

T Alan Hatton

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

179
papers

8,777
citations

48
h-index

88
g-index

190
ext. papers

9,947
ext. citations

8
avg, IF

6.65
L-index

#	Paper	IF	Citations
179	Electrochemical and Molecular Assessment of Quinones as CO ₂ -Binding Redox Molecules for Carbon Capture. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 1389-1399	3.8	1
178	Toward solvent-free continuous-flow electrochemically mediated carbon capture with high-concentration liquid quinone chemistry. <i>Joule</i> , 2022 , 6, 221-239	27.8	2
177	Electrochemically Mediated Sustainable Separations in Water 2022 , 1-62		
176	Spherical and needle shaped magnetic nanoparticles for friction and magnetic stimulated transformation of microorganisms. <i>Nano Structures Nano Objects</i> , 2021 , 26, 100732	5.6	
175	Toward smart carbon capture with machine learning. <i>Cell Reports Physical Science</i> , 2021 , 2, 100396	6.1	11
174	Theory of Faradaically Modulated Redox Active Electrodes for Electrochemically Mediated Selective Adsorption Processes. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 053501	3.9	0
173	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
172	Enabling a Stable High-Power Lithium-Bromine Flow Battery Using Task-Specific Ionic Liquids. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 070542	3.9	2
171	Iron phosphomolybdate complexes in electrocatalytic reduction of aqueous disinfection byproducts. <i>Chemical Engineering Journal</i> , 2021 , 408, 127354	14.7	2
170	Coatable and Resistance-Proof Ionic Liquid for Pathogen Eradication. <i>ACS Nano</i> , 2021 , 15, 966-978	16.7	8
169	Redox-Responsive 2-Aminoanthraquinone Core-Shell Particles for Structural Colors and Carbon Capture. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 4651-4660	4.3	1
168	Advances and challenges in metal ion separation from water. <i>Trends in Chemistry</i> , 2021 , 3, 819-831	14.8	2
167	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
166	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
165	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
164	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
163	Electrochemically mediated carbon dioxide separation with quinone chemistry in salt-concentrated aqueous media. <i>Nature Communications</i> , 2020 , 11, 2278	17.4	24

162	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
161	Bench-scale demonstration of CO capture with an electrochemically driven proton concentration process.. <i>RSC Advances</i> , 2020 , 10, 16832-16843	3.7	14
160	Electrochemical Selective Recovery of Heavy Metal Vanadium Oxyanion from Continuously Flowing Aqueous Streams. <i>ChemSusChem</i> , 2020 , 13, 3865	8.3	7
159	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
158	Carbon Dioxide Capture Using an Electrochemically Driven Proton Concentration Process. <i>Cell Reports Physical Science</i> , 2020 , 1, 100033	6.1	19
157	Capacitive Deionization: Rapid Inversion of Surface Charges in Heteroatom-Doped Porous Carbon: A Route to Robust Electrochemical Desalination (Adv. Funct. Mater. 9/2020). <i>Advanced Functional Materials</i> , 2020 , 30, 2070054	15.6	
156	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
155	CO ₂ Capture Using Electrochemically Mediated Amine Regeneration. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 7087-7096	3.9	19
154	Electrochemical CO ₂ capture thermodynamics. <i>International Journal of Greenhouse Gas Control</i> , 2020 , 95, 102878	4.2	9
153	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
152	Acid Gas Capture at High Temperatures Using Molten Alkali Metal Borates. <i>Environmental Science & Technology</i> , 2020 , 54, 6319-6328	10.3	8
151	Selective adsorption of organic anions in a flow cell with asymmetric redox active electrodes. <i>Water Research</i> , 2020 , 182, 115963	12.5	10
150	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
149	Toward a Mechanistic Understanding and Optimization of Molten Alkali Metal Borates (AxB _{1-x} O _{1.5}) for High-Temperature CO ₂ Capture. <i>Chemistry of Materials</i> , 2020 , 32, 348-359	9.6	12
148	Electrochemically mediated gating membrane with dynamically controllable gas transport. <i>Science Advances</i> , 2020 , 6,	14.3	4
147	Oxidation of betrixaban to yield N-nitrosodimethylamine by water disinfectants. <i>Water Research</i> , 2020 , 186, 116309	12.5	7
146	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
145	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

144	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
143	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
142	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
141	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
140	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
139	Self-assembled nanostructures in ionic liquids facilitate charge storage at electrified interfaces. <i>Nature Materials</i> , 2019 , 18, 1350-1357	27	90
138	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
137	Flue gas CO ₂ capture via electrochemically mediated amine regeneration: System design and performance. <i>Applied Energy</i> , 2019 , 255, 113879	10.7	28
136	Faradaic electro-swing reactive adsorption for CO ₂ capture. <i>Energy and Environmental Science</i> , 2019 , 12, 3530-3547	35.4	51
135	Continuous Flow Synthesis of Superparamagnetic Nanoparticles in Reverse Miniemulsion Systems. <i>Colloids and Interface Science Communications</i> , 2019 , 28, 1-4	5.4	12
134	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
133	Functionalized Magnetic Silica Nanoparticles for Highly Efficient Adsorption of Sm from a Dilute Aqueous Solution. <i>Langmuir</i> , 2018 , 34, 2674-2684	4	17
132	Enhancing Performance Stability of Electrochemically Active Polymers by Vapor-Deposited Organic Networks. <i>Advanced Functional Materials</i> , 2018 , 28, 1706028	15.6	9
131	Theory of water treatment by capacitive deionization with redox active porous electrodes. <i>Water Research</i> , 2018 , 132, 282-291	12.5	57
130	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
129	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
128	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
127	Superhydrophobic, Surfactant-doped, Conducting Polymers for Electrochemically Reversible Adsorption of Organic Contaminants. <i>Advanced Functional Materials</i> , 2018 , 28, 1801466	15.6	21

126	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
125	Magnesium Thiodialkanoates: Dually-Functional Additives to Organic Coatings. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 10992-11004	3.9	
124	Electrochemically-mediated selective capture of heavy metal chromium and arsenic oxyanions from water. <i>Nature Communications</i> , 2018 , 9, 4701	17.4	114
123	Ferrocene-Containing Inverse Opals by Melt-Shear Organization of Core/Shell Particles. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1800428	4.8	16
122	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
121	Electrochemically Mediated Reduction of Nitrosamines by Hemin-Functionalized Redox Electrodes. <i>Environmental Science and Technology Letters</i> , 2017 , 4, 161-167	11	31
120	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
119	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
118	Asymmetric Faradaic systems for selective electrochemical separations. <i>Energy and Environmental Science</i> , 2017 , 10, 1272-1283	35.4	111
117	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
116	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
115	Schizophrenic Diblock-Copolymer-Functionalized Nanoparticles as Temperature-Responsive Pickering Emulsifiers. <i>Langmuir</i> , 2017 , 33, 13326-13331	4	30
114	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
113	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
112	CO-Reactive Ionic Liquid Surfactants for the Control of Colloidal Morphology. <i>Langmuir</i> , 2017 , 33, 7633-7641	7.4	2
111	Magnetic Lyogels for Uranium Recovery from Wet Phosphoric Acid. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 12644-12654	3.9	7
110	Redox-electrodes for selective electrochemical separations. <i>Advances in Colloid and Interface Science</i> , 2017 , 244, 6-20	14.3	93
109	Aerosol filtration using electrospun cellulose acetate fibers. <i>Journal of Materials Science</i> , 2016 , 51, 204-213	2.7	68

108	Destabilization of Oil-in-Water Emulsions Stabilized by Non-ionic Surfactants: Effect of Particle Hydrophilicity. <i>Langmuir</i> , 2016 , 32, 10694-10698	4	26
107	Self-Decontaminating Fibrous Materials Reactive toward Chemical Threats. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 17555-64	9.5	15
106	Kinetics of the Change in Droplet Size during Nanoemulsion Formation. <i>Langmuir</i> , 2016 , 32, 11551-11559	4	20
105	Droplet microfluidics with a nanoemulsion continuous phase. <i>Lab on A Chip</i> , 2016 , 16, 2694-700	7.2	10
104	Photoreponsive Hybrid Nanoparticles with Inherent FRET Activity. <i>Langmuir</i> , 2016 , 32, 5981-9	4	9
103	Sensing and inactivation of Bacillus anthracis Sterne by polymer-bromine complexes. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 6847-6857	5.7	2
102	Magnetic Surfactants and Polymers with Gadolinium Counterions for Protein Separations. <i>Langmuir</i> , 2016 , 32, 699-705	4	29
101	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
100	Nanoemulsions: formation, properties and applications. <i>Soft Matter</i> , 2016 , 12, 2826-41	3.6	658
99	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
98	Enhanced Redox Transformation Efficiency in Unconjugated Electroactive Polymer/Carbon Nanotube Hybrids. <i>Chemistry of Materials</i> , 2016 , 28, 543-548	9.6	8
97	Anion-Selective Redox Electrodes: Electrochemically Mediated Separation with Heterogeneous Organometallic Interfaces. <i>Advanced Functional Materials</i> , 2016 , 26, 3394-3404	15.6	71
96	Redox Electrodes: Anion-Selective Redox Electrodes: Electrochemically Mediated Separation with Heterogeneous Organometallic Interfaces (Adv. Funct. Mater. 20/2016). <i>Advanced Functional Materials</i> , 2016 , 26, 3552-3552	15.6	
95	Selective Molecularly Mediated Pseudocapacitive Separation of Ionic Species in Solution. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 32743-32753	9.5	32
94	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
93	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
92	Electrochemically responsive heterogeneous catalysis for controlling reaction kinetics. <i>Journal of the American Chemical Society</i> , 2015 , 137, 1348-55	16.4	23
91	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

90	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
89	Quinone Reduction in Ionic Liquids for Electrochemical CO ₂ Separation. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 1394-1405	8.3	56
88	Nucleophilic Polymers and Gels in Hydrolytic Degradation of Chemical Warfare Agents. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 22001-11	9.5	40
87	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
86	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
85	Enhanced gravimetric CO ₂ capacity and viscosity for ionic liquids with cyanopyrrolide anion. <i>AICHE Journal</i> , 2015 , 61, 2280-2285	3.6	32
84	Electrochemically Nanostructured Polyvinylferrocene/Polypyrrole Hybrids with Synergy for Energy Storage. <i>Advanced Functional Materials</i> , 2015 , 25, 4803-4813	15.6	54
83	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
82	Degradation of Chemical Threats by Brominated Polymer Networks. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 18761-18774	3.9	27
81	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
80	Bench-scale demonstration of CO ₂ capture with electrochemically-mediated amine regeneration. <i>RSC Advances</i> , 2014 , 4, 5906	3.7	31
79	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
78	Energetics of Electrochemically-mediated Amine Regeneration. <i>Energy Procedia</i> , 2014 , 63, 595-604	2.3	6
77	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
76	Polyvinylferrocene for noncovalent dispersion and redox-controlled precipitation of carbon nanotubes in nonaqueous media. <i>Langmuir</i> , 2013 , 29, 9626-34	4	39
75	Electrospun carbon nanofiber webs with controlled density of states for sensor applications. <i>Advanced Materials</i> , 2013 , 25, 1309-14	24	70
74	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
73	Metalocene/carbon hybrids prepared by a solution process for supercapacitor applications. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 13120	13	30

72	An Electrochemically-mediated Gas Separation Process for Carbon Abatement. <i>Energy Procedia</i> , 2013 , 37, 1172-1179	2.3	8
71	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
70	Post-combustion carbon dioxide capture using electrochemically mediated amine regeneration. <i>Energy and Environmental Science</i> , 2013 , 6, 2505	35.4	79
69	Photo-Controlled Synthesis of Responsive Polymer Capsules from Hybrid Core-Shell Nanoparticles. <i>Macromolecular Symposia</i> , 2013 , 331-332, 129-136	0.8	1
68	Moisture Transport for Reaction Enhancement in Fabrics. <i>Journal of Textiles</i> , 2013 , 2013, 1-8		2
67	Polyethylenimine-impregnated siliceous mesocellular foam particles as high capacity CO ₂ adsorbents. <i>RSC Advances</i> , 2012 , 2, 6509	3.7	62
66	Hierarchical materials synthesis at soft all-aqueous interfaces. <i>Soft Matter</i> , 2012 , 8, 3924	3.6	5
65	Nucleation under Soft Confinement: Role of Polymer-Solute Interactions. <i>Crystal Growth and Design</i> , 2012 , 12, 508-517	3.5	48
64	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
63	Spherical Crystallization of Glycine from Monodisperse Microfluidic Emulsions. <i>Crystal Growth and Design</i> , 2012 , 12, 3977-3982	3.5	54
62	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
61	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
60	DEM-simulation of the magnetic field enhanced cake filtration. <i>AIChE Journal</i> , 2012 , 58, 3633-3644	3.6	4
59	Microfluidic continuous magnetophoretic protein separation using nanoparticle aggregates. <i>Microfluidics and Nanofluidics</i> , 2011 , 11, 429-438	2.8	32
58	Novel membrane processes for the enantiomeric resolution of tryptophan by selective permeation enhancements. <i>AIChE Journal</i> , 2011 , 57, 1154-1162	3.6	7
57	Polymorphism control of nanosized glycine crystals on engineered surfaces. <i>CrystEngComm</i> , 2011 , 13, 1127-1131	3.3	30
56	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
55	Electrochemically mediated separation for carbon capture. <i>Energy Procedia</i> , 2011 , 4, 860-867	2.3	11

54	Synthesis, properties and applications of Janus nanoparticles. <i>Nano Today</i> , 2011 , 6, 286-308	17.9	420
53	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
52	Polyamide-imide nanofiltration hollow fiber membranes with elongation-induced nano-pore evolution. <i>AIChE Journal</i> , 2010 , 56, 1481-1494	3.6	68
51	Functional magnetic nanoparticles for biodefense and biological threat monitoring and surveillance. <i>Analytical Chemistry</i> , 2009 , 81, 5637-45	7.8	41
50	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
49	Chemical protection fabrics via surface oximation of electrospun polyacrylonitrile fiber mats. <i>Journal of Materials Chemistry</i> , 2009 , 19, 2432		47
48	Functional Organic-Inorganic Colloids Modified by Iodoxybenzoic Acid. <i>Chemistry of Materials</i> , 2008 , 20, 2001-2008	9.6	27
47	Modeling of Oxygen-Inhibited Free Radical Photopolymerization in a PDMS Microfluidic Device. <i>Macromolecules</i> , 2008 , 41, 8547-8556	5.5	218
46	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
45	Decomposition of Toxic Environmental Contaminants by Recyclable Catalytic, Superparamagnetic Nanoparticles. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 3296-3303	3.9	30
44	Preparation and controlled self-assembly of Janus magnetic nanoparticles. <i>Journal of the American Chemical Society</i> , 2007 , 129, 12878-89	16.4	177
43	Functionalization of monodisperse magnetic nanoparticles. <i>Langmuir</i> , 2007 , 23, 2158-68	4	401
42	Daniel I.C. Wang: a tribute to an inspirational leader and colleague. <i>Biotechnology and Bioengineering</i> , 2006 , 95, 262-269	4.9	
41	Protein refolding in reversed micelles. 1990. <i>Biotechnology and Bioengineering</i> , 2006 , 95, 285-294	4.9	6
40	In-situ measurements of temperature distributions in a microwave-heated cavity. <i>AIChE Journal</i> , 2006 , 52, 2727-2735	3.6	14
39	Ion-exchange purification of proteins using magnetic nanoclusters. <i>Biotechnology Progress</i> , 2006 , 22, 1153-62	2.8	38
38	Nerve Agent Destruction by Recyclable Catalytic Magnetic Nanoparticles. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 7991-7998	3.9	53
37	High-Gradient Magnetic Separation of Magnetic Nanoclusters. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 6824-6836	3.9	103

36	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
35	High-gradient magnetic separation of coated magnetic nanoparticles. <i>AIChE Journal</i> , 2004 , 50, 2835-2848	3.6	201
34	Protein separations using colloidal magnetic nanoparticles. <i>Biotechnology Progress</i> , 2003 , 19, 477-84	2.8	258
33	Photoresponsive Surfactants Exhibiting Unusually Large, Reversible Surface Tension Changes under Varying Illumination Conditions. <i>Langmuir</i> , 2003 , 19, 10764-10773	4	122
32	Dually Responsive Microgels from Polyether-Modified Poly(acrylic acid): Swelling and Drug Loading. <i>Langmuir</i> , 2002 , 18, 4944-4952	4	130
31	Water-Based Magnetic Fluids as Extractants for Synthetic Organic Compounds. <i>Industrial & Engineering Chemistry Research</i> , 2002 , 41, 4739-4749	3.9	117
30	Model for Formation and Growth of Vesicles in Mixed Anionic/Cationic (SOS/CTAB) Surfactant Systems. <i>Langmuir</i> , 2002 , 18, 7341-7348	4	138
29	Dynamics of AOT and AOT/Nonionic Cosurfactant Microemulsions. An Iodine-Laser Temperature Jump Study. <i>Langmuir</i> , 2000 , 16, 5892-5899	4	23
28	Asymmetric growth in micelles containing oil. <i>Journal of Chemical Physics</i> , 1999 , 110, 9673-9680	3.9	17
27	Bilayer Surfactant Stabilized Magnetic Fluids: Synthesis and Interactions at Interfaces. <i>Langmuir</i> , 1999 , 15, 447-453	4	460
26	Extraction and activity of chymotrypsin using AOT-DOLPA mixed reversed micellar systems. <i>Biotechnology Progress</i> , 1998 , 14, 729-34	2.8	27
25	Protein refolding by reversed micelles utilizing solid-liquid extraction technique 1998 , 57, 620-623		39
24	Dynamics of self-assembled surfactant systems. <i>Journal of Chemical Physics</i> , 1998 , 108, 2232-2244	3.9	45
23	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
22	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
21	On the size and shape of self-assembled micelles. <i>Journal of Chemical Physics</i> , 1997 , 107, 10777-10781	3.9	86
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