive separation systems—Computation of physical and chemical equilibrium. *Chemical Engineering Science*, **1997**, 52, 527-543 4.4 73
- 436 Combined Group-Contribution and Atom Connectivity Index-Based Methods for Estimation of Surface Tension and Viscosity. *Industrial & Engineering Chemistry Research*, **2008**, 47, 7940-7954 3.9 71
- 435 Design and synthesis of distillation systems using a driving-force-based approach. *Chemical Engineering and Processing: Process Intensification*, **2004**, 43, 251-262 3.7 70
- 434 New Vistas in Chemical Product and Process Design. *Annual Review of Chemical and Biomolecular Engineering*, **2016**, 7, 557-82 8.9 70
- 433 Integrated business and engineering framework for synthesis and design of enterprise-wide processing networks. *Computers and Chemical Engineering*, **2012**, 38, 213-223 4 68
- 432 Group-Contribution-Based Estimation of Octanol/Water Partition Coefficient and Aqueous Solubility. *Industrial & Engineering Chemistry Research*, **2002**, 41, 6623-6633 3.9 68
- 431 Automatic Creation of Missing Groups through Connectivity Index for Pure-Component Property Prediction. *Industrial & Engineering Chemistry Research*, **2005**, 44, 7262-7269 3.9 67
- 430 Model-based computer-aided framework for design of process monitoring and analysis systems. *Computers and Chemical Engineering*, **2009**, 33, 22-42 4 66

429	Simple new algorithm for distillation column design. <i>AIChE Journal</i> , 2000 , 46, 1271-1274	3.6	66
428	Model-Based Calculation of Solid Solubility for Solvent Selection?A Review. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 5234-5242	3.9	65
427	Thermal pretreatment of the solid fraction of manure: impact on the biogas reactor performance and microbial community. <i>Water Science and Technology</i> , 2006 , 53, 59-67	2.2	65
426	Integration of process design and controller design for chemical processes using model-based methodology. <i>Computers and Chemical Engineering</i> , 2010 , 34, 683-699	4	63
425	Ionic liquids for absorption and separation of gases: An extensive database and a systematic screening method. <i>AIChE Journal</i> , 2017 , 63, 1353-1367	3.6	62
424	Estimation of the Enthalpy of Vaporization and the Entropy of Vaporization for Pure Organic Compounds at 298.15 K and at Normal Boiling Temperature by a Group Contribution Method. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 8436-8454	3.9	62
423	A comprehensive framework for surfactant selection and design for emulsion based chemical product design. <i>Fluid Phase Equilibria</i> , 2014 , 362, 288-299	2.5	60
422	Optimal processing pathway for the production of biodiesel from microalgal biomass: A superstructure based approach. <i>Computers and Chemical Engineering</i> , 2013 , 58, 305-314	4	60
421	Product design [Molecules, devices, functional products, and formulated products. <i>Computers and Chemical Engineering</i> , 2015 , 81, 70-79	4	59
420	Process synthesis, design and analysis using a process-group contribution method. <i>Computers and Chemical Engineering</i> , 2015 , 81, 245-259	4	56
419	A systematic methodology for design of tailor-made blended products. <i>Computers and Chemical Engineering</i> , 2014 , 66, 201-213	4	56
418	Active pharmaceutical ingredient (API) production involving continuous processes--a process system engineering (PSE)-assisted design framework. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2012 , 82, 437-56	5.7	55
417	Solvents in organic synthesis: Replacement and multi-step reaction systems. <i>Computers and Chemical Engineering</i> , 2008 , 32, 2420-2444	4	55
416	Applications of process synthesis: Moving from conventional chemical processes towards biorefinery processes. <i>Computers and Chemical Engineering</i> , 2013 , 49, 217-229	4	54
415	Generic mathematical programming formulation and solution for computer-aided molecular design. <i>Computers and Chemical Engineering</i> , 2015 , 78, 79-84	4	53
414	Group contribution based process flowsheet synthesis, design and modelling. <i>Fluid Phase Equilibria</i> , 2005 , 228-229, 141-146	2.5	48
413	A grand model for chemical product design. <i>Computers and Chemical Engineering</i> , 2016 , 91, 15-27	4	47
412	Estimation of Mixture Properties from First- and Second-Order Group Contributions with the UNIFAC Model. <i>Industrial & Engineering Chemistry Research</i> , 2002 , 41, 3260-3273	3.9	46

411	Modeling, simulation and optimization of membrane-based gas separation systems. <i>Chemical Engineering Science</i> , 1999 , 54, 943-955	4.4	45
410	A machine learning based computer-aided molecular design/screening methodology for fragrance molecules. <i>Computers and Chemical Engineering</i> , 2018 , 115, 295-308	4	44
409	A process synthesis-intensification framework for the development of sustainable membrane-based operations. <i>Chemical Engineering and Processing: Process Intensification</i> , 2014 , 86, 173-195	3.7	44
408	Simulation and optimization of fractional crystallization processes. <i>Chemical Engineering Science</i> , 1998 , 53, 1551-1564	4.4	44
407	The CAPEC Database. <i>Journal of Chemical & Engineering Data</i> , 2001 , 46, 1041-1044	2.8	43
406	A multi-layered view of chemical and biochemical engineering. <i>Chemical Engineering Research and Design</i> , 2020 , 155, A133-A145	5.5	43
405	Design of formulated products: Experimental component. <i>AIChE Journal</i> , 2012 , 58, 173-189	3.6	42
404	Modeling and analysis of vacuum membrane distillation for the recovery of volatile aroma compounds from black currant juice. <i>Journal of Membrane Science</i> , 2008 , 320, 442-455	9.6	42
403	Molecular structure based estimation of properties for process design. <i>Fluid Phase Equilibria</i> , 1996 , 116, 75-86	2.5	42
402	Prediction of vapor pressure and heats of vaporization of edible oil/fat compounds by group contribution. <i>Fluid Phase Equilibria</i> , 2013 , 337, 53-59	2.5	41
401	Graphical and stage-to-stage methods for reactive distillation column design. <i>AIChE Journal</i> , 2003 , 49, 2822-2841	3.6	41
400	Systematic integrated process design and control of binary element reactive distillation processes. <i>AIChE Journal</i> , 2016 , 62, 3137-3154	3.6	40
399	Application of COSMO-RS and UNIFAC for ionic liquids based gas separation. <i>Chemical Engineering Science</i> , 2018 , 192, 816-828	4.4	40
398	Thermodynamic Property Modeling for Chemical Process and Product Engineering: Some Perspectives. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 4619-4637	3.9	40
397	Blanket Wash Solvent Blend Design Using Interval Analysis. <i>Industrial & Engineering Chemistry Research</i> , 2003 , 42, 516-527	3.9	40
396	OptCAMD: An optimization-based framework and tool for molecular and mixture product design. <i>Computers and Chemical Engineering</i> , 2019 , 124, 285-301	4	40
395	A robust methodology for kinetic model parameter estimation for biocatalytic reactions. <i>Biotechnology Progress</i> , 2012 , 28, 1186-96	2.8	39
394	Optimal Solvent Design for Extractive Distillation Processes: A Multiobjective Optimization-Based Hierarchical Framework. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 5777-5786	3.9	38

393	Chameleonic behavior of ionic liquids and its impact on the estimation of solubility parameters. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 12879-88	3-4	38
392	ICAS-PAT: A software for design, analysis and validation of PAT systems. <i>Computers and Chemical Engineering</i> , 2010 , 34, 1108-1136	4	38
391	Integration of thermodynamic insights and MINLP optimization for the synthesis, design and analysis of process flowsheets. <i>Computers and Chemical Engineering</i> , 2001 , 25, 73-83	4	38
390	Process systems engineering – The generation next?. <i>Computers and Chemical Engineering</i> , 2021 , 147, 107252	4	38
389	Sustainable chemical processing and energy-carbon dioxide management: Review of challenges and opportunities. <i>Chemical Engineering Research and Design</i> , 2018 , 131, 440-464	5-5	37
388	Process systems engineering issues and applications towards reducing carbon dioxide emissions through conversion technologies. <i>Chemical Engineering Research and Design</i> , 2016 , 116, 27-47	5-5	37
387	A systematic framework for enterprise-wide optimization: Synthesis and design of processing networks under uncertainty. <i>Computers and Chemical Engineering</i> , 2013 , 59, 47-62	4	37
386	A systematic synthesis and design methodology to achieve process intensification in (bio) chemical processes. <i>Computers and Chemical Engineering</i> , 2012 , 36, 189-207	4	37
385	Simulation, design, and analysis of azeotropic distillation operations. <i>Industrial & Engineering Chemistry Research</i> , 1993 , 32, 620-633	3-9	37
384	Systematic network synthesis and design: Problem formulation, superstructure generation, data management and solution. <i>Computers and Chemical Engineering</i> , 2015 , 72, 68-86	4	36
383	Computer aided chemical product design – ProCAPD and tailor-made blended products. <i>Computers and Chemical Engineering</i> , 2018 , 116, 37-55	4	36
382	A general model for membrane-based separation processes. <i>Computers and Chemical Engineering</i> , 2009 , 33, 644-659	4	36
381	Deep learning and knowledge-based methods for computer-aided molecular design – Toward a unified approach: State-of-the-art and future directions. <i>Computers and Chemical Engineering</i> , 2020 , 141, 107005	4	35
380	Are safe results obtained when SAFT equations are applied to ordinary chemicals? Part 2: Study of solid-liquid equilibria in binary systems. <i>Fluid Phase Equilibria</i> , 2012 , 318, 61-76	2-5	35
379	An ontological knowledge-based system for the selection of process monitoring and analysis tools. <i>Computers and Chemical Engineering</i> , 2010 , 34, 1137-1154	4	35
378	Mathematical and numerical analysis of classes of property models. <i>Fluid Phase Equilibria</i> , 2006 , 250, 1-32	2-5	35
377	Screening for profitable retrofit options of chemical processes: A new method. <i>AIChE Journal</i> , 2003 , 49, 2400-2418	3-6	35
376	Multiplicity in numerical solution of non-linear models: Separation processes. <i>Computers and Chemical Engineering</i> , 1994 , 18, S55-S61	4	35

375	Chemical product design Recent advances and perspectives. <i>Current Opinion in Chemical Engineering</i> , 2020 , 27, 22-34	5-4	35
374	Group contribution-based property estimation methods: advances and perspectives. <i>Current Opinion in Chemical Engineering</i> , 2019 , 23, 184-196	5-4	34
373	A methodological framework for the development of feasible CO ₂ conversion processes. <i>International Journal of Greenhouse Gas Control</i> , 2016 , 47, 250-265	4-2	34
372	A method to estimate the enthalpy of formation of organic compounds with chemical accuracy. <i>Fluid Phase Equilibria</i> , 2013 , 348, 23-32	2-5	34
371	Properties and CAPE: from present uses to future challenges. <i>Computers and Chemical Engineering</i> , 2001 , 25, 3-14	4	34
370	Systematic integrated process design and control of reactive distillation processes involving multi-elements. <i>Chemical Engineering Research and Design</i> , 2016 , 115, 348-364	5-5	34
369	Computer-aided polymer design using group contribution plus property models. <i>Computers and Chemical Engineering</i> , 2009 , 33, 1004-1013	4	33
368	A methodology for the sustainable design and implementation strategy of CO ₂ utilization processes. <i>Computers and Chemical Engineering</i> , 2016 , 91, 407-421	4	32
367	Modeling of the Critical Micelle Concentration (CMC) of Nonionic Surfactants with an Extended Group-Contribution Method. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 12236-12246	3-9	32
366	Prediction of acid dissociation constants of organic compounds using group contribution methods. <i>Chemical Engineering Science</i> , 2018 , 183, 95-105	4-4	31
365	Integration of design and control through model analysis. <i>Computers and Chemical Engineering</i> , 2002 , 26, 213-225	4	31
364	Integration of the biorefinery concept for the development of sustainable processes for pulp and paper industry. <i>Computers and Chemical Engineering</i> , 2018 , 119, 70-84	4	31
363	Molecular structure-based methods of property prediction in application to lipids: A review and refinement. <i>Fluid Phase Equilibria</i> , 2013 , 357, 2-18	2-5	30
362	A model-based methodology for simultaneous design and control of a bioethanol production process. <i>Computers and Chemical Engineering</i> , 2010 , 34, 2043-2061	4	30
361	Systematic Selection of Green Solvents for Organic Reacting Systems. <i>Chinese Journal of Chemical Engineering</i> , 2008 , 16, 376-383	3-2	30
360	Estimation of physical properties of amino acids by group-contribution method. <i>Chemical Engineering Science</i> , 2018 , 175, 148-161	4-4	28
359	Lipid technology: Property prediction and process design/analysis in the edible oil and biodiesel industries. <i>Fluid Phase Equilibria</i> , 2011 , 302, 284-293	2-5	28
358	Design of batch operations: Systematic methodology for generation and analysis of sustainable alternatives. <i>Computers and Chemical Engineering</i> , 2009 , 33, 2075-2090	4	28

357	Advances in chemical product design. <i>Reviews in Chemical Engineering</i> , 2018 , 34, 319-340	5	27
356	Solvent selection methodology for pharmaceutical processes: Solvent swap. <i>Chemical Engineering Research and Design</i> , 2016 , 115, 443-461	5.5	27
355	Integrated ionic liquid and process design involving azeotropic separation processes. <i>Chemical Engineering Science</i> , 2019 , 203, 402-414	4.4	25
354	Computer-aided Framework for Design of Pure, Mixed and Blended Products. <i>Computer Aided Chemical Engineering</i> , 2015 , 37, 2093-2098	0.6	25
353	Systematic methods and tools for design of sustainable chemical processes for CO ₂ utilization. <i>Computers and Chemical Engineering</i> , 2016 , 87, 125-144	4	25
352	Industrial Process Water Treatment and Reuse: A Framework for Synthesis and Design. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 5160-5171	3.9	25
351	ThermoData Engine (TDE): software implementation of the dynamic data evaluation concept. 8. Properties of material streams and solvent design. <i>Journal of Chemical Information and Modeling</i> , 2013 , 53, 249-66	6.1	25
350	Property modelling and simulation for product and process design. <i>Fluid Phase Equilibria</i> , 2002 , 194-197, 43-59	2.5	25
349	Model Prediction of Supercritical Fluid-Liquid Equilibria for Carbon Dioxide and Fish Oil Related Compounds. <i>Industrial & Engineering Chemistry Research</i> , 1995 , 34, 2473-2484	3.9	25
348	Computer-aided process intensification: Challenges, trends and opportunities. <i>AIChE Journal</i> , 2020 , 66, e16819	3.6	24
347	Systematic screening methodology and energy efficient design of ionic liquid-based separation processes. <i>Journal of Cleaner Production</i> , 2016 , 111, 93-107	10.3	23
346	Sustainable process design & analysis of hybrid separations. <i>Computers and Chemical Engineering</i> , 2017 , 105, 96-104	4	23
345	Computer-aided reaction solvent design based on transition state theory and COSMO-SAC. <i>Chemical Engineering Science</i> , 2019 , 202, 300-317	4.4	23
344	Chemical product design: Advances in and proposed directions for research and teaching. <i>Computers and Chemical Engineering</i> , 2019 , 126, 147-156	4	23
343	Computer-aided modelling template: Concept and application. <i>Computers and Chemical Engineering</i> , 2015 , 83, 232-247	4	23
342	A combined heuristic and indicator-based methodology for design of sustainable chemical process plants. <i>Computers and Chemical Engineering</i> , 2011 , 35, 1343-1358	4	23
341	A Hybrid Modelling Approach for Separation Systems Involving Distillation. <i>Chemical Engineering Research and Design</i> , 1999 , 77, 519-534	5.5	23
340	Modelling for dynamic simulation of chemical processes: the index problem. <i>Chemical Engineering Science</i> , 1992 , 47, 1311-1315	4.4	23

- 339 A knowledge based system for the selection of thermodynamic models. *Computers and Chemical Engineering*, **1989**, 13, 397-404 4 23
- 338 Data, analysis and modeling of physical properties for process design of systems involving lipids. *Fluid Phase Equilibria*, **2014**, 362, 318-327 2.5 22
- 337 Analysis and prediction of the alpha-function parameters used in cubic equations of state. *Chemical Engineering Science*, **2015**, 126, 584-603 4.4 22
- 336 Systematic Sustainable Process Design and Analysis of Biodiesel Processes. *Processes*, **2013**, 1, 167-202 2.9 22
- 335 An experimental verification of morphology of ibuprofen crystals from CAMD designed solvent. *Chemical Engineering Science*, **2007**, 62, 3276-3281 4.4 22
- 334 Towards the development of a second-order approximation in activity coefficient models based on group contributions. *Fluid Phase Equilibria*, **1996**, 118, 1-12 2.5 22
- 333 Designing a Surrogate Fuel for Gas-to-Liquid Derived Diesel. *Energy & Fuels*, **2017**, 31, 11266-11279 4.1 21
- 332 Computer-Aided Modeling Framework for Efficient Model Development, Analysis, and Identification: Combustion and Reactor Modeling. *Industrial & Engineering Chemistry Research*, **2011**, 50, 5253-5265 3.9 21
- 331 Design and analysis of chemical processes through DYN-SIM. *Industrial & Engineering Chemistry Research*, **1992**, 31, 244-254 3.9 21
- 330 Industrial wastewater treatment network based on recycling and rerouting strategies for retrofit design schemes. *Journal of Cleaner Production*, **2016**, 111, 231-252 10.3 20
- 329 The virtual Product-Process Design laboratory to manage the complexity in the verification of formulated products. *Fluid Phase Equilibria*, **2011**, 302, 294-304 2.5 20
- 328 A generic multi-dimensional model-based system for batch cooling crystallization processes. *Computers and Chemical Engineering*, **2011**, 35, 828-843 4 20
- 327 A New Retrofit Design Methodology for Identifying, Developing, and Evaluating Retrofit Projects for Cost-Efficiency Improvements in Continuous Chemical Processes. *Industrial & Engineering Chemistry Research*, **2005**, 44, 1842-1853 3.9 20
- 326 Analysis of infinite dilution activity coefficients of solutes in hydrocarbons from UNIFAC. *Fluid Phase Equilibria*, **2001**, 181, 163-186 2.5 20
- 325 Integrated Process Design and Control of Reactive Distillation Processes. *IFAC-PapersOnLine*, **2015**, 48, 1120-1125 0.7 19
- 324 A Computer-Aided Methodology for Mixture-Blend Design. Applications to Tailor-Made Design of Surrogate Fuels. *Industrial & Engineering Chemistry Research*, **2018**, 57, 7008-7020 3.9 19
- 323 A computer-aided framework for development, identification and management of physiologically-based pharmacokinetic models. *Computers and Chemical Engineering*, **2014**, 71, 677-698 4 19
- 322 Multiple steady states detection in a packed-bed reactive distillation column using bifurcation analysis. *Computers and Chemical Engineering*, **2010**, 34, 460-466 4 19

3 ²¹	An integrated computer-aided system for generation and evaluation of sustainable process alternatives. <i>Clean Technologies and Environmental Policy</i> , 2003 , 5, 209-225	4.3	19
3 ²⁰	Predictive property models for use in design of controlled release of pesticides. <i>Fluid Phase Equilibria</i> , 2005 , 228-229, 127-133	2.5	19
3 ¹⁹	Structure optimization of tailored ionic liquids and process simulation for shale gas separation. <i>AIChE Journal</i> , 2020 , 66, e16794	3.6	19
3 ¹⁸	Vapour liquid equilibria of monocaprylin plus palmitic acid or methyl stearate at P = (1.20 and 2.50) kPa by using DSC technique. <i>Journal of Chemical Thermodynamics</i> , 2015 , 91, 108-115	2.9	18
3 ¹⁷	A method for prediction of UNIFAC group interaction parameters. <i>AIChE Journal</i> , 2007 , 53, 1620-1632	3.6	18
3 ¹⁶	Determination of optimal energy efficient separation schemes based on driving forces. <i>Computers and Chemical Engineering</i> , 2000 , 24, 253-259	4	18
3 ¹⁵	A computer aided modeling system. <i>Computers and Chemical Engineering</i> , 1999 , 23, S673-S678	4	18
3 ¹⁴	Comparative Economic Analysis of Physical, Chemical, and Hybrid Absorption Processes for Carbon Capture. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 2005-2012	3.9	17
3 ¹³	Methodology for design and analysis of reactive distillation involving multielement systems. <i>Chemical Engineering Research and Design</i> , 2011 , 89, 1295-1307	5.5	17
3 ¹²	Computer aided design, analysis and experimental investigation of membrane assisted batch reaction-separation systems. <i>Computers and Chemical Engineering</i> , 2009 , 33, 551-574	4	17
3 ¹¹	An Efficient Initialization Procedure for Simulation and Optimization of Large Distillation Problems. <i>Industrial & Engineering Chemistry Research</i> , 1997 , 36, 4291-4298	3.9	17
3 ¹⁰	Polymer property modeling using grid technology for design of structured products. <i>Fluid Phase Equilibria</i> , 2007 , 261, 58-63	2.5	17
3 ⁰⁹	Model-based computer-aided design for controlled release of pesticides. <i>Computers and Chemical Engineering</i> , 2005 , 30, 28-41	4	17
3 ⁰⁸	Property Integration—A New Approach for Simultaneous Solution of Process and Molecular Design Problems. <i>Computer Aided Chemical Engineering</i> , 2002 , 79-84	0.6	17
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3 ⁰⁶	Computer-aided design of ionic liquids for hybrid process schemes. <i>Computers and Chemical Engineering</i> , 2019 , 130, 106556	4	16
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