Sohrab Rohani

List of Publications by Year
in descending order

183	7,616	50276	66911
papers	citations	46 h-index	78 g-index

184	184	184	9015
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Graphitic C3N4 based noble-metal-free photocatalyst systems: A review. Applied Catalysis B: Environmental, 2017, 206, 556-588.	20.2	575
2	Modified TiO2 nanotube arrays (TNTAs): progressive strategies towards visible light responsive photoanode, a review. Energy and Environmental Science, 2011, 4, 1065.	30.8	265
3	Conversion of coal fly ash to zeolite utilizing microwave and ultrasound energies: A review. Fuel, 2015, 140, 250-266.	6.4	235
4	Effect of duty cycle and applied current frequency on plasma electrolytic oxidation (PEO) coating growth behavior. Surface and Coatings Technology, 2013, 226, 100-107.	4.8	217
5	CO2 mineral carbonation using industrial solid wastes: A review of recent developments. Chemical Engineering Journal, 2021, 416, 129093.	12.7	198
6	Curcumin, a promising anti-cancer therapeutic: a review of its chemical properties, bioactivity and approaches to cancer cell delivery. RSC Advances, 2014, 4, 10815.	3.6	193
7	Carbon dioxide capturing technologies: a review focusing on metal organic framework materials (MOFs). Environmental Science and Pollution Research, 2014, 21, 5427-5449.	5.3	171
8	A novel method to prepare superhydrophobic, UV resistance and anti-corrosion steel surface. Chemical Engineering Journal, 2012, 210, 182-187.	12.7	170
9	Polymorphism and Crystallization of Active Pharmaceutical Ingredients (APIs). Current Medicinal Chemistry, 2009, 16, 884-905.	2.4	166
10	Fe 3 O 4 @SiO 2 @CS-TETA functionalized graphene oxide for the adsorption of methylene blue (MB) and Cu(II). Applied Surface Science, 2017, 420, 970-981.	6.1	147
11	Rapid and efficient crystallization of MIL-53(Fe) by ultrasound and microwave irradiation. Microporous and Mesoporous Materials, 2012, 162, 36-43.	4.4	141
12	Lipid extraction and biodiesel production from municipal sewage sludges: A review. Renewable and Sustainable Energy Reviews, 2011, 15, 1067-1072.	16.4	137
13	Phase transformation in plasma electrolytic oxidation coatings on 6061 aluminum alloy. Surface and Coatings Technology, 2014, 251, 106-114.	4.8	124
14	Self-assembled amphiphilic zein-lactoferrin micelles for tumor targeted co-delivery of rapamycin and wogonin to breast cancer. European Journal of Pharmaceutics and Biopharmaceutics, 2018, 128, 156-169.	4.3	124
15	MIL-53(Fe), MIL-101, and SBA-15 porous materials: Potential platforms for drug delivery. Materials Science and Engineering C, 2015, 47, 172-179.	7.3	115
16	Preparation and Characterization of Theophyllineâ˜Nicotinamide Cocrystal. Organic Process Research and Development, 2009, 13, 1269-1275.	2.7	111
17	A novel combined manufacturing technique for rapid production of IRMOF-1 using ultrasound and microwave energies. Chemical Engineering Journal, 2010, 165, 966-973.	12.7	108
18	Treatment of landfill waste, leachate and landfill gas: A review. Frontiers of Chemical Science and Engineering, 2015, 9, 15-32.	4.4	100

#	Article	IF	Citations
19	Multi-objective optimization of seeded batch crystallization processes. Chemical Engineering Science, 2006, 61, 5282-5295.	3.8	99
20	Corrosion properties of plasma electrolytic oxidation coatings on an aluminium alloy â€“ The effect of the PEO process stage. Materials Chemistry and Physics, 2015, 161, 49-58.	4.0	96
21	A low-cost adsorbent from coal fly ash for mercury removal from industrial wastewater. Journal of Environmental Chemical Engineering, 2017, 5, 391-399.	6.7	90
22	Synthesis of zeolite Na-P from coal fly ash by thermo-sonochemical treatment. Fuel, 2016, 182, 494-501.	6.4	88
23	Application of zeolites in aquaculture industry: a review. Reviews in Aquaculture, 2018, 10, 75-95.	9.0	83
24	A comparative study on metal organic frameworks for indoor environment application: Adsorption evaluation. Chemical Engineering Journal, 2017, 313, 711-723.	12.7	79
25	Recent advances in electrospun nanofibers for some biomedical applications. European Journal of Pharmaceutical Sciences, 2020, 144, 105224.	4.0	75
26	Correlation between plasma electrolytic oxidation treatment stages and coating microstructure on aluminum under unipolar pulsed DC mode. Surface and Coatings Technology, 2015, 269, 91-99.	4.8	74
27	Fabrication of xanthate-modified chitosan/poly(N-isopropylacrylamide) composite hydrogel for the selective adsorption of Cu(II), Pb(II) and Ni(II) metal ions. Chemical Engineering Research and Design, 2018, 139, 197-210.	5.6	71
28	Crystal Population Balance Formulation and Solution Methods: A Review. Crystal Growth and Design, 2017, 17, 4028-4041.	3.0	68
29	A novel PVDF/PFSA-g-GO ultrafiltration membrane with enhanced permeation and antifouling performances. Separation and Purification Technology, 2020, 233, 116038.	7.9	66
30	Low-temperature methanol dehydration to dimethyl ether over various small-pore zeolites. Applied Catalysis B: Environmental, 2017, 217, 247-255.	20.2	65
31	Cooling and seeding effect on supersaturation and final crystal size distribution (CSD) of ammonium sulphate in a batch crystallizer. Chemical Engineering and Processing: Process Intensification, 2005, 44, 949-957.	3.6	64
32	Carbon dioxide adsorption in microwave-synthesized metal organic framework CPM-5: Equilibrium and kinetics study. Microporous and Mesoporous Materials, 2013, 175, 85-91.	4.4	64
33	Experimental analysis of lipid extraction and biodiesel production from wastewater sludge. Fuel Processing Technology, 2011, 92, 2241-2251.	7.2	61
34	Synthesis and Preliminary Characterization of Sulfamethazine-Theophylline Co-Crystal. Journal of Pharmaceutical Sciences, 2010, 99, 4042-4047.	3.3	59
35	Preparation of multiple-doped TiO2 nanotube arrays with nitrogen, carbon and nickel with enhanced visible light photoelectrochemical activity via single-step anodization. International Journal of Hydrogen Energy, 2015, 40, 12239-12252.	7.1	59
36	Image Analysis for In-line Measurement of Multidimensional Size, Shape, and Polymorphic Transformation of <scp>l</scp>-Glutamic Acid Using Deep Learning-Based Image Segmentation and Classification. Crystal Growth and Design, 2018, 18, 4275-4281.	3.0	59

#	Article	IF	Citations
37	Photocatalytic activities of Pt/ZIF-8 loaded highly ordered TiO2 nanotubes. Journal of Materials Chemistry, 2010, 20, 10241.	6.7	58
38	Effects of nano-structured CoMo catalysts on hydrodeoxygenation of fast pyrolysis oil in supercritical ethanol. Catalysis Today, 2016, 269, 182-194.	4.4	58
39	Experimental study of the GAS process for producing microparticles of beclomethasone-17,21-dipropionate suitable for pulmonary delivery. International Journal of Pharmaceutics, 2006, 309, 71-80.	5.2	56
40	High temperature synthesis of SAPO-34: Applying an L9 Taguchi orthogonal design to investigate the effects of experimental parameters. Powder Technology, 2012, 217, 223-230.	4.2	56
41	An approach to solvent screening for crystallization of polymorphic pharmaceuticals and fine chemicals. Journal of Pharmaceutical Sciences, 2005, 94, 1560-1576.	3.3	55
42	FCC unit modeling, identification and model predictive control, a simulation study. Chemical Engineering and Processing: Process Intensification, 2003, 42, 311-325.	3.6	53
43	Hydrodeoxygenation of fast pyrolysis oil with novel activated carbon-supported NiP and CoP catalysts. Chemical Engineering Science, 2018, 178, 248-259.	3.8	53
44	Microwave Synthesis of the CPMâ€5 Metal Organic Framework. Chemical Engineering and Technology, 2012, 35, 1085-1092.	1.5	51
45	Cocrystals of Acyclovir with Promising Physicochemical Properties. Journal of Pharmaceutical Sciences, 2015, 104, 98-105.	3.3	51
46	Solubility Prediction of Pharmaceutical and Chemical Compounds in Pure and Mixed Solvents Using Predictive Models. Industrial & Engineering Chemistry Research, 2012, 51, 464-473.	3.7	49
47	Transparent nanostructured coatings with UV-shielding and superhydrophobicity properties. Nanotechnology, 2011, 22, 265708.	2.6	47
48	Using Coal Fly Ash and Wastewater for Microwave Synthesis of LTA Zeolite. Chemical Engineering and Technology, 2014, 37, 1532-1540.	1.5	47
49	Magnetically Guided Self-Assembled Protein Micelles for Enhanced Delivery of Dasatinib to Human Triple-Negative Breast Cancer Cells. Journal of Pharmaceutical Sciences, 2019, 108, 1713-1725.	3.3	47
50	Co-amorphous Form of Curcuminâ€“Folic Acid Dihydrate with Increased Dissolution Rate. Crystal Growth and Design, 2017, 17, 6273-6280.	3.0	45
51	A comparative study using direct hydrothermal and indirect fusion methods to produce zeolites from coal fly ash utilizing single-mode microwave energy. Journal of Materials Science, 2014, 49, 8261-8271.	3.7	44
52	Developing a zero liquid discharge process for zeolitization of coal fly ash to synthetic NaP zeolite. Fuel, 2016, 171, 195-202.	6.4	41
53	Thermodynamic modeling of activity coefficient and prediction of solubility: Part 2. Semipredictive or semiempirical models. Journal of Pharmaceutical Sciences, 2006, 95, 798-809.	3.3	39
54	Crystallization of an active pharmaceutical ingredient that oils out. Separation and Purification Technology, 2012, 96, 1-6.	7.9	39

#	Article	IF	Citations
55	High performance NiS-nanoparticles sensitized TiO2 nanotube arrays for water reduction. International Journal of Hydrogen Energy, 2016, 41, 5887-5901.	7.1	39
56	Combined synthesis of Li4SiO4 sorbent with high CO2 uptake in the indirect carbonation of blast furnace slag process. Chemical Engineering Journal, 2019, 370, 71-80.	12.7	39
57	Multiobjective optimization of semibatch reactive crystallization processes. AICHE Journal, 2007, 53, 1164-1177.	3.6	38
58	Rapid high-temperature synthesis of SAPO-34 nanoparticles. Particuology, 2011, 9, 452-457.	3.6	38
59	Study on the Oiling-out and Crystallization for the Purification of Idebenone. Organic Process Research and Development, 2012, 16, 442-446.	2.7	38
60	Biodiesel production using cesium modified mesoporous ordered silica as heterogeneous base catalyst. Fuel, 2013, 103, 719-724.	6.4	38
61	Optimization of Congo red dye adsorption from wastewater by a modified commercial zeolite catalyst using response surface modeling approach. Water Science and Technology, 2021, 83, 1369-1383.	2.5	38
62	Control of fines suspension density in the fines loop of a continuous KCl crystallizer using transmittance measurement and an FBRMÂ® probe. Canadian Journal of Chemical Engineering, 2000, 78, 663-673.	1.7	37
63	Sonochemical synthesis of zeolite NaP from clinoptilolite. Ultrasonics Sonochemistry, 2016, 28, 400-408.	8.2	37
64	Effect of ultrasound energy on the zeolitization of chemical extracts from fused coal fly ash. Ultrasonics Sonochemistry, 2016, 28, 47-53.	8.2	36
65	Control of crystal size distribution in a batch cooling crystallizer. Canadian Journal of Chemical Engineering, 1990, 68, 260-267.	1.7	35
66	Efficient light harvesting by NiS/CdS/ZnS NPs incorporated in C, N-co-doped-TiO 2 nanotube arrays as visible-light sensitive multilayer photoanode for solar applications. International Journal of Hydrogen Energy, 2018, 43, 9259-9278.	7.1	34
67	Insight into Solvent-Dependent Conformational Polymorph Selectivity: The Case of Undecanedioic Acid. Crystal Growth and Design, 2018, 18, 5947-5956.	3.0	33
68	Polymorphic Behavior and Crystal Habit of an Anti-Viral/HIV Drug:â€‰ Stavudine. Crystal Growth and Design, 2006, 6, 141-149.	3.0	32
69	Design and mechanism of the formation of spherical KCl particles using cooling crystallization without additives. Powder Technology, 2018, 329, 455-462.	4.2	32
70	Oiling-Out Investigation and Morphology Control of Î²-Alanine Based on Ternary Phase Diagrams. Crystal Growth and Design, 2018, 18, 818-826.	3.0	32
71	Application of Nanosize Zeolite Molecular Sieves for Medical Oxygen Concentration. Nanomaterials, 2017, 7, 195.	4.1	31
72	Effects of Additives on the Morphology of Thiamine Nitrate: The Great Difference of Two Kinds of Similar Additives. Crystal Growth and Design, 2018, 18, 775-785.	3.0	31

#	Article	IF	Citations
73	Strong Influence of Amine Grafting on MIL-101 (Cr) Metalâ€“Organic Framework with Exceptional CO₂/N₂ Selectivity. Industrial & Engineering Chemistry Research, 2020, 59, 366-378.	3.7	31
74	Measurement and Prediction of the Solubility of Stearic Acid Polymorphs by the UNIQUAC Equation. Canadian Journal of Chemical Engineering, 2004, 82, 335-342.	1.7	30
75	Effect of microwave irradiation on crystal growth of zeolitized coal fly ash with different solid/liquid ratios. Advanced Powder Technology, 2017, 28, 2865-2874.	4.1	30
76	The fabrication of highly ordered and visible-light-responsive Feâ€“Câ€“N-codoped TiO₂nanotubes. Nanotechnology, 2010, 21, 055706.	2.6	29
77	Crystallization of the Racemic Compound and Conglomerate of (RS)-2-Chloromandelic Acid. Crystal Growth and Design, 2010, 10, 5136-5145.	3.0	28
78	Optimal Solvent Screening for the Crystallization of Pharmaceutical Compounds from Multisolvent Systems. Industrial & Engineering Chemistry Research, 2012, 51, 13792-13802.	3.7	28
79	Ultrasonic Irradiation and Seeding To Prevent Metastable Liquidâ€“Liquid Phase Separation and Intensify Crystallization. Crystal Growth and Design, 2018, 18, 2628-2635.	3.0	27
80	Synthesis of sole gismondine-type zeolite from blast furnace slag during CO2 mineralization process. Journal of Environmental Chemical Engineering, 2021, 9, 104652.	6.7	26
81	A new look at optimal control of a batch crystallizer. AICHE Journal, 2008, 54, 3188-3206.	3.6	25
82	Combining anti-solvent and cooling crystallization: Effect of solvent composition on yield and meta stable zone width. Chemical Engineering Science, 2009, 64, 3555-3563.	3.8	24
83	Synthesis of zeolite NAâ€A using single mode microwave irradiation at atmospheric pressure: The effect of microwave power. Canadian Journal of Chemical Engineering, 2015, 93, 1081-1090.	1.7	23
84	Cocrystals, Salts, and Salt-Solvates of olanzapine; selection of coformers and improved solubility. International Journal of Pharmaceutics, 2021, 608, 121063.	5.2	23
85	Estimation of Nucleation and Growth Kinetics of Ammonium Sulfate from Transients of a Cooling Batch Seeded Crystallizer. Industrial & Engineering Chemistry Research, 2002, 41, 6181-6193.	3.7	22
86	Measurement and prediction of phase diagrams of the enantiomeric 3-chloromandelic acid system. Chemical Engineering Science, 2009, 64, 192-197.	3.8	22
87	Curcumin Eutectics with Enhanced Dissolution Rates: Binary Phase Diagrams, Characterization, and Dissolution Studies. Journal of Chemical & Engineering Data, 2018, 63, 3652-3671.	1.9	22
88	Particle characterization with on-line imaging and neural network image analysis. Chemical Engineering Research and Design, 2020, 157, 114-125.	5.6	22
89	Simultaneous Measurement of Solution Concentration and Slurry Density by Raman Spectroscopy with Artificial Neural Network. Crystal Growth and Design, 2020, 20, 1752-1759.	3.0	22
90	Fabrication of Titania Nanotube Arrays in Viscous Electrolytes. Journal of Nanoscience and Nanotechnology, 2010, 10, 1998-2008.	0.9	21

#	Article	IF	Citations
91	Photoelectrochemical water splitting for hydrogen generation on highly ordered TiO2 nanotubes fabricated by using Ti as cathode. International Journal of Hydrogen Energy, 2012, 37, 103-108.	7.1	21
92	Resolution of sertraline with (R)â€mandelic acid: Chiral discrimination mechanism study. Chirality, 2012, 24, 119-128.	2.6	21
93	Modeling and Optimal Control of Solution Mediated Polymorphic Transformation of <scp>l</scp>-Glutamic Acid. Industrial & Engineering Chemistry Research, 2013, 52, 2633-2641.	3.7	21
94	Solubility measurement and correlation of the form A of ibrutinib in organic solvents from 278.15 to 323.15 K. Journal of Chemical Thermodynamics, 2016, 103, 342-348.	2.0	21
95	Response surface modeling of the removal of methyl orange dye from its aqueous solution using two types of zeolite synthesized from coal fly ash. Materials Express, 2018, 8, 234-244.	0.5	21
96	Solvent-free synthesis of hydroxycancrinite zeolite microspheres during the carbonation process of blast furnace slag. Journal of Alloys and Compounds, 2020, 847, 156456.	5.5	21
97	Preparation and characterization of Linde-type A zeolite (LTA) from coal fly ash by microwave-assisted synthesis method: its application as adsorbent for removal of anionic dyes. International Journal of Coal Preparation and Utilization, 2022, 42, 2064-2077.	2.1	21
98	Molecular salts and co-crystals of mirtazapine with promising physicochemical properties. Journal of Pharmaceutical and Biomedical Analysis, 2015, 110, 93-99.	2.8	20
99	Synthesis and Analysis of Triphenylamine: A Review. Canadian Journal of Chemical Engineering, 2004, 82, 323-334.	1.7	19
100	Multivariable realâ€time optimal control of a cooling and antisolvent semibatch crystallization process. AICHE Journal, 2009, 55, 2591-2602.	3.6	19
101	A New Mgâ€“Alâ€“Cuâ€“Fe-LDH Composite to Enhance the Adsorption of Acid Red 66 Dye: Characterization, Kinetics and Isotherm Analysis. Arabian Journal for Science and Engineering, 2019, 44, 5245-5261.	3.0	19
102	Band gap reduction of (Mo+N) co-doped TiO2 nanotube arrays with a significant enhancement in visible light photo-conversion: A combination of experimental and theoretical study. International Journal of Hydrogen Energy, 2021, 46, 21475-21498.	7.1	19
103	CO₂ Mineral Sequestration and Faujasite Zeolite Synthesis by Using Blast Furnace Slag: Process Optimization and CO₂ Net-Emission Reduction Evaluation. ACS Sustainable Chemistry and Engineering, 2021, 9, 13963-13971.	6.7	19
104	Identification and Characterization of Solid-State Nature of 2-Chloromandelic Acid. Journal of Pharmaceutical Sciences, 2009, 98, 1835-1844.	3.3	18
105	Novel inexpensive transition metal phosphide catalysts for upgrading of pyrolysis oil via hydrodeoxygenation. AICHE Journal, 2016, 62, 3664-3672.	3.6	18
106	Optimizing Biebrich Scarlet removal from water by magnetic zeolite 13X using response surface method. Journal of Environmental Chemical Engineering, 2018, 6, 6175-6183.	6.7	18
107	Insights into the Roasting Kinetics and Mechanism of Blast Furnace Slag with Ammonium Sulfate for CO₂ Mineralization. Industrial & Engineering Chemistry Research, 2019, 58, 14026-14036.	3.7	18
108	Efficient Conversion of Glucose into 5-Hydroxymethylfurfural Using a Sulfonated Carbon-Based Solid Acid Catalyst: An Experimental and Numerical Study. ACS Sustainable Chemistry and Engineering, 0, , .	6.7	18

#	Article	IF	Citations
109	Kinetics and thermodynamic studies of Cr(VI) adsorption using environmental friendly multifunctional zeolites synthesized from coal fly ash under mild conditions. Chemical Engineering Communications, 2020, 207, 808-825.	2.6	18
110	Measurement and Development of Solubility Correlations for Tritolylamine in Twelve Organic Solvents. Industrial & Engineering Chemistry Research, 2005, 44, 970-976.	3.7	17
111	Polymorphic Crystallization and Transformation of the Anti-Viral/HIV Drug Stavudine. Organic Process Research and Development, 2009, 13, 1262-1268.	2.7	17
112	Polymorphism of Progesterone: A New Approach for the Formation of Form II and the Relative Stabilities of Form I and Form II. Crystal Growth and Design, 2014, 14, 4574-4582.	3.0	17
113	Molecular Simulation Approaches for the Prediction of Unknown Crystal Structures and Solubilities of (R)- and (R,S)-Crizotinib in Organic Solvents. Crystal Growth and Design, 2019, 19, 5882-5895.	3.0	17
114	Effects of Temperature and Solvent Properties on the Liquidâ€“Solid Phase Equilibrium of Î³-Pyrazinamide. Journal of Chemical & Engineering Data, 2020, 65, 3667-3678.	1.9	17
115	Design of the spherical agglomerate size in crystallization by developing a twoâ€step bridging mechanism and the model. AICHE Journal, 2022, 68, e17526.	3.6	17
116	Applications of the crystallization process in the pharmaceutical industry. Frontiers of Chemical Engineering in China, 2010, 4, 2-9.	0.6	16
117	Diastereomeric resolution of pâ€chloromandelic acid with (R)â€phenylethylamine. Chirality, 2010, 22, 16-23.	2.6	16
118	Chiral discrimination in diastereomeric salts of chlorineâ€substituted mandelic acid and phenylethylamine. Chirality, 2010, 22, 707-716.	2.6	16
119	Effect of Mixing on the Particle Size Distribution of Paracetamol Continuous Cooling Crystallization Products Using a Computational Fluid Dynamicsâ€“Population Balance Equation Simulation. Crystal Growth and Design, 2018, 18, 2851-2863.	3.0	16
120	Sodium Dodecyl Sulfate-Modified Fe2O3/Molecular Sieves for Removal of Rhodamine B Dyes. Advances in Materials Science and Engineering, 2018, 2018, 1-10.	1.8	16
121	Deep learning-based oriented object detection for in situ image monitoring and analysis: A process analytical technology (PAT) application for taurine crystallization. Chemical Engineering Research and Design, 2021, 170, 444-455.	5.6	15
122	Extended kalman filter based nonlinear geometric control of a seeded batch cooling crystallizer. Canadian Journal of Chemical Engineering, 2002, 80, 167-172.	1.7	14
123	Mechanochemical Synthesis of CPMâ€5: A Green Method. Chemical Engineering and Technology, 2017, 40, 88-93.	1.5	14
124	N- and C-Modified TiO2 Nanotube Arrays: Enhanced Photoelectrochemical Properties and Effect of Nanotubes Length on Photoconversion Efficiency. Nanomaterials, 2018, 8, 198.	4.1	14
125	Control of Crystal Properties in a Mixed-Suspension Mixed-Product Removal Crystallizer: General Methods and the Effects of Secondary Nucleation. Crystal Growth and Design, 2019, 19, 3070-3084.	3.0	14
126	Coupling of CFD and population balance modelling for a continuously seeded helical tubular crystallizer. Journal of Crystal Growth, 2019, 505, 19-25.	1.5	14

#	Article	IF	Citations
127	Ultrasound-assisted solution crystallization of fotagliptin benzoate: Process intensification and crystal product optimization. Ultrasonics Sonochemistry, 2021, 76, 105634.	8.2	14
128	Resolution of 2â€chloromandelic acid with (R)â€(+)â€Nâ€benzylâ€1â€phenylethylamine: chiral discrimination mechanism. Chirality, 2012, 24, 349-355.	2.6	13
129	Removal of CO 2 from landfill gas with landfill leachate using absorption process. International Journal of Greenhouse Gas Control, 2017, 58, 159-168.	4.6	13
130	Solvent-Mediated Nonoriented Self-Aggregation Transformation: A Case Study of Gabapentin. Crystal Growth and Design, 2017, 17, 4207-4216.	3.0	13
131	Virtual Multicomponent Crystal Screening: Hydrogen Bonding Revisited. Crystal Growth and Design, 2021, 21, 5862-5872.	3.0	13
132	The mathematical model of the conversion of a landfill operation from anaerobic to aerobic. Applied Mathematical Modelling, 2017, 50, 53-67.	4.2	12
133	Controlled Recrystallization of Tubular Vinpocetine Crystals with Increased Aqueous Dissolution Rate and In Vivo Bioavailability. Crystal Growth and Design, 2017, 17, 5790-5800.	3.0	12
134	Proposing a method for combining monitored multilayered perceptron (MLP) and self-organizing map (SOM) neural networks in prediction of heat transfer parameters in a double pipe heat exchanger with nanofluid. Heat and Mass Transfer, 2019, 55, 2261-2276.	2.1	12
135	Intermolecular Interactions and Solubility Behavior of Multicomponent Crystal Forms of 2,4-dichlorophenoxyacetic acid: Design, Structure Analysis, and Solid-State Characterization. CrystEngComm, 0, , .	2.6	12
136	Solubility of L-Phenylalanine in Aqueous Solutions. Journal of Chemical Engineering of Japan, 2010, 43, 810-813.	0.6	11
137	On-Chip Preparation of Amphiphilic Nanomicellesâ€“inâ€“Sodium Alginate Spheroids as a Novel Platform Against Triple-Negative Human Breast Cancer Cells: Fabrication, Study of Microfluidics Flow Hydrodynamics and Proof of Concept for Anticancer and Drug Delivery Applications. Journal of Pharmaceutical Sciences, 2019, 108, 3528-3539.	3.3	11
138	Effect of Additives on Preferential Crystallization for the Chiral Resolution of Citrulline: Experimental, Statistical, and Molecular Dynamics Simulation Studies. Crystal Growth and Design, 2022, 22, 2392-2406.	3.0	11
139	In-situ multi-phase flow imaging for particle dynamic tracking and characterization: Advances and applications. Chemical Engineering Journal, 2022, 438, 135554.	12.7	11
140	Sertraline Racemate and Enantiomer: Solid-State Characterization, Binary Phase Diagram, and Crystal Structures. Crystal Growth and Design, 2010, 10, 1633-1645.	3.0	10
141	In Situ Focused Beam Reflectance Measurement (FBRM), Attenuated Total Reflectance Fourier Transform Infrared (ATR-FTIR) and Raman Characterization of the Polymorphic Transformation of Carbamazepine. Pharmaceutics, 2012, 4, 164-178.	4.5	10
142	Crystallization of Esomeprazole Magnesium Water/Butanol Solvate. Molecules, 2016, 21, 544.	3.8	10
143	Self-Induced Nucleation During the Antisolvent Crystallization Process of Candesartan Cilexetil. Crystal Growth and Design, 2018, 18, 7655-7662.	3.0	10
144	Extended kalman filterâ€based nonlinear model predictive control of a continuous KClâ€NaCl crystallizer. Canadian Journal of Chemical Engineering, 2001, 79, 255-262.	1.7	9

#	Article	IF	Citations
145	PROGRESS TOWARDS A DRY PROCESS FOR THE SYNTHESIS OF ZEOLITE â€“ A REVIEW. Reviews in Chemical Engineering, 2005, 21, .	4.4	9
146	The Solubility of Phenanthrene in Toluene: In-situ ATR-FTIR, Experimental Measurement, and Thermodynamic Modelling. Canadian Journal of Chemical Engineering, 2005, 83, 267-273.	1.7	9
147	Vapourâ€“liquid and vapourâ€“liquidâ€“liquid equilibrium modeling for binary, ternary, and quaternary systems of solvents. Fluid Phase Equilibria, 2012, 333, 97-105.	2.5	9
148	Kinetics of (R,S)- and (R)-mandelic acid in an unseeded cooling batch crystallizer. Journal of Crystal Growth, 2010, 312, 3340-3348.	1.5	8
149	A kinetic study of crystallization process of imatinib mesylate with polymorphic transformation phenomenon. Journal of Crystal Growth, 2019, 507, 146-153.	1.5	8
150	Secondary nucleation and growth kinetics of aluminum hydroxide crystallization from potassium aluminate solution. Journal of Crystal Growth, 2019, 507, 232-240.	1.5	7
151	Identifying the Polymorphic Outcome of Hypothetical Polymorphs in Batch and Continuous Crystallizers by Numerical Simulation. Crystal Growth and Design, 2020, 20, 7312-7319.	3.0	7
152	Polymorphism control of l-Glutamic acid in a single-stage and a two-stage MSMPR crystallizer by different seeding strategies. Chemical Engineering Research and Design, 2021, 170, 23-33.	5.6	7
153	Ultrasound-assisted theophylline polymorphic transformation: Selective polymorph nucleation, molecular mechanism and kinetics analysis. Ultrasonics Sonochemistry, 2021, 77, 105675.	8.2	7
154	Dynamic modeling of continuous evaporative cooling KClâ€NaCl crystallizers. Canadian Journal of Chemical Engineering, 1999, 77, 1195-1204.	1.7	6
155	Crystals of isomeric tritolylamines: embrace motifs in crystals, and their thermochemical properties. CrystEngComm, 2006, 8, 59.	2.6	6
156	Nanoscale Optimization and Statistical Modeling of Photoelectrochemical Water Splitting Efficiency of N-Doped TiO2 Nanotubes. Topics in Catalysis, 2015, 58, 114-122.	2.8	6
157	Motion-Based Multiple Object Tracking of Ultrasonic-Induced Nucleation: A Case Study of <scp>l</scp>-Glutamic Acid. Crystal Growth and Design, 2017, 17, 5007-5011.	3.0	6
158	Preparation, Stabilization, and Dissolution Enhancement of Vortioxetine Hydrobromide Metastable Polymorphs in Silica Nanopores. Crystal Growth and Design, 2022, 22, 191-199.	3.0	6
159	Controlled Drug Release of Smart Magnetic Self-Assembled Micelle, Kinetics and Transport Mechanisms. Journal of Pharmaceutical Sciences, 2022, 111, 2378-2388.	3.3	6
160	Direct Crystallization Resolution of Racemates Enhanced by Chiral Nanorods: Experimental, Statistical, and Quantum Mechanics/Molecular Dynamics Simulation Studies. ACS Omega, 2022, 7, 19828-19841.	3.5	6
161	Numerical investigation of heat transfer in a helically coiled tube using copper/water nano-fluid under constant heat flux and prediction of the results using perceptron and radial basis function networks. Heat and Mass Transfer, 2020, 56, 1051-1075.	2.1	5
162	Desolvation of dasatinib methanolate: an improved anhydrous polymorph. CrystEngComm, 2021, 23, 4272-4283.	2.6	5

#	Article	IF	Citations
163	Theoretical and Structural Understanding of the Different Factors Influencing the Formation of Multicomponent Crystals of 2,4-Dichlorophenoxyacetic Acid with N-heterocyclic Compounds. Crystal Growth and Design, 2022, 22, 1707-1719.	3.0	5
164	Formation and Transformation Behavior of Sodium Dehydroacetate Hydrates. Molecules, 2016, 21, 458.	3.8	4
165	Ag decorated Gâ€C 3 N 4 /black titanium oxides composite for the destruction of environmental pollutant under solar irradiation. Canadian Journal of Chemical Engineering, 2019, 97, 2632-2641.	1.7	4
166	Gelation Mechanism of Erythromycin Ethylsuccinate During Crystallization. Transactions of Tianjin University, 2019, 25, 110-117.	6.4	4
167	Multiple Mechanical Behaviors in One Crystal of 2,4-Dichlorophenoxyacetic Acid Form II: Thermomechanical Effect and Elastic Deformation. Crystal Growth and Design, 2022, 22, 3680-3687.	3.0	4
168	MODELING AND NONLINEAR CONTROL OF A CONTINUOUS KCl-NaCl CRYSTALLIZER. Particulate Science and Technology, 2000, 18, 329-357.	2.1	3
169	(R)-Phenylethylammonium (R)-4-chloromandelate. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, o4199-o4199.	0.2	3
170	Continuous Flow Synthesis of Zeolite-A from Coal Fly Ash Utilizing Microwave Irradiation with Recycled Liquid Stream. American Journal of Environmental Sciences, 2017, 13, 233-244.	0.5	3
171	A new highly efficient and stable population array (PA) algorithm to solve multi-dimension population balance equation. Chemical Engineering Science, 2021, 246, 116994.	3.8	3
172	(R)-1-Phenylethanaminium (S)-4-chloromandelate. Acta Crystallographica Section E: Structure Reports Online, 2008, 64, o559-o559.	0.2	3
173	An Aqueous Phase Equilibrium Calculation Algorithm. Canadian Journal of Chemical Engineering, 2002, 80, 741-752.	1.7	2
174	Combined Application of in Situ FBRM, ATR-FTIR, and Raman on Polymorphism Transformation Monitoring During the Cooling Crystallization. Industrial & Engineering Chemistry Research, 2012, , 120912161452001.	3.7	2
175	Improved Resolution of 4-Chloromandelic Acid and the Effect of Chlorine Interactions Using (R)-(+)-Benzyl-1-Phenylethylamine as a Resolving Agent. Molecules, 2018, 23, 3354.	3.8	2
176	Insight into the Formation of Heteromolecular Hydrogen Bonds between Dasatinib and GRAS Molecules. Organic Process Research and Development, 2021, 25, 1579-1588.	2.7	2
177	Investigation on polymorphic behavior of progesterone and stabilization by co-crystallization: a review. Mini-Reviews in Medicinal Chemistry, 2014, 14, 853-61.	2.4	2
178	Preface to the special issue on minerals processing and pipeline transportation. Canadian Journal of Chemical Engineering, 2000, 78, 609-609.	1.7	1
179	Identification and control of a riserâ€type FCC unit. Canadian Journal of Chemical Engineering, 2001, 79, 850-859.	1.7	1
180	Influence of Solution Composition and Temperature on the Crystal Form of Sodium Dehydroacetate. Chemical Engineering and Technology, 2017, 40, 1235-1241.	1.5	1

#	Article	IF	Citations
181	Exploring co-crystallization of curcumin. Acta Crystallographica Section A: Foundations and Advances, 2017, 73, C1038-C1038.	0.1	1
182	Crystal structure of (R)-N-benzyl-1-phenylethanaminium (R)-4-chloromandelate. Acta Crystallographica Section E: Structure Reports Online, 2014, 70, o1223-o1224.	0.2	0
183	A fuzzy logic based approach to real time optimization of dynamic processes. , 2007, , .		0