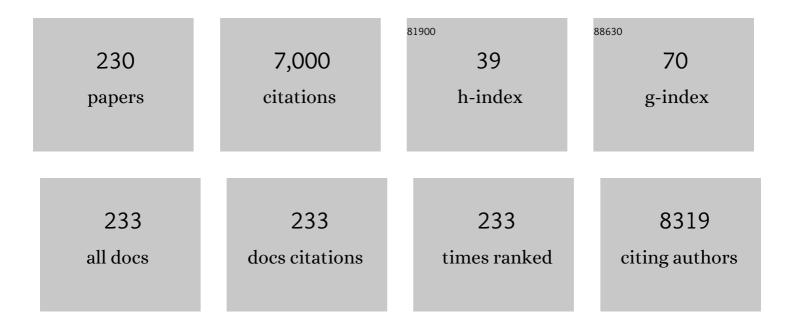
Xiaohua Lu

List of Publications by Year in descending order

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Хилония Ги

#	Article	IF	CITATIONS
1	Viscous behavior of 1-hexyl-methylimidazolium bis(trifluoromethylsulfonyl)imide/titanium dioxide/polyethylene glycol. Chinese Journal of Chemical Engineering, 2023, 54, 280-287.	3.5	Ο
2	Poly(ionic liquid)s as lubricant additives with insight into adsorption-lubrication relationship. Tribology International, 2022, 165, 107278.	5.9	18
3	Molecular insights on Ca2+/Na+ separation via graphene-based nanopores: The role of electrostatic interactions to ionic dehydration. Chinese Journal of Chemical Engineering, 2022, 41, 220-229.	3.5	3
4	Advanced Materialâ€Oriented Biomass Precise Reconstruction: A Review on Porous Carbon with Inherited Natural Structure and Created Artificial Structure by Postâ€Treatment. Macromolecular Bioscience, 2022, 22, e2100479.	4.1	13
5	Molecular Understanding of the Solid Interface-Induced Microstructures of 1-Hexyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide in Gas Absorption. Industrial & Engineering Chemistry Research, 2022, 61, 3754-3765.	3.7	2
6	CO2-negative biomass conversion: An economic route with co-production of green hydrogen and highly porous carbon. Applied Energy, 2022, 311, 118685.	10.1	14
7	A negative-carbon footprint process with mixed biomass feedstock maximizes conversion efficiency, product value and CO2 mitigation. Bioresource Technology, 2022, 351, 127004.	9.6	18
8	Effect of surface roughness on partition of ionic liquids in nanopores by a perturbed-chain SAFT density functional theory. Journal of Chemical Physics, 2022, 157, .	3.0	4
9	Mesoscience in supported nano-metal catalysts based on molecular thermodynamic modeling: A mini review and perspective. Chemical Engineering Science, 2021, 229, 116164.	3.8	9
10	A mini-review on the modeling of volatile organic compound adsorption in activated carbons: Equilibrium, dynamics, and heat effects. Chinese Journal of Chemical Engineering, 2021, 31, 153-163.	3.5	20
11	Effect of dimethyl carbonate on the behavior of water confined in carbon nanotube. Chinese Journal of Chemical Engineering, 2021, 31, 177-185.	3.5	2
12	Techno-economic analysis of biomass processing with dual outputs of energy and activated carbon. Bioresource Technology, 2021, 319, 124108.	9.6	41
13	A novel interfacial thermodynamic model for predicting solubility of nanoparticles coated by stabilizers. Chinese Journal of Chemical Engineering, 2021, 31, 103-112.	3.5	6
14	Modeling Interfacial Properties with Spot-DGT-ePC-SAFT for Binary Mixtures Including Ionic Liquid-Based Systems. Industrial & Engineering Chemistry Research, 2021, 60, 4484-4497.	3.7	5
15	Thermodynamic analysis and modification of Cibbs–Thomson equation for melting point depression of metal nanoparticles. Chinese Journal of Chemical Engineering, 2021, 31, 198-205.	3.5	9
16	Dynamical coupling of ion adsorption with fluid flow in nanopores. AICHE Journal, 2021, 67, e17266.	3.6	11
17	Molecular insight into flow resistance of choline chloride/urea confined in ionic model nanoslits. Fluid Phase Equilibria, 2021, 533, 112934.	2.5	4
18	Kinetics study and performance comparison of CO2 separation using aqueous choline-amino acid solutions. Separation and Purification Technology, 2021, 261, 118284.	7.9	9

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19	Modeling interfacial properties of ionic liquids with ePC-SAFT combined with density gradient theory. Fluid Phase Equilibria, 2021, 536, 112984.	2.5	5
20	CO2 absorption using a hybrid 1-hexyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide/titanium dioxide/polyethylene glycol absorbent. Fluid Phase Equilibria, 2021, 538, 113011.	2.5	5
21	Accelerate the ePC-SAFT-DFT Calculation with the Chebyshev Pseudospectral Collocation Method. Industrial & Engineering Chemistry Research, 2021, 60, 9269-9285.	3.7	7
22	Cycling pressure-switching process enriches micropores in activated carbon by accelerating reactive gas internal diffusion in porous channels. Sustainable Materials and Technologies, 2021, 28, e00248.	3.3	2
23	Feasibility of Solar Updraft Towers as Photocatalytic Reactors for Removal of Atmospheric Methane–The Role of Catalysts and Rate Limiting Steps. Frontiers in Chemistry, 2021, 9, 745347.	3.6	6
24	Partition and selectivity of electrolytes in cylindrical nanopores with heterogeneous surface charge. Journal of Molecular Liquids, 2021, 340, 116839.	4.9	5
25	Simultaneous representation of thermodynamic properties and viscosities of ILs/DESs+co-solvent systems by Eyring-NRTL model. Fluid Phase Equilibria, 2021, 547, 113176.	2.5	4
26	Versatile Ionic Gel Driven by Dual Hydrogen Bond Networks: Toward Advanced Lubrication and Self-Healing. ACS Applied Polymer Materials, 2021, 3, 5932-5941.	4.4	14
27	Hollow IF-MoS2/r-GO Nanocomposite Filled Polyimide Coating with Improved Mechanical, Thermal and Tribological Properties. Coatings, 2021, 11, 25.	2.6	7
28	Accelerate the Electrolyte Perturbed-Chain Statistical Associating Fluid Theory–Density Functional Theory Calculation With the Chebyshev Pseudo-Spectral Collocation Method. Part II. Spherical Geometry and Anderson Mixing. Frontiers in Chemistry, 2021, 9, 801551.	3.6	4
29	Thermodynamic study on aqueous polyethylene glycol 200 solution and performance assessment for CO2 separation. Fluid Phase Equilibria, 2020, 504, 112336.	2.5	9
30	CO2 separation using a hybrid choline-2-pyrrolidine-carboxylic acid/polyethylene glycol/water absorbent. Applied Energy, 2020, 257, 113962.	10.1	17
31	Multi-objective optimization and dynamic control of biogas pressurized water scrubbing process. Renewable Energy, 2020, 147, 2335-2344.	8.9	14
32	Heterogeneous interfacial engineering of Pd/TiO2 with controllable carbon content for improved direct synthesis efficiency of H2O2. Chinese Journal of Catalysis, 2020, 41, 312-321.	14.0	14
33	Molecular insights into the microstructure of ethanol/water binary mixtures confined within typical 2D nanoslits: The role of the adsorbed layers induced by different solid surfaces. Fluid Phase Equilibria, 2020, 509, 112452.	2.5	10
34	Solvent effects on a derivative of 1,3,4-oxadiazole tautomerization reaction in water: A reaction density functional theory study. Chemical Engineering Science, 2020, 213, 115380.	3.8	15
35	Improving high-pressure water scrubbing through process integration and solvent selection for biogas upgrading. Applied Energy, 2020, 276, 115462.	10.1	37
36	Physicochemical properties and structure of fluid at nano-/micro-interface: Progress in simulation and experimental study. Green Energy and Environment, 2020, 5, 274-285.	8.7	23

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37	Excellent Protein Immobilization and Stability on Heterogeneous C–TiO ₂ Hybrid Nanostructures: A Single Protein AFM Study. Langmuir, 2020, 36, 9323-9332.	3.5	9
38	Energy-consumption analysis of carbon-based material for CO2 capture process. Fluid Phase Equilibria, 2020, 510, 112504.	2.5	3
39	Molecular insight into wetting behavior of deep eutectic solvent droplets on ionic substrates: A molecular dynamics study. Journal of Molecular Liquids, 2020, 319, 114298.	4.9	10
40	Thermodynamic Study of Choline Chloride-Based Deep Eutectic Solvents with Water and Methanol. Journal of Chemical & Engineering Data, 2020, 65, 2446-2457.	1.9	65
41	How to detect possible pitfalls in ePC-SAFT modelling: Extension to ionic liquids. Fluid Phase Equilibria, 2020, 519, 112641.	2.5	12
42	Acetone adsorption on activated carbons: Roles of functional groups and humidity. Fluid Phase Equilibria, 2020, 521, 112645.	2.5	15
43	Interfacial structure and differential capacitance of ionic liquid/graphite interface: A perturbed-chain SAFT density functional theory study. Journal of Molecular Liquids, 2020, 310, 113199.	4.9	14
44	Carbon recycling – An immense resource and key to a smart climate engineering: A survey of technologies, cost and impurity impact. Renewable and Sustainable Energy Reviews, 2020, 131, 110010.	16.4	29
45	Atomistic insights into the effects of carbonyl oxygens in functionalized graphene nanopores on Ca2+/Na+ sieving. Carbon, 2020, 164, 305-316.	10.3	12
46	How to Detect Possible Pitfalls in ePC-SAFT Modeling. 2. Extension to Binary Mixtures of 96 Ionic Liquids with CO2, H2S, CO, O2, CH4, N2, and H2. Industrial & Engineering Chemistry Research, 2020, 59, 21579-21591.	3.7	12
47	Critical Role of Carbonized Cellulose in the Evolution of Highly Porous Biocarbon: Seeing the Structural and Compositional Changes of Spent Mushroom Substrate by Deconvoluted Thermogravimetric Analysis. Industrial & Engineering Chemistry Research, 2020, 59, 22541-22548.	3.7	7
48	Excellent Trace Detection of Proteins on TiO ₂ Nanotube Substrates through Novel Topography Optimization. Journal of Physical Chemistry C, 2020, 124, 27790-27800.	3.1	10
49	Mechanistic Study of Protein Adsorption on Mesoporous TiO ₂ in Aqueous Buffer Solutions. Langmuir, 2019, 35, 11037-11047.	3.5	8
50	Atomistic Insights into the Layered Microstructure and Time-Dependent Stability of [BMIM][PF ₆] Confined within the Meso-Slit of Carbon. Journal of Physical Chemistry B, 2019, 123, 6857-6869.	2.6	12
51	Novel Solvent for CO2 Capture. Energy Procedia, 2019, 158, 5124-5129.	1.8	1
52	AFM Study of pHâ€Dependent Adhesion of Single Protein to TiO ₂ Surface. Advanced Materials Interfaces, 2019, 6, 1900411.	3.7	19
53	Computational screening carbon-based adsorbents for CH4 delivery capacity. Fluid Phase Equilibria, 2019, 494, 184-191.	2.5	8
54	Improved CO2 separation performance of aqueous choline-glycine solution by partially replacing water with polyethylene glycol. Fluid Phase Equilibria, 2019, 495, 12-20.	2.5	4

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55	Modeling Thermodynamic Derivative Properties and Gas Solubility of Ionic Liquids with ePC-SAFT. Industrial & Engineering Chemistry Research, 2019, 58, 8401-8417.	3.7	33
56	Progress in molecular-simulation-based research on the effects of interface-induced fluid microstructures on flow resistance. Chinese Journal of Chemical Engineering, 2019, 27, 1403-1415.	3.5	6
57	Study of CO2 absorption/desorption behaviors in aqueous (2-hydroxyethyl)-trimethyl-ammonium (S)-2-pyrrolidine-carboxylic acid salt ([Cho][Pro]) + K2CO3 solutions. International Journal of Greenhouse Gas Control, 2019, 83, 51-60.	4.6	6
58	Effects of ionic hydration and hydrogen bonding on flow resistance of ionic aqueous solutions confined in molybdenum disulfide nanoslits: Insights from molecular dynamics simulations. Fluid Phase Equilibria, 2019, 489, 23-29.	2.5	9
59	Niobium-doped TiO2 solid acid catalysts: Strengthened interfacial polarization, amplified microwave heating and enhanced energy efficiency of hydroxymethylfurfural production. Applied Catalysis B: Environmental, 2019, 243, 741-749.	20.2	34
60	Determination of the small amount of proteins interacting with TiO2 nanotubes by AFM-measurement. Biomaterials, 2019, 192, 368-376.	11.4	19
61	Poly(alkylimidazolium bis(trifluoromethylsulfonyl)imide)â€Based Polymerized Ionic Liquids: A Potential Highâ€Performance Lubricating Grease. Advanced Materials Interfaces, 2019, 6, 1801796.	3.7	5
62	Adjusting the rheological properties of corn-straw slurry to reduce the agitation power consumption in anaerobic digestion. Bioresource Technology, 2019, 272, 360-369.	9.6	25
63	Molecular insights into multilayer 18-crown-6-like graphene nanopores for K+/Na+ separation: A molecular dynamics study. Carbon, 2019, 144, 32-42.	10.3	40
64	Thermodynamic analysis of CO2 separation from biogas with conventional ionic liquids. Applied Energy, 2018, 217, 75-87.	10.1	20
65	Effect of water concentration on the microstructures of choline chloride/urea (1:2) /water mixture. Fluid Phase Equilibria, 2018, 470, 134-139.	2.5	37
66	Turning the solubility and lubricity of ionic liquids by absorbing CO 2. Tribology International, 2018, 121, 223-230.	5.9	22
67	Interfacial Engineering of NiMo/Mesoporous TiO2 Catalyst with Carbon for Enhanced Hydrodesulfurization Performance. Catalysis Letters, 2018, 148, 992-1002.	2.6	4
68	Localizing microwave heat by surface polarization of titanate nanostructures for enhanced catalytic reaction efficiency. Applied Catalysis B: Environmental, 2018, 227, 266-275.	20.2	21
69	Extra low friction coefficient caused by the formation of a solid-like layer: A new lubrication mechanism found through molecular simulation of the lubrication of MoS2 nanoslits. Chinese Journal of Chemical Engineering, 2018, 26, 2412-2419.	3.5	10
70	Modeling, simulation and evaluation of biogas upgrading using aqueous choline chloride/urea. Applied Energy, 2018, 229, 1269-1283.	10.1	40
71	Structurally tuning microwave absorption of core/shell structured CNT/polyaniline catalysts for energy efficient saccharide-HMF conversion. Applied Catalysis B: Environmental, 2018, 220, 581-588.	20.2	50
72	Effect of endogenous hydrogen utilization on improved methane production in an integrated microbial electrolysis cell and anaerobic digestion: Employing catalyzed stainless steel mesh cathode. Chinese Journal of Chemical Engineering, 2018, 26, 574-582.	3.5	18

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73	Pd catalysts supported on rGO-TiO 2 composites for direct synthesis of H 2 O 2 : Modification of Pd 2+ /Pd 0 ratio and hydrophilic property. Chinese Journal of Chemical Engineering, 2018, 26, 534-539.	3.5	5
74	The peculiar effect of water on ionic liquids and deep eutectic solvents. Chemical Society Reviews, 2018, 47, 8685-8720.	38.1	346
75	TiO ₂ Nanofoam–Nanotube Array for Surface-Enhanced Raman Scattering. ACS Applied Nano Materials, 2018, 1, 6563-6566.	5.0	20
76	Construction of Hierarchically Porous Nanoparticles@Metal–Organic Frameworks Composites by Inherent Defects for the Enhancement of Catalytic Efficiency. Advanced Materials, 2018, 30, e1803263.	21.0	88
77	Unique Structures and Vibrational Spectra of Protic Ionic Liquids Confined in TiO ₂ Slits: The Role of Interfacial Hydrogen Bonds. Langmuir, 2018, 34, 13449-13458.	3.5	9
78	Choline-based deep eutectic solvents for CO2 separation: Review and thermodynamic analysis. Renewable and Sustainable Energy Reviews, 2018, 97, 436-455.	16.4	134
79	Techno-economic analysis and performance comparison of aqueous deep eutectic solvent and other physical absorbents for biogas upgrading. Applied Energy, 2018, 225, 437-447.	10.1	60
80	Supported ionic liquid sorbents for CO2 capture from simulated flue-gas. Chinese Journal of Chemical Engineering, 2018, 26, 2377-2384.	3.5	20
81	Water in Narrow Carbon Nanotubes: Roughness Promoted Diffusion Transition. Journal of Physical Chemistry C, 2018, 122, 19124-19132.	3.1	32
82	Coupled Chemical and Thermal Drivers in Microwaves toward Ultrafast HMF Oxidation to FDCA. ACS Sustainable Chemistry and Engineering, 2018, 6, 11493-11501.	6.7	41
83	Right Way of Using Graphene Oxide Additives for Water-Lubricated PEEK: Adding in Polymer or Water?. Tribology Letters, 2018, 66, 1.	2.6	15
84	Modeling Viscosity of Ionic Liquids with Electrolyte Perturbed-Chain Statistical Associating Fluid Theory and Free Volume Theory. Industrial & Engineering Chemistry Research, 2018, 57, 8784-8801.	3.7	28
85	<i>In Situ</i> Template-Synthesis of Hollow CeO ₂ Nanobeads in scCO ₂ with Improved Catalytic Activity Towards CO Oxidation. Journal of Nanoscience and Nanotechnology, 2018, 18, 2068-2071.	0.9	0
86	Developing Electrolyte Perturbed-Chain Statistical Associating Fluid Theory Density Functional Theory for CO ₂ Separation by Confined Ionic Liquids. Journal of Physical Chemistry C, 2018, 122, 15464-15473.	3.1	12
87	Hydrophilicity effect on CO ₂ /CH ₄ separation using carbon nanotube membranes: insights from molecular simulation. Molecular Simulation, 2017, 43, 502-509.	2.0	5
88	A New Electrochemical System Based on a Flow-Field Shaped Solid Electrode and 3D-Printed Thin-Layer Flow Cell: Detection of Pb ²⁺ Ions by Continuous Flow Accumulation Square-Wave Anodic Stripping Voltammetry. Analytical Chemistry, 2017, 89, 5024-5029.	6.5	59
89	Experimental study of CO 2 absorption in aqueous cholinium-based ionic liquids. Fluid Phase Equilibria, 2017, 445, 14-24.	2.5	45
90	Anaerobic co-digestion process for biogas production: Progress, challenges and perspectives. Renewable and Sustainable Energy Reviews, 2017, 76, 1485-1496.	16.4	590

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91	CO ₂ Absorption in Mixed Aqueous Solution of MDEA and Cholinium Glycinate. Energy & Fuels, 2017, 31, 7325-7333.	5.1	20
92	Investigation of Structural, Thermal, and Dynamical Properties of Pd–Au–Pt Ternary Metal Nanoparticles Confined in Carbon Nanotubes Based on MD Simulation. Journal of Physical Chemistry C, 2017, 121, 12911-12920.	3.1	12
93	Carbon coated Li4Ti5O12 fibers: Relying on the lithium diffusivity in TiO2–B crystal structure for high rate lithium battery. Journal of Alloys and Compounds, 2017, 721, 545-553.	5.5	7
94	Enhancing Energy Efficiency in Saccharide–HMF Conversion with Core/shell Structured Microwave Responsive Catalysts. ACS Sustainable Chemistry and Engineering, 2017, 5, 4352-4358.	6.7	32
95	Metal–Organic Framework Derivatives for Improving the Catalytic Activity of the CO Oxidation Reaction. ACS Applied Materials & Interfaces, 2017, 9, 15394-15398.	8.0	53
96	Efficient Molecular Approach to Quantifying Solvent-Mediated Interactions. Langmuir, 2017, 33, 11817-11824.	3.5	13
97	Confinement Phenomenon Effect on the CO ₂ Absorption Working Capacity in Ionic Liquids Immobilized into Porous Solid Supports. Langmuir, 2017, 33, 11719-11726.	3.5	17
98	Effect of Adsorbed Alcohol Layers on the Behavior of Water Molecules Confined in a Graphene Nanoslit: A Molecular Dynamics Study. Langmuir, 2017, 33, 11467-11474.	3.5	29
99	CO ₂ Absorption in the Ionic Liquids Immobilized on Solid Surface by Molecular Dynamics Simulation. Langmuir, 2017, 33, 11658-11669.	3.5	19
100	Generalized Gibbs free energy of confined nanoparticles. AICHE Journal, 2017, 63, 4595-4603.	3.6	18
101	Biomethane storage in activated carbons: a grand canonical Monte Carlo simulation study. Molecular Simulation, 2017, 43, 1142-1152.	2.0	3
102	Excellent performance of Pt-C/TiO 2 for methanol oxidation: Contribution of mesopores and partially coated carbon. Applied Surface Science, 2017, 426, 890-896.	6.1	38
103	Mg ²⁺ -Channel-Inspired Nanopores for Mg ²⁺ /Li ⁺ Separation: The Effect of Coordination on the Ionic Hydration Microstructures. Langmuir, 2017, 33, 9201-9210.	3.5	38
104	Molecular Interactions of Protein with TiO ₂ by the AFM-Measured Adhesion Force. Langmuir, 2017, 33, 11626-11634.	3.5	25
105	Biogas upgrading using single-walled carbon nanotubes by molecular simulation. Molecular Simulation, 2017, 43, 1034-1044.	2.0	0
106	Wetting control through topography and surface hydrophilic/hydrophobic property changes by coarse grained simulation. Molecular Simulation, 2017, 43, 1202-1208.	2.0	5
107	Flow-resistance analysis of nano-confined fluids inspired from liquid nano-lubrication: A review. Chinese Journal of Chemical Engineering, 2017, 25, 1552-1562.	3.5	12
108	The effect of H2O2 desorption on achieving improved selectivity for direct synthesis of H2O2 over TiO2(B)/anatase supported Pd catalyst. Catalysis Communications, 2017, 89, 69-72.	3.3	14

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109	Facile synthesis of amino-functionalized mesoporous TiO 2 microparticles for adenosine deaminase immobilization. Microporous and Mesoporous Materials, 2017, 239, 158-166.	4.4	35
110	Tribological Properties of Porous PEEK Composites Containing Ionic Liquid under Dry Friction Condition. Lubricants, 2017, 5, 19.	2.9	14
111	Carbon-Modified Mesoporous Anatase/TiO2(B) Whisker for Enhanced Activity in Direct Synthesis of Hydrogen Peroxide by Palladium. Catalysts, 2017, 7, 175.	3.5	13
112	Electric Fieldâ€Responsive Nanopores with Ion Selectivity: Controlling Based on Transport Resistance. Chemical Engineering and Technology, 2016, 39, 993-997.	1.5	7
113	Review on heat-utilization processes and heat-exchange equipment in biogas engineering. Journal of Renewable and Sustainable Energy, 2016, 8, .	2.0	24
114	CO 2 /N 2 separation using supported ionic liquid membranes with green and cost-effective [Choline][Pro]/PEG200 mixtures. Chinese Journal of Chemical Engineering, 2016, 24, 1513-1521.	3.5	23
115	Bovine Serum Albumin Adsorption in Mesoporous Titanium Dioxide: Pore Size and Pore Chemistry Effect. Langmuir, 2016, 32, 3995-4003.	3.5	31
116	Modelling interfacial properties of ionic liquids with ePC-SAFT combined with density gradient theory. Molecular Physics, 2016, 114, 2492-2499.	1.7	14
117	CO ₂ Uptake Behavior of Supported Tetraethylenepentamine Sorbents. Energy & Fuels, 2016, 30, 5083-5091.	5.1	21
118	Solubilities of CO2, CH4, H2, CO and N2 in choline chloride/urea. Green Energy and Environment, 2016, 1, 195-200.	8.7	65
119	Temperature-dependent structural properties of water molecules confined in TiO2 nanoslits: Insights from molecular dynamics simulations. Fluid Phase Equilibria, 2016, 430, 169-177.	2.5	19
120	Thermodynamic Study for Gas Absorption in Choline-2-pyrrolidine-carboxylic Acid + Polyethylene Glycol. Journal of Chemical & Engineering Data, 2016, 61, 3428-3437.	1.9	47
121	Abnormal change of melting points of gold nanoparticles confined between two-layer graphene nanosheets. RSC Advances, 2016, 6, 108343-108346.	3.6	6
122	A Simple Prediction Model for Higher Heat Value of Biomass. Journal of Chemical & Engineering Data, 2016, 61, 4039-4045.	1.9	29
123	Lubrication Behavior of Water Molecules Confined in TiO ₂ Nanoslits: A Molecular Dynamics Study. Journal of Chemical & Engineering Data, 2016, 61, 4023-4030.	1.9	15
124	Molecular Behavior of Water on Titanium Dioxide Nanotubes: A Molecular Dynamics Simulation Study. Journal of Chemical & Engineering Data, 2016, 61, 4131-4138.	1.9	12
125	Molecular Simulation Study of the Adsorption and Diffusion of a Mixture of CO ₂ /CH ₄ in Activated Carbon: Effect of Textural Properties and Surface Chemistry. Journal of Chemical & Engineering Data, 2016, 61, 4139-4147.	1.9	40
126	Molar Enthalpy of Mixing for Choline Chloride/Urea Deep Eutectic Solvent + Water System. Journal of Chemical & Engineering Data, 2016, 61, 4172-4177.	1.9	30

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127	Molecular Dynamics Study of Mg ²⁺ /Li ⁺ Separation via Biomimetic Graphene-Based Nanopores: The Role of Dehydration in Second Shell. Langmuir, 2016, 32, 13778-13786.	3.5	58
128	Large-Scale Fabrication of Rutile TiO2 with 3D Hierarchical Flower-Like Morphology. Journal of Nanoscience and Nanotechnology, 2016, 16, 12991-12995.	0.9	0
129	Diffusion of CO ₂ /CH ₄ confined in narrow carbon nanotube bundles. Molecular Physics, 2016, 114, 2530-2540.	1.7	15
130	Enriching Heteroelements in Lignin as Lubricating Additives for Bioionic Liquids. ACS Sustainable Chemistry and Engineering, 2016, 4, 3877-3887.	6.7	36
131	Evaluation of imidazolium-based ionic liquids for biogas upgrading. Applied Energy, 2016, 175, 69-81.	10.1	36
132	Confined molecular motion across liquid/liquid interfaces in a triphasic reaction towards free-standing conductive polymer tube arrays. Journal of Materials Chemistry A, 2016, 4, 6290-6294.	10.3	7
133	Tribological behaviors of carbon series additions reinforced <scp>CF/PTFE</scp> composites at high speed. Journal of Applied Polymer Science, 2016, 133, .	2.6	15
134	Mass Transfer Rate Enhancement for CO2 Separation by Ionic Liquids: Effect of Film Thickness. Industrial & Engineering Chemistry Research, 2016, 55, 366-372.	3.7	25
135	Nanomaterial-oriented molecular simulations of ion behaviour in aqueous solution under nanoconfinement. Molecular Simulation, 2016, 42, 784-798.	2.0	18
136	Adsorption of binary CO ₂ /CH ₄ mixtures using carbon nanotubes: Effects of confinement and surface functionalization. Separation Science and Technology, 2016, 51, 1079-1092.	2.5	4
137	Liquid–Solid Nanofriction and Interfacial Wetting. Langmuir, 2016, 32, 743-750.	3.5	31
138	Influences of geometrical topography and surface chemistry on the stable immobilization of adenosine deaminase on mesoporous TiO 2. Chemical Engineering Science, 2016, 139, 142-151.	3.8	19
139	Screening of conventional ionic liquids for carbon dioxide capture and separation. Applied Energy, 2016, 162, 1160-1170.	10.1	93
140	Surface Structure and Interaction of Surface/Interface Probed by Mesoscale Simulations and Experiments. Advances in Chemical Engineering, 2015, 47, 85-162.	0.9	1
141	Massâ€ŧransfer rate enhancement for CO ₂ separation by ionic liquids: Theoretical study on the mechanism. AICHE Journal, 2015, 61, 4437-4444.	3.6	34
142	Wellâ€Dispersed and Sizeâ€Controlled Supported Metal Oxide Nanoparticles Derived from MOF Composites and Further Application in Catalysis. Small, 2015, 11, 3130-3134.	10.0	70
143	Self-Lubricating Polytetrafluoroethylene/Polyimide Blends Reinforced with Zinc Oxide Nanoparticles. Journal of Nanomaterials, 2015, 2015, 1-8.	2.7	22
144	In-situ synthesized mesoporous TiO2-B/anatase microparticles: Improved anodes for lithium ion batteries. Chinese Journal of Chemical Engineering, 2015, 23, 583-589.	3.5	17

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145	TiO2 nanofibers heterogeneously wrapped with reduced graphene oxide as efficient Pt electrocatalyst supports for methanol oxidation. International Journal of Hydrogen Energy, 2015, 40, 3679-3688.	7.1	42
146	Molecular dynamics simulation of melting and crystallization processes of polyethylene clusters confined in armchair single-walled carbon nanotubes. Journal of Molecular Modeling, 2015, 21, 9.	1.8	6
147	Facile Synthesis of Mesoporous MoS ₂ â€TiO ₂ Nanofibers for Ultrastable Lithium Ion Battery Anodes. ChemElectroChem, 2015, 2, 374-381.	3.4	51
148	CuO/Cu ₂ O porous composites: shape and composition controllable fabrication inherited from metal organic frameworks and further application in CO oxidation. Journal of Materials Chemistry A, 2015, 3, 5294-5298.	10.3	100
149	Modeling thermodynamic derivative properties of ionic liquids with ePC-SAFT. Fluid Phase Equilibria, 2015, 405, 73-82.	2.5	43
150	A template-free method for stable CuO hollow microspheres fabricated from a metal organic framework (HKUST-1). Nanoscale, 2015, 7, 9411-9415.	5.6	33
151	Determination of the ion exchange process of K ₂ Ti ₄ O ₉ fibers at constant pH and modeling with statistical rate theory. RSC Advances, 2015, 5, 73474-73480.	3.6	3
152	A Novel Exploration of a Combination of Gambogic Acid with TiO2 Nanofibers: The Photodynamic Effect for HepG2 Cell Proliferation. Materials, 2014, 7, 6865-6878.	2.9	11
153	Energy Consumption Analysis for CO2 Separation from Gas Mixtures with Liquid Absorbents. Energy Procedia, 2014, 61, 2695-2698.	1.8	7
154	Water on Titanium Dioxide Surface: A Revisiting by Reactive Molecular Dynamics Simulations. Langmuir, 2014, 30, 14832-14840.	3.5	64
155	Adsorption of N-Butane/I-Butane in Zeolites: Simulation and Theory Study. Separation Science and Technology, 2014, 49, 1215-1226.	2.5	6
156	Modeling the Viscosity of Ionic Liquids with the Electrolyte Perturbed-Chain Statistical Association Fluid Theory. Industrial & Engineering Chemistry Research, 2014, 53, 20258-20268.	3.7	32
157	Flow resistance analysis of nanoconfined water in silt pores by molecular simulations: Effect of pore wall interfacial properties. Fluid Phase Equilibria, 2014, 362, 235-241.	2.5	18
158	Effect of Water on the Density, Viscosity, and CO ₂ Solubility in Choline Chloride/Urea. Journal of Chemical & Engineering Data, 2014, 59, 3344-3352.	1.9	170
159	Energy consumption analysis for CO2 separation using imidazolium-based ionic liquids. Applied Energy, 2014, 136, 325-335.	10.1	78
160	Highly Crystalline Mesoporous TiO ₂ (B) Nanofibers. Journal of Physical Chemistry C, 2014, 118, 3049-3055.	3.1	21
161	Carbon-protected Au nanoparticles supported on mesoporous TiO ₂ for catalytic reduction of p-nitrophenol. RSC Advances, 2014, 4, 29591-29594.	3.6	25
162	Interface‣trengthened Polyimide/Carbon Nanofibers Nanocomposites with Superior Mechanical and Tribological Properties. Macromolecular Chemistry and Physics, 2014, 215, 1407-1414.	2.2	15

#	Article	IF	CITATIONS
163	Protein adsorptive behavior on mesoporous titanium dioxide determined by geometrical topography. Chemical Engineering Science, 2014, 117, 146-155.	3.8	19
164	Energy consumption analysis for CO2 separation from gas mixtures. Applied Energy, 2014, 130, 237-243.	10.1	31
165	Modeling mass transfer of CO2 in brine at high pressures by chemical potential gradient. Science China Chemistry, 2013, 56, 821-830.	8.2	3
166	Bioinspired Graphene Nanopores with Voltage-Tunable Ion Selectivity for Na ⁺ and K ⁺ . ACS Nano, 2013, 7, 10148-10157.	14.6	199
167	Controllable atomistic graphene oxide model and its application in hydrogen sulfide removal. Journal of Chemical Physics, 2013, 139, 194707.	3.0	23
168	Wetting Behavior of Ionic Liquid on Mesoporous Titanium Dioxide Surface by Atomic Force Microscopy. ACS Applied Materials & Interfaces, 2013, 5, 2692-2698.	8.0	24
169	Friction and Wear Behavior of CF/PTFE Composites Lubricated by Choline Chloride Ionic Liquids. Tribology Letters, 2013, 49, 413-420.	2.6	25
170	Shape-controllable synthesis of CeO2 particles in CO2-expanded ethanol towards CO oxidation application. RSC Advances, 2013, 3, 5302.	3.6	3
171	TiO2-B nanofibers with high thermal stability as improved anodes for lithium ion batteries. Electrochemistry Communications, 2013, 27, 124-127.	4.7	31
172	Molecular simulations on nanoconfined water molecule behaviors for nanoporous material applications. Microfluidics and Nanofluidics, 2013, 15, 191-205.	2.2	49
173	Some Insight into Stability of Amorphous Poly(ethylene glycol) Dimethyl Ether Polymers Based on Molecular Dynamics Simulations. Journal of Physical Chemistry Letters, 2013, 4, 1718-1722.	4.6	4
174	Ice-like Water Structure in Carbon Nanotube (8,8) Induces Cationic Hydration Enhancement. Journal of Physical Chemistry C, 2013, 117, 11412-11420.	3.1	64
175	Exploration on the structure, stability, and isomerization of planar C _{<i>n</i>} B ₅ (<i>n</i> = 1â~7) clusters. International Journal of Quantum Chemistry, 2013, 113, 2514-2522.	2.0	6
176	A hybrid perturbed-chain SAFT density functional theory for representing fluid behavior in nanopores. Journal of Chemical Physics, 2013, 138, 224706.	3.0	31
177	A hybrid perturbed-chain SAFT density functional theory for representing fluid behavior in nanopores: Mixtures. Journal of Chemical Physics, 2013, 139, 194705.	3.0	30
178	Carbon heterogeneous surface modification on a mesoporous TiO2-supported catalyst and its enhanced hydrodesulfurization performance. Chemical Communications, 2012, 48, 11525.	4.1	43
179	Thermal analysis of hydrogen titanate nanotubes prepared by potassium dititanate with water vapour treatment. Journal of Thermal Analysis and Calorimetry, 2012, 110, 671-675.	3.6	5
180	Molecular behavior of water in TiO2 nano-slits with varying coverages of carbon: a molecular dynamics simulation study. Physical Chemistry Chemical Physics, 2012, 14, 16536.	2.8	34

#	Article	IF	CITATIONS
181	Changes in CNT-confined water structural properties induced by the variation in water molecule orientation. Molecular Simulation, 2012, 38, 1094-1102.	2.0	11
182	Simple Physical Approach to Reducing Frictional and Adhesive Forces on a TiO ₂ Surface via Creating Heterogeneous Nanopores. Langmuir, 2012, 28, 15270-15277.	3.5	20
183	DFT study of coverage-depended adsorption of NH3 on TiO2-B (100) surface. Physical Chemistry Chemical Physics, 2012, 14, 16618.	2.8	18
184	Core–shell TiO2/C nanofibers as supports for electrocatalytic and synergistic photoelectrocatalytic oxidation of methanol. Journal of Materials Chemistry, 2012, 22, 4025.	6.7	83
185	Preparation and Characterization of Mesoporous MoO3/TiO2 Composite with High Surface Area by Self-Supporting and Ammonia Method. Catalysis Letters, 2012, 142, 480-485.	2.6	12
186	Methodology of non-equilibrium thermodynamics for kinetics research of CO2 capture by ionic liquids. Science China Chemistry, 2012, 55, 1079-1091.	8.2	7
187	A study of tribological and mechanical properties of PTFE composites filled with surface treated K ₂ Ti ₆ O ₁₃ whisker. Journal of Applied Polymer Science, 2012, 124, 1456-1463.	2.6	11
188	Durable polytetrafluoroethylene composites in harsh environments: Tribology and corrosion investigation. Journal of Applied Polymer Science, 2012, 124, 4307-4314.	2.6	9
189	Single-crystalline and reactive facets exposed anatase TiO2 nanofibers with enhanced photocatalytic properties. Journal of Materials Chemistry, 2011, 21, 6718.	6.7	31
190	Theoretical Investigation of CO Adsorption on Clean and Hydroxylated TiO ₂ -B (100) Surfaces. Journal of Physical Chemistry C, 2011, 115, 8622-8629.	3.1	23
191	An enhanced CdS/TiO2 photocatalyst with high stability and activity: Effect of mesoporous substrate and bifunctional linking molecule. Journal of Materials Chemistry, 2011, 21, 4945.	6.7	156
192	Photosynthesis-inspired design approach of a liquid phase heterogeneous photoreactor. Green Chemistry, 2011, 13, 1784.	9.0	7
193	Diffusion of water molecules confined in slits of rutile TiO2(110) and graphite(0001). Fluid Phase Equilibria, 2011, 302, 316-320.	2.5	59
194	Theoretical limiting concentration for mineralization of trichloromethane and dichloromethane in aqueous solutions by AOPs. Science China Chemistry, 2011, 54, 559-564.	8.2	0
195	Non-equilibrium thermodynamics analysis and its application in interfacial mass transfer. Science China Chemistry, 2011, 54, 1659-1666.	8.2	24
196	Dissociation of methanol on hydroxylated TiO2-B (100) surface: Insights from first principle DFT calculation. Catalysis Today, 2011, 165, 32-40.	4.4	14
197	Thermodynamic analysis of the theoretical energy consumption in the removal of organic contaminants by physical methods. Science China Chemistry, 2010, 53, 671-676.	8.2	7
198	Modeling of specific structure crystallization coupling with dissolution. Frontiers of Chemical Engineering in China, 2010, 4, 52-56.	0.6	2

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#	ARTICLE	IF	CITATIONS
199	Direct Electrochemistry and Electrocatalysis of Hemoglobin–TiO ₂ Whisker Film Modified Glassy Carbon Electrode. Electroanalysis, 2010, 22, 668-672.	2.9	12
200	Modelling of mass transfer coupling with crystallization kinetics in microscale. Chemical Engineering Science, 2010, 65, 2649-2655.	3.8	22
201	Comparative Study of Tribological Properties of Different Fibers Reinforced PTFE/PEEK Composites at Elevated Temperatures. Tribology Transactions, 2010, 53, 189-194.	2.0	41
202	Carbon titania mesoporous composite whisker as stable supercapacitor electrode material. Journal of Materials Chemistry, 2010, 20, 7645.	6.7	47
203	Melting and Freezing of Au Nanoparticles Confined in Armchair Single-Walled Carbon Nanotubes. Journal of Physical Chemistry C, 2010, 114, 2896-2902.	3.1	41
204	A shortcut for evaluating activities of TiO2 facets: water dissociative chemisorption on TiO2-B (100) and (001). Physical Chemistry Chemical Physics, 2010, 12, 8721.	2.8	37
205	Mineralization of Trace Nitro/Chloro/Methyl/Amino-Aromatic Contaminants in Wastewaters by Advanced Oxidation Processes. Industrial & Engineering Chemistry Research, 2010, 49, 6243-6249.	3.7	6
206	Highly Thermal Stable and Highly Crystalline Anatase TiO ₂ for Photocatalysis. Environmental Science & Technology, 2009, 43, 5423-5428.	10.0	103
207	Stability of Pt nanoparticles and enhanced photocatalytic performance in mesoporous Pt-(anatase/TiO2(B)) nanoarchitecture. Journal of Materials Chemistry, 2009, 19, 7055.	6.7	72
208	Anomalous Hydration Shell Order of Na ⁺ and K ⁺ inside Carbon Nanotubes. Nano Letters, 2009, 9, 989-994.	9.1	113
209	Molecular Dynamics Study of Pore Inner Wall Modification Effect in Structure of Water Molecules Confined in Single-Walled Carbon Nanotubes. Journal of Physical Chemistry C, 2009, 113, 882-889.	3.1	25
210	Splitting behavior and structural transformation process of K2Ti6O13 whiskers under hydrothermal conditions. Journal of Materials Science, 2008, 43, 155-163.	3.7	8
211	Enhanced Photocatalytic Activity in Anatase/TiO ₂ (B) Coreâ^'Shell Nanofiber. Journal of Physical Chemistry C, 2008, 112, 20539-20545.	3.1	181
212	Molecular Dynamics Study on Diameter Effect in Structure of Ethanol Molecules Confined in Single-Walled Carbon Nanotubesâ€. Journal of Physical Chemistry C, 2007, 111, 15677-15685.	3.1	48
213	Tribological and mechanical properties of carbon-nanofiber-filled polytetrafluoroethylene composites. Journal of Applied Polymer Science, 2007, 104, 2430-2437.	2.6	38
214	Large-Scale Hydrothermal Synthesis of Twinned Rutile Titania. Journal of the American Ceramic Society, 2007, 90, 319-321.	3.8	10
215	Tribological properties of PTFE composites filled with surface-treated carbon fiber. Journal of Materials Science, 2007, 42, 8465-8469.	3.7	35
216	Reaction and Crystallization Mechanism of Potassium Dititanate Fibers Synthesized by Low-Temperature Calcination. Crystal Growth and Design, 2005, 5, 1399-1404.	3.0	22

#	Article	IF	CITATIONS
217	High Quality and Yield in Potassium Titanate Whiskers Synthesized by Calcination from Hydrous Titania. Journal of the American Ceramic Society, 2004, 87, 326-330.	3.8	45
218	Shape and size characterization of potassium titanate fibers by image analysis. Journal of Materials Science, 2004, 39, 469-476.	3.7	11
219	A controllable approach for the synthesis of titanate derivatives of potassium tetratitanate fiber. Journal of Materials Science, 2004, 39, 3745-3750.	3.7	34
220	Low-temperature controllable calcination syntheses of potassium dititanate. AICHE Journal, 2004, 50, 1568-1577.	3.6	29
221	A NEW THERMODYNAMIC MODEL FOR AQUEOUS ALKALI-EARTH METAL SOLUTION BASED ON THE SYNERGISTIC ACTION OF ASSOCIATION AND HYDRATION UNDER SUPERCRITICAL CONDITIONS. , 2004, , .		0
222	Atomic force microscopy (AFM) study on potassium hexatitanate whisker (K2O·6TiO2). Journal of Materials Science, 2003, 38, 3641-3646.	3.7	12
223	Molecular dynamics study on ionic hydration. Fluid Phase Equilibria, 2002, 194-197, 257-270.	2.5	161
224	Study on the formation and growth of potassium titanate whiskers. Journal of Materials Science, 2002, 37, 3035-3043.	3.7	64
225	Elastic interlayer toughening of potassium titanate whiskers-nylon66 composites and their fractal research. Journal of Applied Polymer Science, 2001, 82, 368-374.	2.6	49
226	Determination of dissolution kinetics of K2SO4 crystal with ion selective electrode. Chemical Engineering Science, 2001, 56, 7017-7024.	3.8	23
227	Naturally dispersed ash components in bio-carbon composites: integrated ammonia nitrogen removal and specific surface area augment. Biomass Conversion and Biorefinery, 0, , 1.	4.6	1
228	Mass Transfer Behavior of Methane in Porous Carbon Materials. AICHE Journal, 0, , e17521.	3.6	3
229	Atomistic insight into the lubrication of glycerol aqueous solution: The role of the solid interfaceâ€induced microstructure of fluid molecules. AICHE Journal, 0, , .	3.6	3
230	Screening ionic liquids for developing advanced immobilization technology for CO2 separation. Frontiers in Chemistry, 0, 10, .	3.6	1