

T Alan Hatton

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179
papers

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48
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88
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190
ext. papers

9,947
ext. citations

8
avg, IF

6.65
L-index

#	Paper	IF	Citations
179	Nanoemulsions: formation, properties and applications. <i>Soft Matter</i> , 2016 , 12, 2826-41	3.6	658
178	Bilayer Surfactant Stabilized Magnetic Fluids: Synthesis and Interactions at Interfaces. <i>Langmuir</i> , 1999 , 15, 447-453	4	460
177	Synthesis, properties and applications of Janus nanoparticles. <i>Nano Today</i> , 2011 , 6, 286-308	17.9	420
176	Functionalization of monodisperse magnetic nanoparticles. <i>Langmuir</i> , 2007 , 23, 2158-68	4	401
175	Chromium(III) Terephthalate Metal Organic Framework (MIL-101): HF-Free Synthesis, Structure, Polyoxometalate Composites, and Catalytic Properties. <i>Chemistry of Materials</i> , 2012 , 24, 1664-1675	9.6	308
174	Protein separations using colloidal magnetic nanoparticles. <i>Biotechnology Progress</i> , 2003 , 19, 477-84	2.8	258
173	Liquid-Liquid Extraction of Low Molecular-Weight Proteins by Selective Solubilization in Reversed Micelles. <i>Separation Science and Technology</i> , 1987 , 22, 831-841	2.5	225
172	Modeling of Oxygen-Inhibited Free Radical Photopolymerization in a PDMS Microfluidic Device. <i>Macromolecules</i> , 2008 , 41, 8547-8556	5.5	218
171	High-gradient magnetic separation of coated magnetic nanoparticles. <i>AIChE Journal</i> , 2004 , 50, 2835-2843	3.6	201
170	Small-Angle Neutron Scattering Study of PEOBPOBEO Micelle Structure in the Unimer-to-Micelle Transition Region. <i>Langmuir</i> , 1997 , 13, 3659-3664	4	186
169	Preparation and controlled self-assembly of Janus magnetic nanoparticles. <i>Journal of the American Chemical Society</i> , 2007 , 129, 12878-89	16.4	177
168	Model for Formation and Growth of Vesicles in Mixed Anionic/Cationic (SOS/CTAB) Surfactant Systems. <i>Langmuir</i> , 2002 , 18, 7341-7348	4	138
167	Dually Responsive Microgels from Polyether-Modified Poly(acrylic acid): Swelling and Drug Loading. <i>Langmuir</i> , 2002 , 18, 4944-4952	4	130
166	Alkali Metal Nitrate-Promoted High-Capacity MgO Adsorbents for Regenerable CO ₂ Capture at Moderate Temperatures. <i>Chemistry of Materials</i> , 2015 , 27, 1943-1949	9.6	128
165	Photoresponsive Surfactants Exhibiting Unusually Large, Reversible Surface Tension Changes under Varying Illumination Conditions. <i>Langmuir</i> , 2003 , 19, 10764-10773	4	122
164	Water-Based Magnetic Fluids as Extractants for Synthetic Organic Compounds. <i>Industrial & Engineering Chemistry Research</i> , 2002 , 41, 4739-4749	3.9	117
163	Electrochemically-mediated selective capture of heavy metal chromium and arsenic oxyanions from water. <i>Nature Communications</i> , 2018 , 9, 4701	17.4	114

162	Asymmetric Faradaic systems for selective electrochemical separations. <i>Energy and Environmental Science</i> , 2017 , 10, 1272-1283	35.4	111
161	High-Gradient Magnetic Separation of Magnetic Nanoclusters. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 6824-6836	3.9	103
160	Stochastic dynamics simulation of surfactant self-assembly. <i>Journal of Chemical Physics</i> , 1997 , 106, 9850-9857	3.9	100
159	Postsynthetic Functionalization of Mg-MOF-74 with Tetraethylenepentamine: Structural Characterization and Enhanced CO Adsorption. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 11299-11306	9.5	93
158	Redox-electrodes for selective electrochemical separations. <i>Advances in Colloid and Interface Science</i> , 2017 , 244, 6-20	14.3	93
157	Self-assembled nanostructures in ionic liquids facilitate charge storage at electrified interfaces. <i>Nature Materials</i> , 2019 , 18, 1350-1357	27	90
156	On the size and shape of self-assembled micelles. <i>Journal of Chemical Physics</i> , 1997 , 107, 10777-10781	3.9	86
155	Protein refolding in reversed micelles. <i>Biotechnology and Bioengineering</i> , 1990 , 35, 955-65	4.9	84
154	Post-combustion carbon dioxide capture using electrochemically mediated amine regeneration. <i>Energy and Environmental Science</i> , 2013 , 6, 2505	35.4	79
153	Oxygen transfer enhancement in aqueous/perfluorocarbon fermentation systems: I. experimental observations. <i>Biotechnology and Bioengineering</i> , 1990 , 35, 578-85	4.9	77
152	Alkali Nitrates Molten Salt Modified Commercial MgO for Intermediate-Temperature CO ₂ Capture: Optimization of the Li/Na/K Ratio. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 1509-1517	3.9	74
151	Redox-electrolytes for non-flow electrochemical energy storage: A critical review and best practice. <i>Progress in Materials Science</i> , 2019 , 101, 46-89	42.2	73
150	Anion-Selective Redox Electrodes: Electrochemically Mediated Separation with Heterogeneous Organometallic Interfaces. <i>Advanced Functional Materials</i> , 2016 , 26, 3394-3404	15.6	71
149	Colloidal Nanoclusters of MgO Coated with Alkali Metal Nitrates/Nitrites for Rapid, High Capacity CO ₂ Capture at Moderate Temperature. <i>Chemistry of Materials</i> , 2015 , 27, 8153-8161	9.6	70
148	Electrospun carbon nanofiber webs with controlled density of states for sensor applications. <i>Advanced Materials</i> , 2013 , 25, 1309-14	24	70
147	Aerosol filtration using electrospun cellulose acetate fibers. <i>Journal of Materials Science</i> , 2016 , 51, 204-213	4.7	68
146	Multifunctional Electrospun Fabrics via Layer-by-Layer Electrostatic Assembly for Chemical and Biological Protection. <i>Chemistry of Materials</i> , 2010 , 22, 1429-1436	9.6	68
145	Polyamide-imide nanofiltration hollow fiber membranes with elongation-induced nano-pore evolution. <i>AIChE Journal</i> , 2010 , 56, 1481-1494	3.6	68

144	Affinity-based reversed micellar protein extraction: I. principles and protein-ligand systems. <i>Biotechnology and Bioengineering</i> , 1993 , 42, 1199-208	4.9	68
143	Responsive Stabilization of Nanoparticles for Extreme Salinity and High-Temperature Reservoir Applications. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 19651-8	9.5	62
142	Polyethylenimine-impregnated siliceous mesocellular foam particles as high capacity CO ₂ adsorbents. <i>RSC Advances</i> , 2012 , 2, 6509	3.7	62
141	Electrosorption at functional interfaces: from molecular-level interactions to electrochemical cell design. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 23570-23584	3.6	58
140	Theory of water treatment by capacitive deionization with redox active porous electrodes. <i>Water Research</i> , 2018 , 132, 282-291	12.5	57
139	Quinone Reduction in Ionic Liquids for Electrochemical CO ₂ Separation. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 1394-1405	8.3	56
138	Electrochemically Nanostructured Polyvinylferrocene/Polypyrrole Hybrids with Synergy for Energy Storage. <i>Advanced Functional Materials</i> , 2015 , 25, 4803-4813	15.6	54
137	Spherical Crystallization of Glycine from Monodisperse Microfluidic Emulsions. <i>Crystal Growth and Design</i> , 2012 , 12, 3977-3982	3.5	54
136	Nerve Agent Destruction by Recyclable Catalytic Magnetic Nanoparticles. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 7991-7998	3.9	53
135	Optimal Nutrient Retention during the Thermal Processing of Conduction-Heated Canned Foods: Application of the Distributed Minimum Principle. <i>Journal of Food Science</i> , 1985 , 50, 1312-1321	3.4	53
134	Design of surfactants suitable for protein extraction by reversed micelles. <i>Biotechnology and Bioengineering</i> , 1997 , 54, 26-32	4.9	52
133	Redox-responsive gels with tunable hydrophobicity for controlled solubilization and release of organics. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 1167-74	9.5	51
132	Faradaic electro-swing reactive adsorption for CO ₂ capture. <i>Energy and Environmental Science</i> , 2019 , 12, 3530-3547	35.4	51
131	Nucleation under Soft Confinement: Role of Polymer-Solute Interactions. <i>Crystal Growth and Design</i> , 2012 , 12, 508-517	3.5	48
130	Mechanism-guided design of flow systems for multicomponent reactions: conversion of CO ₂ and olefins to cyclic carbonates. <i>Chemical Science</i> , 2014 , 5, 1227	9.4	47
129	Chemical protection fabrics via surface oximation of electrospun polyacrylonitrile fiber mats. <i>Journal of Materials Chemistry</i> , 2009 , 19, 2432		47
128	Dynamics of self-assembled surfactant systems. <i>Journal of Chemical Physics</i> , 1998 , 108, 2232-2244	3.9	45
127	Thermally Stable Amine-Grafted Adsorbent Prepared by Impregnating 3-Aminopropyltriethoxysilane on Mesoporous Silica for CO ₂ Capture. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 7842-7852	3.9	42

126	Functional magnetic nanoparticles for biodefense and biological threat monitoring and surveillance. <i>Analytical Chemistry</i> , 2009 , 81, 5637-45	7.8	41
125	Extraction behavior of hemoglobin using reversed micelles by dioleoyl phosphoric acid. <i>Biotechnology Progress</i> , 1996 , 12, 793-800	2.8	41
124	Affinity-based reversed micellar protein extraction: II. effect of cosurfactant tail length. <i>Biotechnology and Bioengineering</i> , 1993 , 42, 1209-17	4.9	41
123	Nucleophilic Polymers and Gels in Hydrolytic Degradation of Chemical Warfare Agents. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 22001-11	9.5	40
122	Protein refolding in reversed micelles: Interactions of the protein with micelle components. <i>Biotechnology and Bioengineering</i> , 1990 , 35, 966-75	4.9	40
121	Polyvinylferrocene for noncovalent dispersion and redox-controlled precipitation of carbon nanotubes in nonaqueous media. <i>Langmuir</i> , 2013 , 29, 9626-34	4	39
120	Protein refolding by reversed micelles utilizing solid-liquid extraction technique 1998 , 57, 620-623		39
119	Protein complexation with acrylic polyampholytes. <i>Biotechnology and Bioengineering</i> , 1994 , 44, 1031-9	4.9	39
118	Ion-exchange purification of proteins using magnetic nanoclusters. <i>Biotechnology Progress</i> , 2006 , 22, 1153-62	2.8	38
117	Oxygen transfer enhancement in aqueous/perfluorocarbon fermentation systems: II. Theoretical analysis. <i>Biotechnology and Bioengineering</i> , 1990 , 35, 586-97	4.9	37
116	Surface design and engineering of hierarchical hybrid nanostructures for asymmetric supercapacitors with improved electrochemical performance. <i>Journal of Colloid and Interface Science</i> , 2015 , 447, 282-301	9.3	36
115	Extraction of Proteins and Amino Acids Using Reversed Micelles. <i>ACS Symposium Series</i> , 1987 , 170-183	0.4	35
114	Lithium Recovery from Oil and Gas Produced Water: A Need for a Growing Energy Industry. <i>ACS Energy Letters</i> , 2019 , 4, 1471-1474	20.1	34
113	Enhanced gravimetric CO ₂ capacity and viscosity for ionic liquids with cyanopyrrolide anion. <i>AIChE Journal</i> , 2015 , 61, 2280-2285	3.6	32
112	Microfluidic continuous magnetophoretic protein separation using nanoparticle aggregates. <i>Microfluidics and Nanofluidics</i> , 2011 , 11, 429-438	2.8	32
111	Selective Molecularly Mediated Pseudocapacitive Separation of Ionic Species in Solution. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 32743-32753	9.5	32
110	Electrochemically Mediated Reduction of Nitrosamines by Hemin-Functionalized Redox Electrodes. <i>Environmental Science and Technology Letters</i> , 2017 , 4, 161-167	11	31
109	Redox Interfaces for Electrochemically Controlled Protein Surface Interactions: Bioseparations and Heterogeneous Enzyme Catalysis. <i>Chemistry of Materials</i> , 2017 , 29, 5702-5712	9.6	31

108	Bench-scale demonstration of CO ₂ capture with electrochemically-mediated amine regeneration. <i>RSC Advances</i> , 2014 , 4, 5906	3.7	31
107	Schizophrenic Diblock-Copolymer-Functionalized Nanoparticles as Temperature-Responsive Pickering Emulsifiers. <i>Langmuir</i> , 2017 , 33, 13326-13331	4	30
106	Metallocene/carbon hybrids prepared by a solution process for supercapacitor applications. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 13120	13	30
105	Polymorphism control of nanosized glycine crystals on engineered surfaces. <i>CrystEngComm</i> , 2011 , 13, 1127-1131	3.3	30
104	General reptation and scaling of 2d athermal polymers on close-packed lattices. <i>Journal of Chemical Physics</i> , 1997 , 107, 1269-1278	3.9	30
103	Decomposition of Toxic Environmental Contaminants by Recyclable Catalytic, Superparamagnetic Nanoparticles. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 3296-3303	3.9	30
102	Synthesis and bulk assembly behavior of linear-dendritic rod diblock copolymers. <i>Journal of Polymer Science Part A</i> , 2004 , 42, 2784-2814	2.5	30
101	Alkali Carbonate Molten Salt Coated Calcium Oxide with Highly Improved Carbon Dioxide Capture Capacity. <i>Energy Technology</i> , 2017 , 5, 1328-1336	3.5	29
100	Magnetic Surfactants and Polymers with Gadolinium Counterions for Protein Separations. <i>Langmuir</i> , 2016 , 32, 699-705	4	29
99	A correlation for the estimation of critical micellization concentrations and temperatures of polyols in aqueous solutions. <i>JAOCs, Journal of the American Oil Chemists Society</i> , 1995 , 72, 823-826	1.8	29
98	Turbidimetric Titration Study of the Interaction of Proteins with Acrylic Polyampholytes. <i>Biotechnology Progress</i> , 1995 , 11, 99-103	2.8	29
97	Flue gas CO ₂ capture via electrochemically mediated amine regeneration: System design and performance. <i>Applied Energy</i> , 2019 , 255, 113879	10.7	28
96	Energetics of electrochemically mediated amine regeneration process for flue gas CO ₂ capture. <i>International Journal of Greenhouse Gas Control</i> , 2019 , 82, 48-58	4.2	27
95	Degradation of Chemical Threats by Brominated Polymer Networks. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 18761-18774	3.9	27
94	Extraction and activity of chymotrypsin using AOT-DOLPA mixed reversed micellar systems. <i>Biotechnology Progress</i> , 1998 , 14, 729-34	2.8	27
93	Functional Organic-Inorganic Colloids Modified by Iodoxybenzoic Acid. <i>Chemistry of Materials</i> , 2008 , 20, 2001-2008	9.6	27
92	Destabilization of Oil-in-Water Emulsions Stabilized by Non-ionic Surfactants: Effect of Particle Hydrophilicity. <i>Langmuir</i> , 2016 , 32, 10694-10698	4	26
91	Electrospun magnetic carbon composite fibers: Synthesis and electromagnetic wave absorption characteristics. <i>Journal of Applied Polymer Science</i> , 2013 , 127, 4288-4295	2.9	26

90	Electrochemically mediated carbon dioxide separation with quinone chemistry in salt-concentrated aqueous media. <i>Nature Communications</i> , 2020 , 11, 2278	17.4	24
89	Advances in electrospun carbon fiber-based electrochemical sensing platforms for bioanalytical applications. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 1307-26	4.4	24
88	Highly Selective, Kinetically Driven Polymorphic Selection in Microfluidic Emulsion-Based Crystallization and Formulation. <i>Crystal Growth and Design</i> , 2015 , 15, 212-218	3.5	24
87	Aldehyde Self-Condensation Catalysis by Aluminum Aminoterephthalate Metal-Organic Frameworks Modified with Aluminum Isopropoxide. <i>Chemistry of Materials</i> , 2013 , 25, 1636-1642	9.6	24
86	Electrochemically responsive heterogeneous catalysis for controlling reaction kinetics. <i>Journal of the American Chemical Society</i> , 2015 , 137, 1348-55	16.4	23
85	Effect of Temperature on the Dielectric Relaxation in Solvent Mixtures at Microwave Frequencies. <i>Journal of Physical Chemistry A</i> , 1997 , 101, 9892-9899	2.8	23
84	Dynamics of AOT and AOT/Nonionic Cosurfactant Microemulsions. An Iodine-Laser Temperature Jump Study. <i>Langmuir</i> , 2000 , 16, 5892-5899	4	23
83	Rapid Inversion of Surface Charges in Heteroatom-Doped Porous Carbon: A Route to Robust Electrochemical Desalination. <i>Advanced Functional Materials</i> , 2020 , 30, 1909387	15.6	23
82	An Asymmetric Iron-Based Redox-Active System for Electrochemical Separation of Ions in Aqueous Media. <i>Advanced Functional Materials</i> , 2020 , 30, 1910363	15.6	22
81	Superhydrophobic, Surfactant-doped, Conducting Polymers for Electrochemically Reversible Adsorption of Organic Contaminants. <i>Advanced Functional Materials</i> , 2018 , 28, 1801466	15.6	21
80	Kinetics of the Change in Droplet Size during Nanoemulsion Formation. <i>Langmuir</i> , 2016 , 32, 11551-11559	4	20
79	Membrane emulsification and solvent pervaporation processes for the continuous synthesis of functional magnetic and Janus nanobeads. <i>Langmuir</i> , 2012 , 28, 9748-58	4	20
78	Carbon Dioxide Capture Using an Electrochemically Driven Proton Concentration Process. <i>Cell Reports Physical Science</i> , 2020 , 1, 100033	6.1	19
77	CO ₂ Capture Using Electrochemically Mediated Amine Regeneration. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 7087-7096	3.9	19
76	Energetically efficient electrochemically tunable affinity separation using multicomponent polymeric nanostructures for water treatment. <i>Energy and Environmental Science</i> , 2018 , 11, 2954-2963	35.4	19
75	Formation of highly ordered rectangular nanoparticle superlattices by the cooperative self-assembly of nanoparticles and fatty molecules. <i>Langmuir</i> , 2009 , 25, 6407-12	4	19
74	Tri-lithium borate (Li ₃ BO ₃); a new highly regenerable high capacity CO ₂ adsorbent at intermediate temperature. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 22224-22233	13	18
73	Functionalized Magnetic Silica Nanoparticles for Highly Efficient Adsorption of Sm from a Dilute Aqueous Solution. <i>Langmuir</i> , 2018 , 34, 2674-2684	4	17

72	Electrically controlled mass transport into microfluidic droplets from nanodroplet carriers with application in controlled nanoparticle flow synthesis. <i>Lab on A Chip</i> , 2018 , 18, 1330-1340	7.2	17
71	Asymmetric growth in micelles containing oil. <i>Journal of Chemical Physics</i> , 1999 , 110, 9673-9680	3.9	17
70	A dynamic buildup growth model for magnetic particle accumulation on single wires in high-gradient magnetic separation. <i>AIChE Journal</i> , 2012 , 58, 2865-2874	3.6	16
69	Ferrocene-Containing Inverse Opals by Melt-Shear Organization of Core/Shell Particles. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1800428	4.8	16
68	Nonvolatile Colloidal Dispersion of MgO Nanoparticles in Molten Salts for Continuous CO ₂ Capture at Intermediate Temperatures. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 7979-7986	8.3	15
67	Amine-Based Ionic Liquid for CO ₂ Capture and Electrochemical or Thermal Regeneration. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 8356-8361	8.3	15
66	Self-Decontaminating Fibrous Materials Reactive toward Chemical Threats. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 17555-64	9.5	15
65	Dynamics and Morphological Outcomes in Thin-Film Spherical Crystallization of Glycine from Microfluidic Emulsions: Experimental Studies and Modeling. <i>Crystal Growth and Design</i> , 2014 , 14, 3485-3492	3.5	15
64	Remarkably High Heterogeneous Electron Transfer Activity of Carbon-Nanotube-Supported Reduced Graphene Oxide. <i>Chemistry of Materials</i> , 2016 , 28, 7422-7432	9.6	15
63	Microwave-Assisted Oxidation of Electrospun Turbostratic Carbon Nanofibers for Tailoring Energy Storage Capabilities. <i>Chemistry of Materials</i> , 2015 , 27, 4574-4585	9.6	14
62	Bench-scale demonstration of CO capture with an electrochemically driven proton concentration process.. <i>RSC Advances</i> , 2020 , 10, 16832-16843	3.7	14
61	In-situ measurements of temperature distributions in a microwave-heated cavity. <i>AIChE Journal</i> , 2006 , 52, 2727-2735	3.6	14
60	An Electrochemically Mediated Amine Regeneration Process with a Mixed Absorbent for Postcombustion CO Capture. <i>Environmental Science & Technology</i> , 2020 , 54, 8999-9007	10.3	13
59	Molten ionic oxides for CO ₂ capture at medium to high temperatures. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 21827-21834	13	12
58	Toward a Mechanistic Understanding and Optimization of Molten Alkali Metal Borates (AxB _{1-x} O _{1.5x}) for High-Temperature CO ₂ Capture. <i>Chemistry of Materials</i> , 2020 , 32, 348-359	9.6	12
57	Continuous Flow Synthesis of Superparamagnetic Nanoparticles in Reverse Miniemulsion Systems. <i>Colloids and Interface Science Communications</i> , 2019 , 28, 1-4	5.4	12
56	Polydiacetylene functionalized with charged termini for device-free colorimetric detection of malathion. <i>Journal of Colloid and Interface Science</i> , 2018 , 528, 27-35	9.3	11
55	Electrochemically mediated separation for carbon capture. <i>Energy Procedia</i> , 2011 , 4, 860-867	2.3	11

54	Toward smart carbon capture with machine learning. <i>Cell Reports Physical Science</i> , 2021 , 2, 100396	6.1	11
53	Sorbents for the Capture of CO ₂ and Other Acid Gases: A Review. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 9313-9346	3.9	11
52	Droplet microfluidics with a nanoemulsion continuous phase. <i>Lab on A Chip</i> , 2016 , 16, 2694-700	7.2	10
51	Selective adsorption of organic anions in a flow cell with asymmetric redox active electrodes. <i>Water Research</i> , 2020 , 182, 115963	12.5	10
50	Electrochemical CO ₂ capture thermodynamics. <i>International Journal of Greenhouse Gas Control</i> , 2020 , 95, 102878	4.2	9
49	Enhancing Performance Stability of Electrochemically Active Polymers by Vapor-Deposited Organic Networks. <i>Advanced Functional Materials</i> , 2018 , 28, 1706028	15.6	9
48	Photoreponsive Hybrid Nanoparticles with Inherent FRET Activity. <i>Langmuir</i> , 2016 , 32, 5981-9	4	9
47	An Asymmetric Electrochemical System with Complementary Tunability in Hydrophobicity for Selective Separations of Organics. <i>ACS Central Science</i> , 2019 , 5, 1396-1406	16.8	9
46	The potential of molten metal oxide sorbents for carbon capture at high temperature: Conceptual design. <i>Applied Energy</i> , 2020 , 280, 116016	10.7	9
45	Acid Gas Capture at High Temperatures Using Molten Alkali Metal Borates. <i>Environmental Science & Technology</i> , 2020 , 54, 6319-6328	10.3	8
44	Droplet-Templated Antisolvent Spherical Crystallization of Hydrophilic and Hydrophobic Drugs with an in situ Formed Binder. <i>Advanced Healthcare Materials</i> , 2018 , 7, 1700797	10.1	8
43	Enhanced Redox Transformation Efficiency in Unconjugated Electroactive Polymer/Carbon Nanotube Hybrids. <i>Chemistry of Materials</i> , 2016 , 28, 543-548	9.6	8
42	An Electrochemically-mediated Gas Separation Process for Carbon Abatement. <i>Energy Procedia</i> , 2013 , 37, 1172-1179	2.3	8
41	Improved CO ₂ Capture Performance of Electrochemically Mediated Amine Regeneration Processes with Ionic Surfactant Additives. <i>ACS Applied Energy Materials</i> , 2020 , 3, 10823-10830	6.1	8
40	Technoeconomic Analysis of the Electrochemically Mediated Amine Regeneration CO ₂ Capture Process. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 14085-14095	3.9	8
39	Coatable and Resistance-Proof Ionic Liquid for Pathogen Eradication. <i>ACS Nano</i> , 2021 , 15, 966-978	16.7	8
38	Cross-linked Pluronic-g-Polyacrylic acid microgel system for the controlled release of doxorubicin in pharmaceutical formulations. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2017 , 114, 230-238	5.7	7
37	Flue Gas CO ₂ Capture via Electrochemically Mediated Amine Regeneration: Desorption Unit Design and Analysis. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 10120-10129	3.9	7

36	Electrochemical Selective Recovery of Heavy Metal Vanadium Oxyanion from Continuously Flowing Aqueous Streams. <i>ChemSusChem</i> , 2020 , 13, 3865	8.3	7
35	Bench-Scale Demonstration of Molten Alkali Metal Borates for High-Temperature CO ₂ Capture. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 8937-8945	3.9	7
34	Magnetic Lyogels for Uranium Recovery from Wet Phosphoric Acid. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 12644-12654	3.9	7
33	Novel membrane processes for the enantiomeric resolution of tryptophan by selective permeation enhancements. <i>AIChE Journal</i> , 2011 , 57, 1154-1162	3.6	7
32	Oxidation of betrixaban to yield N-nitrosodimethylamine by water disinfectants. <i>Water Research</i> , 2020 , 186, 116309	12.5	7
31	Understanding Material Compatibility in CO Capture Systems Using Molten Alkali Metal Borates. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 51468-51477	9.5	6
30	Energetics of Electrochemically-mediated Amine Regeneration. <i>Energy Procedia</i> , 2014 , 63, 595-604	2.3	6
29	Protein refolding in reversed micelles. 1990. <i>Biotechnology and Bioengineering</i> , 2006 , 95, 285-294	4.9	6
28	Net-Negative Emissions through Molten Sorbents and Bioenergy with Carbon Capture and Storage. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 22582-22596	3.9	5
27	Hierarchical materials synthesis at soft all-aqueous interfaces. <i>Soft Matter</i> , 2012 , 8, 3924	3.6	5
26	Reversed micelles recognize an active protein. <i>Biotechnology Letters</i> , 1996 , 10, 141-144		5
25	Redox-responsive sorbents and mediators for electrochemically based CO ₂ capture. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2021 , 31, 100504	7.9	5
24	DEM-simulation of the magnetic field enhanced cake filtration. <i>AIChE Journal</i> , 2012 , 58, 3633-3644	3.6	4
23	Electrochemically mediated gating membrane with dynamically controllable gas transport. <i>Science Advances</i> , 2020 , 6,	14.3	4
22	Pervaporation of emulsion droplets for the templated assembly of spherical particles: A population balance model. <i>AIChE Journal</i> , 2013 , 59, 3975-3985	3.6	3
21	Tuning the Rate-Dependent Stiffness of Materials by Exploiting Néel Relaxation of Magnetic Nanoparticles. <i>Advanced Functional Materials</i> , 2008 , 18, 462-469	15.6	3
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