

Costas Tsouris

List of Publications by Year in descending order

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218
papers

9,681
citations

50170

46
h-index

45213

90
g-index

240
all docs

240
docs citations

240
times ranked

8739
citing authors

#	ARTICLE	IF	CITATIONS
1	The ocean's nuclear energy reserve. <i>Nature Sustainability</i> , 2022, 5, 13-14.	11.5	24
2	2022 roadmap on 3D printing for energy. <i>JPhys Energy</i> , 2022, 4, 011501.	2.3	17
3	Electroprecipitation Mechanism Enabling Silica and Hardness Removal through Aluminum-Based Electrocoagulation. <i>ACS ES&T Engineering</i> , 2022, 2, 1200-1210.	3.7	8
4	Silver-functionalized silica aerogel for iodine capture: Adsorbent aging by NO ₂ in spent nuclear fuel reprocessing off-gas. <i>Microporous and Mesoporous Materials</i> , 2022, 336, 111898.	2.2	11
5	Charging of radioactive and environmental airborne particles. <i>Journal of Environmental Radioactivity</i> , 2022, 248, 106887.	0.9	2
6	Solar-thermal membrane for dewatering aqueous organic-acid solutions. <i>Separation and Purification Technology</i> , 2021, 267, 118232.	3.9	1
7	Carbon dioxide capture with aqueous amino acids: Mechanistic study of amino acid regeneration by guanidine crystallization and process intensification. <i>Separation and Purification Technology</i> , 2021, 271, 118839.	3.9	16
8	A Process Intensification Approach for CO ₂ Absorption Using Amino Acid Solutions and a Guanidine Compound. <i>Energies</i> , 2021, 14, 5821.	1.6	8
9	Process intensification of CO ₂ capture by low-aqueous solvent. <i>Chemical Engineering Journal</i> , 2021, 426, 131240.	6.6	18
10	Rate-Based Absorption Modeling for Postcombustion CO ₂ Capture with Additively Manufactured Structured Packing. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 14845-14855.	1.8	6
11	Comparison of Long-Term Bioenergy with Carbon Capture and Storage to Reference Power Generation Technologies Using CO ₂ Avoidance Cost in the U.S.. <i>Energies</i> , 2021, 14, 7026.	1.6	3
12	Corrosion Prevention of Additively Manufactured Aluminum Packing Devices Developed for Process Intensification of CO ₂ Capture by Aqueous Amines. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 17036-17044.	1.8	5
13	Algorithms and algebraic solutions of decay chain differential equations for stable and unstable nuclide fractionation. <i>Computer Physics Communications</i> , 2020, 246, 106907.	3.0	5
14	Uranium Recovery from Seawater Using Amidoxime-Based Braided Polymers Synthesized from Acrylic Fibers. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 13988-13996.	1.8	9
15	Capture of Iodine from Nuclear-Fuel-Reprocessing Off-Gas: Influence of Aging on a Reduced Silver Mordenite Adsorbent after Exposure to NO/NO ₂ . <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 49680-49693.	4.0	24
16	The Economic Accessibility of CO ₂ Sequestration through Bioenergy with Carbon Capture and Storage (BECCS) in the US. <i>Land</i> , 2020, 9, 299.	1.2	11
17	Magnetic Sorbent for the Removal of Selenium(IV) from Simulated Industrial Wastewaters: Determination of Column Kinetic Parameters. <i>Water (Switzerland)</i> , 2020, 12, 1234.	1.2	5
18	Process intensification of CO ₂ absorption using a 3D printed intensified packing device. <i>AIChE Journal</i> , 2020, 66, e16285.	1.8	16

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19	Additively manufactured packed bed device for process intensification of CO ₂ absorption and other chemical processes. <i>Chemical Engineering Journal</i> , 2020, 388, 124092.	6.6	31
20	Optimal conditions for efficient flow-electrode capacitive deionization. <i>Separation and Purification Technology</i> , 2020, 240, 116626.	3.9	32
21	Continuous-Flow Centrifugal Solid/Liquid Separation for the Recovery of Rare-Earth Elements Containing Particles from Phosphoric Acid Sludge. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 21901-21913.	1.8	10
22	Forward of special issues on separations for energy applications. <i>Separation Science and Technology</i> , 2019, 54, 1879-1879.	1.3	0
23	Adsorbents and adsorption models for capture of Kr and Xe gas mixtures in fixed-bed columns. <i>Chemical Engineering Journal</i> , 2019, 375, 122073.	6.6	9
24	Modeling Sulfur Poisoning of Palladium Membranes Used for Hydrogen Separation. <i>International Journal of Chemical Engineering</i> , 2019, 2019, 1-12.	1.4	7
25	Extraction Chromatographic Materials for Clean Hydrometallurgical Separation of Rare-Earth Elements Using Diglycolamide Extractants. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 20081-20089.	1.8	19
26	Energy-Efficient CO ₂ Capture from Flue Gas by Absorption with Amino Acids and Crystallization with a Bis-Iminoguanidine. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 10510-10515.	1.8	19
27	CO ₂ absorption from simulated flue gas in a bubble column. <i>Separation Science and Technology</i> , 2019, 54, 2034-2046.	1.3	4
28	Determination of reactive mass transfer coefficients for CO ₂ absorption predictions. <i>Separation Science and Technology</i> , 2019, 54, 2026-2033.	1.3	1
29	3D printed structures for optimized carbon capture technology in packed bed columns. <i>Separation Science and Technology</i> , 2019, 54, 2047-2058.	1.3	29
30	Simulation of carbon dioxide absorption by amino acids in two-phase batch and bubble column reactors. <i>Separation Science and Technology</i> , 2019, 54, 2013-2025.	1.3	3
31	Potential limits of capacitive deionization and membrane capacitive deionization for water electrolysis. <i>Separation Science and Technology</i> , 2019, 54, 2112-2125.	1.3	16
32	Magnetic adsorbents for selective removal of selenite from contaminated water. <i>Separation Science and Technology</i> , 2019, 54, 2138-2146.	1.3	10
33	Carbon polyaniline capacitive deionization electrodes with stable cycle life. <i>Desalination</i> , 2019, 464, 25-32.	4.0	32
34	Seawater desalination by over-potential membrane capacitive deionization: Opportunities and hurdles. <i>Chemical Engineering Journal</i> , 2019, 357, 103-111.	6.6	90
35	Enhanced Water Desalination by Increasing the Electroconductivity of Carbon Powders for High-Performance Flow-Electrode Capacitive Deionization. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 1085-1094.	3.2	82
36	Electrosorption of organic acids from aqueous bio-oil and conversion into hydrogen via microbial electrolysis cells. <i>Renewable Energy</i> , 2018, 125, 21-31.	4.3	25

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37	Influence of hydrophilic groups and metal-ion adsorption on polymer-chain conformation of amidoxime-based uranium adsorbents. <i>Journal of Colloid and Interface Science</i> , 2018, 524, 399-408.	5.0	27
38	Temperature Dependence of Uranium and Vanadium Adsorption on Amidoxime-Based Adsorbents in Natural Seawater. <i>ChemistrySelect</i> , 2018, 3, 843-848.	0.7	32
39	First-Principles Integrated Adsorption Modeling for Selective Capture of Uranium from Seawater by Polyamidoxime Sorbent Materials. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 12580-12593.	4.0	53
40	Carbon Dioxide Absorption Modeling for Off-Gas Treatment in the Nuclear Fuel Cycle. <i>International Journal of Chemical Engineering</i> , 2018, 2018, 1-11.	1.4	6
41	Efficient Conversion of Aqueous-Waste-Carbon Compounds Into Electrons, Hydrogen, and Chemicals via Separations and Microbial Electrocatalysis. <i>Frontiers in Energy Research</i> , 2018, 6, .	1.2	12
42	Uranium Resource Recovery from Desalination Plant Feed and Reject Water Using Amidoxime Functionalized Adsorbent. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 17237-17244.	1.8	28
43	One- and Two-Equation Models to Simulate Ion Transport in Charged Porous Electrodes. <i>Colloids and Interfaces</i> , 2018, 2, 4.	0.9	2
44	Studying the impact of radioactive charging on the microphysical evolution and transport of radioactive aerosols with the TOMAS-RC v1 framework. <i>Journal of Environmental Radioactivity</i> , 2018, 192, 150-159.	0.9	1
45	Uranium extraction: Fuel from seawater. <i>Nature Energy</i> , 2017, 2, .	19.8	74
46	Influence of Current Velocity on Uranium Adsorption from Seawater Using an Amidoxime-Based Polymer Fiber Adsorbent. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 2205-2211.	1.8	26
47	Surface transport processes in charged porous media. <i>Journal of Colloid and Interface Science</i> , 2017, 498, 91-104.	5.0	5
48	Modular Chemical Process Intensification: A Review. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2017, 8, 359-380.	3.3	89
49	Contribution of acidic components to the total acid number (TAN) of bio-oil. <i>Fuel</i> , 2017, 200, 171-181.	3.4	32
50	Incorporating radioactive decay into charging and coagulation of multicomponent radioactive aerosols. <i>Journal of Aerosol Science</i> , 2017, 114, 283-300.	1.8	9
51	pH Neutralization of Aqueous Bio-Oil from Switchgrass Intermediate Pyrolysis Using Process Intensification Devices. <i>Energy & Fuels</i> , 2017, 31, 9455-9464.	2.5	7
52	A mechanistic modeling framework for gas-phase adsorption kinetics and fixed-bed transport. <i>AIChE Journal</i> , 2017, 63, 5029-5043.	1.8	8
53	Adsorption Equilibrium and Modeling of Water Vapor on Reduced and Unreduced Silver-Exchanged Mordenite. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 8095-8102.	1.8	14
54	Amidoxime Polymers for Uranium Adsorption: Influence of Comonomers and Temperature. <i>Materials</i> , 2017, 10, 1268.	1.3	39

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55	Novel poly(imide dioxime) sorbents: Development and testing for enhanced extraction of uranium from natural seawater. <i>Chemical Engineering Journal</i> , 2016, 298, 125-135.	6.6	130
56	Separation of Switchgrass Bio-Oil by Water/Organic Solvent Addition and pH Adjustment. <i>Energy & Fuels</i> , 2016, 30, 2164-2173.	2.5	39
57	Modeling the Capacitive Deionization Process in Dual-Porosity Electrodes. <i>Transport in Porous Media</i> , 2016, 113, 173-205.	1.2	8
58	Charging and coagulation of radioactive and nonradioactive particles in the atmosphere. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 3449-3462.	1.9	11
59	The Uranium from Seawater Program at the Pacific Northwest National Laboratory: Overview of Marine Testing, Adsorbent Characterization, Adsorbent Durability, Adsorbent Toxicity, and Deployment Studies. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 4264-4277.	1.8	107
60	Uranium Adsorbent Fibers Prepared by Atom-Transfer Radical Polymerization from Chlorinated Polypropylene and Polyethylene Trunk Fibers. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 4130-4138.	1.8	46
61	Analysis and simulation of a blue energy cycle. <i>Renewable Energy</i> , 2016, 91, 249-260.	4.3	14
62	Uranium Adsorbent Fibers Prepared by Atom-Transfer Radical Polymerization (ATRP) from Poly(vinyl Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Engineering Chemistry Research, 2016, 55, 4139-4148.	1.8	128
63	Experiments and Modeling of Uranium Uptake by Amidoxime-Based Adsorbent in the Presence of Other Ions in Simulated Seawater. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 4241-4248.	1.8	34
64	A Poly(acrylonitrile)-Functionalized Porous Aromatic Framework Synthesized by Atom-Transfer Radical Polymerization for the Extraction of Uranium from Seawater. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 4125-4129.	1.8	58
65	Enhancing Uranium Uptake by Amidoxime Adsorbent in Seawater: An Investigation for Optimum Alkaline Conditioning Parameters. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 4294-4302.	1.8	58
66	Alternative Alkaline Conditioning of Amidoxime Based Adsorbent for Uranium Extraction from Seawater. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 4303-4312.	1.8	55
67	A generalized procedure for the prediction of multicomponent adsorption equilibria. <i>AIChE Journal</i> , 2015, 61, 2600-2610.	1.8	6
68	Surface charge accumulation of particles containing radionuclides in open air. <i>Journal of Environmental Radioactivity</i> , 2015, 143, 91-99.	0.9	14
69	Transport of Ions in Mesoporous Carbon Electrodes during Capacitive Deionization of High-Salinity Solutions. <i>Langmuir</i> , 2015, 31, 1038-1047.	1.6	56
70	Generalized gas-liquid adsorption modeling: Single-component equilibria. <i>Fluid Phase Equilibria</i> , 2015, 388, 169-181.	1.4	17
71	The role of electrostatic charge in the adhesion of spherical particles onto planar surfaces in atmospheric systems. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 481, 583-590.	2.3	19
72	Isotherms for Water Adsorption on Molecular Sieve 3A: Influence of Cation Composition. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 10442-10448.	1.8	43

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73	Volume Averaging Study of the Capacitive Deionization Process in Homogeneous Porous Media. Transport in Porous Media, 2015, 109, 61-80.	1.2	19
74	Enhancement of electrosorption rates using low-amplitude, high-frequency, pulsed electrical potential. Separation and Purification Technology, 2014, 129, 18-24.	3.9	10
75	Influence of Radioactivity on Surface Charging and Aggregation Kinetics of Particles in the Atmosphere. Environmental Science & Technology, 2014, 48, 182-189.	4.6	16
76	Uptake of Uranium from Seawater by Amidoxime-Based Polymeric Adsorbent: Field Experiments, Modeling, and Updated Economic Assessment. Industrial & Engineering Chemistry Research, 2014, 53, 6076-6083.	1.8	185
77	Uranium recovery from seawater: development of fiber adsorbents prepared via atom-transfer radical polymerization. Journal of Materials Chemistry A, 2014, 2, 14674-14681.	5.2	138
78	Interaction forces between spores and planar surfaces in aqueous solutions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 443, 80-87.	2.3	3
79	Electrical Double-Layer Formation. , 2014, , 1246-1259.		1
80	Recovery of Uranium from Seawater: A Review of Current Status and Future Research Needs. Separation Science and Technology, 2013, 48, 367-387.	1.3	400
81	Influence of temperature on the electrosorption of ions from aqueous solutions using mesoporous carbon materials. Separation and Purification Technology, 2013, 116, 206-213.	3.9	24
82	Seawater Uranium Sorbents: Preparation from a Mesoporous Copolymer Initiator by Atom-Transfer Radical Polymerization. Angewandte Chemie - International Edition, 2013, 52, 13458-13462.	7.2	222
83	Polymer-coated nanoporous carbons for trace seawater uranium adsorption. Science China Chemistry, 2013, 56, 1510-1515.	4.2	44
84	Neutron imaging of ion transport in mesoporous carbon materials. Physical Chemistry Chemical Physics, 2013, 15, 11740.	1.3	17
85	Influence of Surface Potential on the Adhesive Force of Radioactive Gold Surfaces. Langmuir, 2013, 29, 11876-11883.	1.6	11
86	Characterization of Uranium Uptake Kinetics from Seawater in Batch and Flow-Through Experiments. Industrial & Engineering Chemistry Research, 2013, 52, 9433-9440.	1.8	72
87	Gas Production from Hydrate-Bearing Sediments: The Role of Fine Particles. Energy & Fuels, 2012, 26, 480-487.	2.5	111
88	Interaction of Silica Nanoparticles with a Flat Silica Surface through Neutron Reflectometry. Environmental Science & Technology, 2012, 46, 4532-4538.	4.6	3
89	Scanning surface potential microscopy of spore adhesion on surfaces. Colloids and Surfaces B: Biointerfaces, 2012, 92, 271-276.	2.5	20
90	Effects of operating conditions on internal resistances in enzyme fuel cells studied via electrochemical impedance spectroscopy. Journal of Power Sources, 2012, 201, 59-65.	4.0	7

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91	Reaction Kinetics of CO ₂ Carbonation with Mg-Rich Minerals. Journal of Physical Chemistry A, 2011, 115, 7638-7644.	1.1	28
92	Friction and Adhesion Forces of <i>Bacillus thuringiensis</i> Spores on Planar Surfaces in Atmospheric Systems. Langmuir, 2011, 27, 14975-14981.	1.6	15
93	Investigating the Role of the Electrostatic Force in Spore Adhesion by Microscopy. Microscopy and Microanalysis, 2011, 17, 232-233.	0.2	0
94	Mesoporous Carbon for Capacitive Deionization of Saline Water. Environmental Science & Technology, 2011, 45, 10243-10249.	4.6	351
95	Sustainable development and energy geotechnology – Potential roles for geotechnical engineering. KSCE Journal of Civil Engineering, 2011, 15, 611-621.	0.9	41
96	Quantifying the water content in the cathode of enzyme fuel cells via neutron imaging. Journal of Power Sources, 2011, 196, 1769-1775.	4.0	8
97	Influence of radioactivity on surface interaction forces. Journal of Colloid and Interface Science, 2010, 350, 595-598.	5.0	14
98	Assessment of the Effects of Flow Rate and Ionic Strength on the Performance of an Air-Cathode Microbial Fuel Cell Using Electrochemical Impedance Spectroscopy. Energies, 2010, 3, 592-606.	1.6	57
99	Understanding Long-Term Changes in Microbial Fuel Cell Performance Using Electrochemical Impedance Spectroscopy. Environmental Science & Technology, 2010, 44, 2740-2745.	4.6	134
100	Adhesion of Spores of <i>Bacillus thuringiensis</i> on a Planar Surface. Environmental Science & Technology, 2010, 44, 290-296.	4.6	20
101	Is Carbon Capture and Storage Really Needed?. Environmental Science & Technology, 2010, 44, 4042-4045.	4.6	24
102	Preparation of activated mesoporous carbons for electrosorption of ions from aqueous solutions. Journal of Materials Chemistry, 2010, 20, 4602.	6.7	121
103	Production of Biodiesel at the Kinetic Limit in a Centrifugal Reactor/Separator. Industrial & Engineering Chemistry Research, 2010, 49, 3160-3169.	1.8	25
104	Hierarchical ordered mesoporous carbon from phloroglucinol-glyoxal and its application in capacitive deionization of brackish water. Journal of Materials Chemistry, 2010, 20, 8674.	6.7	169
105	The Role of the Electrostatic Force in Spore Adhesion. Environmental Science & Technology, 2010, 44, 6209-6214.	4.6	29
106	Investigating microbial fuel cell bioanode performance under different cathode conditions. Biotechnology Progress, 2009, 25, 1630-1636.	1.3	16
107	Synthesis and characterization of anodized titanium-oxide nanotube arrays. Journal of Materials Science, 2009, 44, 2820-2827.	1.7	30
108	Carbon dioxide hydrate particles for ocean carbon sequestration. Energy Procedia, 2009, 1, 4937-4944.	1.8	15

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109	Multiphase, Microdispersion Reactor for the Continuous Production of Methane Gas Hydrate. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 6448-6452.	1.8	10
110	Scanning Surface Potential Microscopy of Spores on Planar Surfaces. <i>Microscopy and Microanalysis</i> , 2009, 15, 1132-1133.	0.2	1
111	A microbial fuel cell operating at low pH using the acidophile <i>Acidiphilium cryptum</i> . <i>Biotechnology Letters</i> , 2008, 30, 1367-1372.	1.1	95
112	Drag coefficient and settling velocity for particles of cylindrical shape. <i>Powder Technology</i> , 2008, 183, 314-322.	2.1	91
113	Hydrogen transport in composite inorganic membranes. <i>Journal of Membrane Science</i> , 2008, 312, 132-142.	4.1	20
114	A pilot-scale continuous-jet hydrate reactor. <i>Chemical Engineering Journal</i> , 2008, 135, 71-77.	6.6	27
115	Formation and behavior of composite CO ₂ hydrate particles in a high-pressure water tunnel facility. <i>Chemical Engineering Science</i> , 2008, 63, 3235-3248.	1.9	11
116	Molecular-Sieving Capabilities of Mesoporous Carbon Membranes. <i>Journal of Physical Chemistry B</i> , 2008, 112, 8563-8570.	1.2	28
117	Effects of Proton-Exchange Membrane Fuel-Cell Operating Conditions On Charge Transfer Resistances Measured by Electrochemical Impedance Spectroscopy. <i>Separation Science and Technology</i> , 2008, 43, 2307-2320.	1.3	19
118	Comparison between Effective Electrode/Electrolyte Interface Potential and Applied Potential for Gold Electrodes. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 3525-3531.	1.8	6
119	Electrosorption selectivity of ions from mixtures of electrolytes inside nanopores. <i>Journal of Chemical Physics</i> , 2008, 129, 224703.	1.2	60
120	Monte Carlo simulation of electrical double-layer formation from mixtures of electrolytes inside nanopores. <i>Journal of Chemical Physics</i> , 2008, 128, 044705.	1.2	35
121	Scaled-Up Ocean Injection of CO ₂ Hydrate Composite Particles. <i>Energy & Fuels</i> , 2007, 21, 3300-3309.	2.5	27
122	Scale-up of a continuous-jet hydrate reactor for CO ₂ ocean sequestration. <i>AIChE Journal</i> , 2007, 53, 1017-1027.	1.8	17
123	Microcantilever sensors with chemically selective coatings of ionic liquids. <i>AIChE Journal</i> , 2007, 53, 2726-2731.	1.8	3
124	Raman spectroscopy of a hydrated CO ₂ /water composite. <i>Journal of Petroleum Science and Engineering</i> , 2007, 56, 65-74.	2.1	8
125	Electrostatic surface interactions in mixtures of symmetric and asymmetric electrolytes: A Monte Carlo study. <i>Journal of Chemical Physics</i> , 2006, 125, 054716.	1.2	15
126	Room-Temperature Ionic Liquids in Liquid-Liquid Extraction: Effects of Solubility in Aqueous Solutions on Surface Properties. <i>Solvent Extraction and Ion Exchange</i> , 2006, 24, 33-56.	0.8	102

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127	Nanostructures in Separation. , 2006, , 291-322.		0
128	Surfactant effects on the mechanism of particle capture in high-gradient magnetic filtration. Separation and Purification Technology, 2006, 51, 201-209.	3.9	29
129	Electrosorption capacitance of nanostructured carbon-based materials. Journal of Colloid and Interface Science, 2006, 302, 54-61.	5.0	149
130	Dissolution mechanisms of CO ₂ hydrate droplets in deep seawaters. Energy Conversion and Management, 2006, 47, 494-508.	4.4	17
131	Modeling aggregation of colloidal particles. Current Opinion in Colloid and Interface Science, 2005, 10, 123-132.	3.4	64
132	Removal of Micron-Size Droplets from an Air Stream by Means of Electric Fields. Separation Science and Technology, 2005, 40, 367-381.	1.3	4
133	Ocean Disposal of CO ₂ : Conditions for Producing Sinking CO ₂ Hydrate. Journal of Dispersion Science and Technology, 2005, 25, 703-712.	1.3	8
134	Behavior of mixtures of symmetric and asymmetric electrolytes near discretely charged planar surfaces: A Monte Carlo study. Journal of Chemical Physics, 2005, 123, 054703.	1.2	38
135	Like-Charge Attraction: A Combined Electrostatic-Hydrodynamic Approach. Journal of Dispersion Science and Technology, 2005, 25, 585-592.	1.3	0
136	Field Studies on the Formation of Sinking CO ₂ Particles for Ocean Carbon Sequestration: Effects of Injector Geometry on Particle Density and Dissolution Rate and Model Simulation of Plume Behavior. Environmental Science & Technology, 2005, 39, 7287-7293.	4.6	25
137	Separation of CO ₂ from Flue Gas: A Review. Separation Science and Technology, 2005, 40, 321-348.	1.3	1,315
138	Surface Charge Heterogeneities Measured by Atomic Force Microscopy. Environmental Science & Technology, 2005, 39, 6352-6360.	4.6	51
139	Kinetics of soil ozonation: an experimental and numerical investigation. Journal of Contaminant Hydrology, 2004, 72, 227-243.	1.6	25
140	Electric-field effects on interfaces: electrospray and electrocoalescence. Current Opinion in Colloid and Interface Science, 2004, 9, 249-255.	3.4	22
141	Fractal Dimension of Particle Aggregates in Magnetic Fields. Separation Science and Technology, 2004, 39, 2839-2862.	1.3	13
142	Hydrate Composite Particles for Ocean Carbon Sequestration: Field Verification. Environmental Science & Technology, 2004, 38, 2470-2475.	4.6	35
143	Kinetics of soil ozonation: an experimental and numerical investigation*1. Journal of Contaminant Hydrology, 2004, 72, 227-227.	1.6	1
144	Investigation of jet breakup and droplet size distribution of liquid CO ₂ and water systems implications for CO ₂ hydrate formation for ocean carbon sequestration. American Mineralogist, 2004, 89, 1240-1246.	0.9	20

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145	EHD micromixing reactor for particle synthesis. Powder Technology, 2003, 135-136, 302-309.	2.1	17
146	Negatively buoyant CO ₂ -hydrate composite for ocean carbon sequestration. AIChE Journal, 2003, 49, 283-285.	1.8	28
147	Electrohydrodynamic mixing in microchannels. AIChE Journal, 2003, 49, 2181-2186.	1.8	33
148	Copper uptake by silica and iron oxide under high surface coverage conditions: surface charge and sorption equilibrium modeling. Journal of Colloid and Interface Science, 2003, 268, 12-22.	5.0	24
149	Electrosorption capacitance of nanostructured carbon aerogel obtained by cyclic voltammetry. Journal of Electroanalytical Chemistry, 2003, 540, 159-167.	1.9	119
150	CO ₂ Hydrate Composite for Ocean Carbon Sequestration. Environmental Science & Technology, 2003, 37, 3701-3708.	4.6	109
151	Removal of Carbon Dioxide from Flue Gas by Ammonia Carbonation in the Gas Phase. Energy & Fuels, 2003, 17, 69-74.	2.5	84
152	Brownian motion in confinement. Physical Review E, 2003, 68, 021401.	0.8	46
153	Modification of Surface Forces by Metal Ion Adsorption. Journal of Dispersion Science and Technology, 2003, 24, 517-525.	1.3	6
154	Monte Carlo simulations of electrical double-layer formation in nanopores. Journal of Chemical Physics, 2002, 117, 8499-8507.	1.2	53
155	Canonical Monte Carlo simulations of the fluctuating-charge molecular water between charged surfaces. Journal of Chemical Physics, 2002, 117, 337-345.	1.2	30
156	Effects of Applied Electric Fields on Drop-Interface and Drop-Drop Coalescence*. Journal of Dispersion Science and Technology, 2002, 23, 155-166.	1.3	8
157	An Electrochemical Method for the Formation of Magnetite Particles*. Journal of Dispersion Science and Technology, 2002, 23, 569-576.	1.3	29
158	Proton Adsorption and Electrical Double-Layer Formation Inside Charged Platinum Nanochannels. Nano Letters, 2002, 2, 1433-1437.	4.5	10
159	Electrosorption of Ions from Aqueous Solutions by Nanostructured Carbon Aerogel. Journal of Colloid and Interface Science, 2002, 250, 18-27.	5.0	237
160	Agglomeration of magnetic particles and breakup of magnetic chains in surfactant solutions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 204, 63-72.	2.3	18
161	Influence of Metal Ion Sorption on Colloidal Surface Forces Measured by Atomic Force Microscopy. Environmental Science & Technology, 2002, 36, 343-348.	4.6	21
162	Electrosorption of Ions from Aqueous Solutions by Carbon Aerogel: An Electrical Double-Layer Model. Langmuir, 2001, 17, 1961-1969.	1.6	280

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