

# Julie B Zimmerman

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/4977323/julie-b-zimmerman-publications-by-year.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

161  
papers

7,968  
citations

48  
h-index

84  
g-index

320  
ext. papers

9,503  
ext. citations

9.1  
avg, IF

6.69  
L-index

#	Paper	IF	Citations
161	Synthetic Cooling Agents in US-marketed E-cigarette Refill Liquids and Popular Disposable Cigarettes: Chemical Analysis and Risk Assessment.. <i>Nicotine and Tobacco Research</i> , <b>2022</b> ,	4.9	5
160	Creating cascading non-linear solutions for the UN sustainable development goals through green chemistry. <i>CheM</i> , <b>2021</b> , 7, 2825-2828	16.2	
159	Nano-structural effects on Hematite (FeO) nanoparticle radiofrequency heating. <i>Nano Convergence</i> , <b>2021</b> , 8, 8	9.2	5
158	Copper Recycling Flow Model for the United States Economy: Impact of Scrap Quality on Potential Energy Benefit. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 5485-5495	10.3	8
157	A review of immobilization techniques to improve the stability and bioactivity of lysozyme. <i>Green Chemistry Letters and Reviews</i> , <b>2021</b> , 14, 302-338	4.7	11
156	Selective adsorption of arsenic over phosphate by transition metal cross-linked chitosan. <i>Chemical Engineering Journal</i> , <b>2021</b> , 412, 128582	14.7	14
155	Green Chemistry: A Framework for a Sustainable Future. <i>Organometallics</i> , <b>2021</b> , 40, 1801-1805	3.8	2
154	Green Chemistry: A Framework for a Sustainable Future. <i>Environmental Science and Technology Letters</i> , <b>2021</b> , 8, 487-491	11	2
153	Green Chemistry: A Framework for a Sustainable Future. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2021</b> , 60, 8964-8968	3.9	
152	Quantification of Flavorants and Nicotine in Waterpipe Tobacco and Mainstream Smoke and Comparison to E-cigarette Aerosol. <i>Nicotine and Tobacco Research</i> , <b>2021</b> , 23, 600-604	4.9	3
151	CO 2 process intensification of algae oil extraction to biodiesel. <i>AIChE Journal</i> , <b>2021</b> , 67,	3.6	8
150	Towards resolution of antibacterial mechanisms in metal and metal oxide nanomaterials: a meta-analysis of the influence of study design on mechanistic conclusions. <i>Environmental Science: Nano</i> , <b>2021</b> , 8, 37-66	7.1	7
149	Performance and Sustainability Tradeoffs of Oxidized Carbon Nanotubes as a Cathodic Material in Lithium-Oxygen Batteries. <i>ChemSusChem</i> , <b>2021</b> , 14, 898-908	8.3	5
148	Electrocatalysis for Chemical and Fuel Production: Investigating Climate Change Mitigation Potential and Economic Feasibility. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 3240-3249	10.3	12
147	Moving from Protection to Prosperity: Evolving the U.S. Environmental Protection Agency for the next 50 years. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 2779-2789	10.3	3
146	Utilizing the Broad Electromagnetic Spectrum and Unique Nanoscale Properties for Chemical-Free Water Treatment. <i>Current Opinion in Chemical Engineering</i> , <b>2021</b> , 33, 100709-100709	5.4	0
145	Chemical Adducts of Reactive Flavor Aldehydes Formed in E-Cigarette Liquids Are Cytotoxic and Inhibit Mitochondrial Function in Respiratory Epithelial Cells. <i>Nicotine and Tobacco Research</i> , <b>2020</b> , 22, S25-S34	4.9	12

144	Differences in flavourant levels and synthetic coolant use between USA, EU and Canadian Juul products. <i>Tobacco Control</i> , <b>2020</b> ,	5.3	13
143	Guiding the design space for nanotechnology to advance sustainable crop production. <i>Nature Nanotechnology</i> , <b>2020</b> , 15, 801-810	28.7	49
142	Confronting Racism in Chemistry Journals. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 6131-6133	5.6	
141	Confronting Racism in Chemistry Journals. <i>ACS Applied Polymer Materials</i> , <b>2020</b> , 2, 2496-2498	4.3	
140	Exploring the Mechanisms of Selectivity for Environmentally Significant Oxo-Anion Removal during Water Treatment: A Review of Common Competing Oxo-Anions and Tools for Quantifying Selective Adsorption. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 9769-9790	10.3	44
139	Confronting Racism in Chemistry Journals. <i>Organometallics</i> , <b>2020</b> , 39, 2331-2333	3.8	
138	Update to Our Reader, Reviewer, and Author Communities April 2020. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 5107-5108	4.1	
137	Designing for a green chemistry future. <i>Science</i> , <b>2020</b> , 367, 397-400	33.3	287
136	Tunable Molybdenum Disulfide-Enabled Fiber Mats for High-Efficiency Removal of Mercury from Water. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 18446-18456	9.5	27
135	Update to Our Reader, Reviewer, and Author Communities April 2020. <i>Organometallics</i> , <b>2020</b> , 39, 1665-1666	3.6	
134	Confronting Racism in Chemistry Journals. <i>Journal of Chemical Health and Safety</i> , <b>2020</b> , 27, 198-200	1.7	
133	Superparamagnetic MOF@GO Ni and Co based hybrid nanocomposites as efficient water pollutant adsorbents. <i>Science of the Total Environment</i> , <b>2020</b> , 738, 139213	10.2	19
132	CRISPR-Generated Nrf2a Loss- and Gain-of-Function Mutants Facilitate Mechanistic Analysis of Chemical Oxidative Stress-Mediated Toxicity in Zebrafish. <i>Chemical Research in Toxicology</i> , <b>2020</b> , 33, 426-435	4.35	3
131	Toward Less Hazardous Industrial Compounds: Coupling Quantum Mechanical Computations, Biomarker Responses, and Behavioral Profiles To Identify Bioactivity of S2 Electrophiles in Alternative Vertebrate Models. <i>Chemical Research in Toxicology</i> , <b>2020</b> , 33, 367-380	4	5
130	Doing nano-enabled water treatment right: sustainability considerations from design and research through development and implementation. <i>Environmental Science: Nano</i> , <b>2020</b> , 7, 3255-3278	7.1	5
129	Aerobic oxidation of arsenite to arsenate by Cu(II)/chitosan/O2 in Fenton-like reaction, a XANES investigation. <i>Environmental Science: Water Research and Technology</i> , <b>2020</b> , 6, 2713-2722	4.2	
128	Toward Informed Design of Nanomaterials: A Mechanistic Analysis of Structure-Property-Function Relationships for Faceted Nanoscale Metal Oxides. <i>ACS Nano</i> , <b>2020</b> ,	16.7	12
127	The Green Print: Advancement of Environmental Sustainability in Healthcare. <i>Resources, Conservation and Recycling</i> , <b>2020</b> , 161, 104882	11.9	32

126	Ionic cross-linked polyvinyl alcohol tunes vitrification and cold-crystallization of sugar alcohol for long-term thermal energy storage. <i>Green Chemistry</i> , <b>2020</b> , 22, 5447-5462	10	19
125	Magnetically recoverable carbon-coated iron carbide with arsenic adsorptive removal properties. <i>SN Applied Sciences</i> , <b>2020</b> , 2, 1	1.8	0
124	Establishing structure-property-hazard relationships for multi-walled carbon nanotubes: the role of aggregation, surface charge, and oxidative stress on embryonic zebrafish mortality. <i>Carbon</i> , <b>2019</b> , 155, 587-600	10.4	15
123	Dataset for natural organic matter treatment by tailored. <i>Data in Brief</i> , <b>2019</b> , 25, 104353	1.2	2
122	Mono- and poly-unsaturated triacylglycerol fractionation from <i>Chlorella</i> sp. using supercritical carbon dioxide. <i>Algal Research</i> , <b>2019</b> , 43, 101644	5	3
121	Cradle-to-Gate Greenhouse Gas Emissions for Twenty Anesthetic Active Pharmaceutical Ingredients Based on Process Scale-Up and Process Design Calculations. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 6580-6591	8.3	48
120	Removal of arsenic with reduced graphene oxide-TiO <sub>2</sub> -enabled nanofibrous mats. <i>Chemical Engineering Journal</i> , <b>2019</b> , 375, 122040	14.7	29
119	Controlling metal oxide nanoparticle size and shape with supercritical fluid synthesis. <i>Green Chemistry</i> , <b>2019</b> , 21, 3769-3781	10	33
118	Flexibility and intensity of global water use. <i>Nature Sustainability</i> , <b>2019</b> , 2, 515-523	22.1	55
117	Toward Realizing Multifunctionality: Photoactive and Selective Adsorbents for the Removal of Inorganics in Water Treatment. <i>Accounts of Chemical Research</i> , <b>2019</b> , 52, 1206-1214	24.3	21
116	Supercritical CO <sub>2</sub> Transesterification of Triolein to Methyl-Oleate in a Batch Reactor: Experimental and Simulation Results. <i>Processes</i> , <b>2019</b> , 7, 16	2.9	3
115	Flavorant-Solvent Reaction Products and Menthol in JUUL E-Cigarettes and Aerosol. <i>American Journal of Preventive Medicine</i> , <b>2019</b> , 57, 425-427	6.1	23
114	Tailored mesoporous biochar sorbents from pinecone biomass for the adsorption of natural organic matter from lake water. <i>Journal of Molecular Liquids</i> , <b>2019</b> , 291, 111248	6	32
113	The periodic table of the elements of green and sustainable chemistry. <i>Green Chemistry</i> , <b>2019</b> , 21, 6545-6566		57
112	Teaching Atom Economy and E-Factor Concepts through a Green Laboratory Experiment: Aerobic Oxidative Cleavage of meso-Hydrobenzoin to Benzaldehyde Using a Heterogeneous Catalyst. <i>Journal of Chemical Education</i> , <b>2019</b> , 96, 761-765	2.4	20
111	Preferential adsorption of selenium oxyanions onto {1 1 0} and {0 1 2} nano-hematite facets. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 537, 465-474	9.3	27
110	Formation of flavorant-propylene Glycol Adducts With Novel Toxicological Properties in Chemically Unstable E-Cigarette Liquids. <i>Nicotine and Tobacco Research</i> , <b>2019</b> , 21, 1248-1258	4.9	79
109	The Green ChemisTREE: 20 years after taking root with the 12 principles. <i>Green Chemistry</i> , <b>2018</b> , 20, 1929-1961	13	13

108	Life cycle considerations of nano-enabled agrochemicals: are today's tools up to the task?. <i>Environmental Science: Nano</i> , <b>2018</b> , 5, 1057-1069	7.1	25
107	Greener Methodology: An Aldol Condensation of an Unprotected C-Glycoside with Solid Base Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 7810-7817	8.3	6
106	A framework for sustainable nanomaterial selection and design based on performance, hazard, and economic considerations. <i>Nature Nanotechnology</i> , <b>2018</b> , 13, 708-714	28.7	61
105	The United Nations sustainability goals: How can sustainable chemistry contribute?. <i>Current Opinion in Green and Sustainable Chemistry</i> , <b>2018</b> , 13, 150-153	7.9	56
104	The safer chemical design game. Gamification of green chemistry and safer chemical design concepts for high school and undergraduate students. <i>Green Chemistry Letters and Reviews</i> , <b>2018</b> , 11, 103-110	4.7	23
103	The Molecular Design Research Network. <i>Toxicological Sciences</i> , <b>2018</b> , 161, 241-248	4.4	13
102	The Value-Adding Connections Between the Management of Ecoinnovation and the Principles of Green Chemistry and Green Engineering <b>2018</b> , 981-998		3
101	Low risk posed by engineered and incidental nanoparticles in drinking water. <i>Nature Nanotechnology</i> , <b>2018</b> , 13, 661-669	28.7	73
100	Selectively biorefining astaxanthin and triacylglycerol co-products from microalgae with supercritical carbon dioxide extraction. <i>Bioresource Technology</i> , <b>2018</b> , 269, 81-88	11	19
99	Carbon Dioxide Mediated Transesterification of Mixed Triacylglyceride Substrates. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 9624-9632	4.1	5
98	Exploration of a Novel, Enamine-Solid-Base Catalyzed Aldol Condensation with C-Glycosidic Pyranoses and Furanoses. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 11196-11199	8.3	4
97	Process Intensification of Algae Oil Extraction to Biodiesel. <i>Computer Aided Chemical Engineering</i> , <b>2018</b> , 44, 1699-1704	0.6	3
96	Harmonized algal biofuel life cycle assessment studies enable direct process train comparison. <i>Applied Energy</i> , <b>2018</b> , 224, 494-509	10.7	18
95	Presence of High-Intensity Sweeteners in Popular Cigarillos of Varying Flavor Profiles. <i>JAMA - Journal of the American Medical Association</i> , <b>2018</b> , 320, 1380-1383	27.4	8
94	Multifunctional photoactive and selective adsorbent for arsenite and arsenate: Evaluation of nano titanium dioxide-enabled chitosan cross-linked with copper. <i>Journal of Hazardous Materials</i> , <b>2018</b> , 358, 145-154	12.8	37
93	Comparative behavioral toxicology with two common larval fish models: Exploring relationships among modes of action and locomotor responses. <i>Science of the Total Environment</i> , <b>2018</b> , 640-641, 1587-1600	10.2	36
92	Sooting tendencies of diesel fuels, jet fuels, and their surrogates in diffusion flames. <i>Fuel</i> , <b>2017</b> , 197, 445-458	7.1	65
91	The effect of sucralose on flavor sweetness in electronic cigarettes varies between delivery devices. <i>PLoS ONE</i> , <b>2017</b> , 12, e0185334	3.7	16

90	Meta-analysis and Harmonization of Life Cycle Assessment Studies for Algae Biofuels. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 9419-9432	10.3	31
89	Freshwater Vulnerability beyond Local Water Stress: Heterogeneous Effects of Water-Electricity Nexus Across the Continental United States. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 9899-9910	10.3	30
88	Hard templating ultrathin polycrystalline hematite nanosheets: effect of nano-dimension on CO to CO conversion via the reverse water-gas shift reaction. <i>Nanoscale</i> , <b>2017</b> , 9, 12984-12995	7.7	29
87	Toward the Design of Less Hazardous Chemicals: Exploring Comparative Oxidative Stress in Two Common Animal Models. <i>Chemical Research in Toxicology</i> , <b>2017</b> , 30, 893-904	4	21
86	Toward safer multi-walled carbon nanotube design: Establishing a statistical model that relates surface charge and embryonic zebrafish mortality. <i>Nanotoxicology</i> , <b>2016</b> , 10, 10-9	5.3	23
85	Probabilistic diagram for designing chemicals with reduced potency to incur cytotoxicity. <i>Green Chemistry</i> , <b>2016</b> , 18, 4461-4467	10	10
84	Systems Approach to Climate, Water, and Diarrhea in Hubli-Dharwad, India. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 13042-13051	10.3	13
83	A Strategy for Material Supply Chain Sustainability: Enabling a Circular Economy in the Electronics Industry through Green Engineering. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 5879-5888	8.3	43
82	Simultaneous Extraction, Fractionation, and Enrichment of Microalgal Triacylglycerides by Exploiting the Tunability of Neat Supercritical Carbon Dioxide. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 6222-6230	8.3	12
81	Current Status and Future Challenges in Molecular Design for Reduced Hazard. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 5900-5906	8.3	32
80	(Virtual) Water Flows Uphill toward Money. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 12320-12330	10.3	27
79	High-Intensity Sweeteners in Alternative Tobacco Products. <i>Nicotine and Tobacco Research</i> , <b>2016</b> , 18, 2169-2173	4.9	24
78	Assessment of predictive models for estimating the acute aquatic toxicity of organic chemicals. <i>Green Chemistry</i> , <b>2016</b> , 18, 4432-4445	10	65
77	Planning for climate change: The need for mechanistic systems-based approaches to study climate change impacts on diarrheal diseases. <i>Science of the Total Environment</i> , <b>2016</b> , 548-549, 82-90	10.2	38
76	Shape-Dependent Surface Reactivity and Antimicrobial Activity of Nano-Cupric Oxide. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 3975-84	10.3	78
75	Towards a selective adsorbent for arsenate and selenite in the presence of phosphate: Assessment of adsorption efficiency, mechanism, and binary separation factors of the chitosan-copper complex. <i>Water Research</i> , <b>2016</b> , 88, 889-896	12.5	34
74	Estimates of solid waste disposal rates and reduction targets for landfill gas emissions. <i>Nature Climate Change</i> , <b>2016</b> , 6, 162-165	21.4	88
73	Phase equilibria of triolein to biodiesel reactor systems. <i>Fluid Phase Equilibria</i> , <b>2016</b> , 409, 171-192	2.5	21

72	Time-dependent life cycle assessment of microalgal biorefinery co-products. <i>Biofuels, Bioproducts and Biorefining</i> , <b>2016</b> , 10, 409-421	5.3	12
71	More than Target 6.3: A Systems Approach to Rethinking Sustainable Development Goals in a Resource-Scarce World. <i>Engineering</i> , <b>2016</b> , 2, 481-489	9.7	36
70	The role of counter ions in nano-hematite synthesis: Implications for surface area and selenium adsorption capacity. <i>Journal of Hazardous Materials</i> , <b>2016</b> , 310, 117-24	12.8	43
69	Hybrid Analysis of Blue Water Consumption and Water Scarcity Implications at the Global, National, and Basin Levels in an Increasingly Globalized World. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 5143-53	10.3	61
68	The Molecular Basis of Sustainability. <i>CheM</i> , <b>2016</b> , 1, 10-12	16.2	22
67	Coupled molecular design diagrams to guide safer chemical design with reduced likelihood of perturbing the NRF2-ARE antioxidant pathway and inducing cytotoxicity. <i>Green Chemistry</i> , <b>2016</b> , 18, 6387-6394	10.4	11
66	Overcoming implementation barriers for nanotechnology in drinking water treatment. <i>Environmental Science: Nano</i> , <b>2016</b> , 3, 1241-1253	7.1	87
65	Ammonia inhibition in oleaginous microalgae. <i>Algal Research</i> , <b>2016</b> , 19, 123-127	5	73
64	Enhanced dispersion and electronic performance of single-walled carbon nanotube thin films without surfactant: A comprehensive study of various treatment processes. <i>Carbon</i> , <b>2015</b> , 93, 1008-1020	10.4	11
63	Application of membrane dewatering for algal biofuel. <i>Algal Research</i> , <b>2015</b> , 11, 1-12	5	74
62	Chemistry. Toward substitution with no regrets. <i>Science</i> , <b>2015</b> , 347, 1198-9	33.3	70
61	Designing nanomaterials to maximize performance and minimize undesirable implications guided by the Principles of Green Chemistry. <i>Chemical Society Reviews</i> , <b>2015</b> , 44, 5758-77	58.5	137
60	Role of CO2 in Mass Transfer, Reaction Kinetics, and Interphase Partitioning for the Transesterification of Triolein in an Expanded Methanol System with Heterogeneous Acid Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2015</b> , 3, 2669-2677	8.3	16
59	Identifying and designing chemicals with minimal acute aquatic toxicity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 6289-94	11.5	55
58	Life Cycle Payback Estimates of Nanosilver Enabled Textiles under Different Silver Loading, Release, And Laundering Scenarios Informed by Literature Review. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 7529-42	10.3	33
57	Coordinating modeling and experimental research of engineered nanomaterials to improve life cycle assessment studies. <i>Environmental Science: Nano</i> , <b>2015</b> , 2, 669-682	7.1	36
56	Highly conductive single-walled carbon nanotube thin film preparation by direct alignment on substrates from water dispersions. <i>Langmuir</i> , <b>2015</b> , 31, 1155-63	4	15
55	Economic and environmental assessment of office building rainwater harvesting systems in various U.S. cities. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 1768-78	10.3	47

54	Evaluating microalgal integrated biorefinery schemes: empirical controlled growth studies and life cycle assessment. <i>Bioresource Technology</i> , <b>2014</b> , 151, 19-27	11	73
53	Life cycle impacts and benefits of a carbon nanotube-enabled chemical gas sensor. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 11360-8	10.3	38
52	Toward tailored functional design of multi-walled carbon nanotubes (MWNTs): electrochemical and antimicrobial activity enhancement via oxidation and selective reduction. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 5938-45	10.3	37
51	Energy-water nexus analysis of enhanced water supply scenarios: a regional comparison of Tampa Bay, Florida, and San Diego, California. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 5883-91	10.3	79
50	Enzymatic and acid hydrolysis of <i>Tetraselmis suecica</i> for polysaccharide characterization. <i>Bioresource Technology</i> , <b>2014</b> , 173, 415-421	11	32
49	Effect of System Conditions for Biodiesel Production via Transesterification Using Carbon Dioxide/Methanol Mixtures in the Presence of a Heterogeneous Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2014</b> , 2, 387-395	8.3	21
48	Reducing aquatic hazards of industrial chemicals: probabilistic assessment of sustainable molecular design guidelines. <i>Environmental Toxicology and Chemistry</i> , <b>2014</b> , 33, 1894-902	3.8	18
47	Adsorption of selenite and selenate by nanocrystalline aluminum oxide, neat and impregnated in chitosan beads. <i>Water Research</i> , <b>2014</b> , 50, 373-81	12.5	105
46	A system dynamics approach for urban water reuse planning: a case study from the Great Lakes region. <i>Stochastic Environmental Research and Risk Assessment</i> , <b>2013</b> , 27, 675-691	3.5	21
45	Microalgae-Derived Chemicals: Opportunity for an Integrated Chemical Plant <b>2013</b> , 387-433		2
44	Nitrogen supply is an important driver of sustainable microalgae biofuel production. <i>Trends in Biotechnology</i> , <b>2013</b> , 31, 134-8	15.1	153
43	Realizing comparable oxidative and cytotoxic potential of single- and multiwalled carbon nanotubes through annealing. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 8775-83	10.3	20
42	Consequential environmental and economic life cycle assessment of green and gray stormwater infrastructures for combined sewer systems. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 11189-98	10.3	95
41	Construction Matters: Comparing Environmental Impacts of Building Modular and Conventional Homes in the United States. <i>Journal of Industrial Ecology</i> , <b>2012</b> , 16, 243-253	7.2	93
40	Green chemistry and green engineering in China: drivers, policies and barriers to innovation. <i>Journal of Cleaner Production</i> , <b>2012</b> , 32, 193-203	10.3	84
39	A free energy approach to the prediction of olefin and epoxide mutagenicity and carcinogenicity. <i>Chemical Research in Toxicology</i> , <b>2012</b> , 25, 2780-7	4	17
38	Barriers to the implementation of green chemistry in the United States. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 10892-9	10.3	45
37	Enhanced arsenic removal using mixed metal oxide impregnated chitosan beads. <i>Water Research</i> , <b>2012</b> , 46, 4427-34	12.5	106



36	Impact of surface functionalization on bacterial cytotoxicity of single-walled carbon nanotubes. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 6297-305	10.3	110
35	Preferential technological and life cycle environmental performance of chitosan flocculation for harvesting of the green algae <i>Neochloris oleoabundans</i> . <i>Bioresource Technology</i> , <b>2012</b> , 121, 445-9	11	87
34	Towards rational molecular design for reduced chronic aquatic toxicity. <i>Green Chemistry</i> , <b>2012</b> , 14, 1001	10	42
33	Derivation and synthesis of renewable surfactants. <i>Chemical Society Reviews</i> , <b>2012</b> , 41, 1499-518	58.5	193
32	Biodiesel production: the potential of algal lipids extracted with supercritical carbon dioxide. <i>Green Chemistry</i> , <b>2011</b> , 13, 1422	10	122
31	Green Chemistry and Green Engineering: A Framework for Sustainable Technology Development. <i>Annual Review of Environment and Resources</i> , <b>2011</b> , 36, 271-293	17.2	115
30	Linear and cyclic C-glycosides as surfactants. <i>Green Chemistry</i> , <b>2011</b> , 13, 321-325	10	33
29	Optimization of capacity and kinetics for a novel bio-based arsenic sorbent, TiO <sub>2</sub> -impregnated chitosan bead. <i>Water Research</i> , <b>2011</b> , 45, 5745-54	12.5	63
28	Algae as a source of renewable chemicals: opportunities and challenges. <i>Green Chemistry</i> , <b>2011</b> , 13, 1399	10	176
27	Sustainability and Commerce Trends. <i>Journal of Industrial Ecology</i> , <b>2011</b> , 15, 821-824	7.2	19
26	Combinatorial life cycle assessment to inform process design of industrial production of algal biodiesel. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 7060-7	10.3	279
25	Fate of sucralose through environmental and water treatment processes and impact on plant indicator species. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 1363-9	10.3	133
24	Towards rational molecular design: derivation of property guidelines for reduced acute aquatic toxicity. <i>Green Chemistry</i> , <b>2011</b> , 13, 2373	10	53
23	Challenges in developing biohydrogen as a sustainable energy source: implications for a research agenda. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 2243-54	10.3	139
22	A proactive approach to toxic chemicals: moving green chemistry beyond alternatives in the "Safe Chemicals Act of 2010". <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 6022-3	10.3	7
21	Accelerated solvent extraction of lignin from <i>Aleurites moluccana</i> (Candlenut) nutshells. <i>Journal of Agricultural and Food Chemistry</i> , <b>2010</b> , 58, 10045-8	5.7	27
20	Novel, bio-based, photoactive arsenic sorbent: TiO <sub>2</sub> -impregnated chitosan bead. <i>Water Research</i> , <b>2010</b> , 44, 5722-9	12.5	123
19	Measuring the embodied energy in drinking water supply systems: a case study in the Great Lakes region. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 9516-21	10.3	65

18	Toward molecular design for hazard reduction: fundamental relationships between chemical properties and toxicity. <i>Tetrahedron</i> , <b>2010</b> , 66, 1031-1039	2.4	23
17	Integrating Green Engineering into Engineering Curricula. <i>ACS Symposium Series</i> , <b>2009</b> , 137-146	0.4	1
16	Toward Understanding Opuntia as a Natural Coagulant. <i>Proceedings of the Water Environment Federation</i> , <b>2009</b> , 2009, 167-173		1
15	Toward Green Nano. <i>Journal of Industrial Ecology</i> , <b>2008</b> , 12, 316-328	7.2	114
14	Global stressors on water quality and quantity. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 4247-4254	5.3	136
13	Comparison of life cycle emissions and energy consumption for environmentally adapted metalworking fluid systems. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 8534-40	10.3	55
12	Toward understanding the efficacy and mechanism of Opuntia spp. as a natural coagulant for potential application in water treatment. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 4274-9	10.3	186
11	Spatial assessment of net mercury emissions from the use of fluorescent bulbs. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 8564-70	10.3	29
10	Design Through the 12 Principles of Green Engineering. <i>IEEE Engineering Management Review</i> , <b>2007</b> , 35, 16-16	3.6	29
9	Integrating developed and developing world knowledge into global discussions and strategies for sustainability. 2. Economics and governance. <i>Environmental Science &amp; Technology</i> , <b>2007</b> , 41, 3422-30	10.3	14
8	Integrating developed and developing world knowledge into global discussions and strategies for sustainability. 1. Science and technology. <i>Environmental Science &amp; Technology</i> , <b>2007</b> , 41, 3415-21	10.3	19
7	Chapter 10 When is waste not a waste?. <i>Sustainability Science and Engineering</i> , <b>2006</b> , 1, 201-221		2
6	Influence of ion accumulation on the emulsion stability and performance of semi-synthetic metalworking fluids. <i>Environmental Science &amp; Technology</i> , <b>2004</b> , 38, 2482-90	10.3	20
5	Design through the 12 principles of green engineering. <i>Environmental Science &amp; Technology</i> , <b>2003</b> , 37, 94A-101A	10.3	780
4	Design of hard water stable emulsifier systems for petroleum- and bio-based semi-synthetic metalworking fluids. <i>Environmental Science &amp; Technology</i> , <b>2003</b> , 37, 5278-88	10.3	41
3	Applying the principles of Green Engineering to cradle-to-cradle design. <i>Environmental Science &amp; Technology</i> , <b>2003</b> , 37, 434A-441A	10.3	172
2	Partitioning of Ethoxylated Nonionic Surfactants in Water/NAPL Systems: Effects of Surfactant and NAPL Properties. <i>Environmental Science &amp; Technology</i> , <b>2000</b> , 34, 1583-1588	10.3	62
1	Partitioning of Ethoxylated Nonionic Surfactants into Nonaqueous-Phase Organic Liquids: Influence on Solubilization Behavior. <i>Environmental Science &amp; Technology</i> , <b>1999</b> , 33, 169-176	10.3	45

