

# Seth W Snyder

## List of Publications by Year in descending order

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55  
papers

4,295  
citations

159358

30  
h-index

189595

50  
g-index

59  
all docs

59  
docs citations

59  
times ranked

4971  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomass-to-bioenergy and biofuel supply chain optimization: Overview, key issues and challenges. <i>Computers and Chemical Engineering</i> , 2014, 66, 36-56.	2.0	563
2	Optimal design of sustainable cellulosic biofuel supply chains: Multiobjective optimization coupled with life cycle assessment and input-output analysis. <i>AIChE Journal</i> , 2012, 58, 1157-1180.	1.8	547
3	An overview of biogas production and utilization at full-scale wastewater treatment plants (WWTPs) in the United States: Challenges and opportunities towards energy-neutral WWTPs. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 50, 346-362.	8.2	381
4	Amyloid-beta aggregation: selective inhibition of aggregation in mixtures of amyloid with different chain lengths. <i>Biophysical Journal</i> , 1994, 67, 1216-1228.	0.2	359
5	Clusterin (apoJ) Alters the Aggregation of Amyloid $\beta$ -Peptide ( $A\beta_{1-42}$ ) and Forms Slowly Sedimenting $A\beta_2$ Complexes That Cause Oxidative Stress. <i>Experimental Neurology</i> , 1995, 136, 22-31.	2.0	318
6	Producing pipeline-quality biomethane via anaerobic digestion of sludge amended with corn stover biochar with in-situ CO <sub>2</sub> removal. <i>Applied Energy</i> , 2015, 158, 300-309.	5.1	247
7	The nanometer-scale structure of amyloid- $\beta$ visualized by atomic force microscopy. <i>The Protein Journal</i> , 1996, 15, 193-203.	1.1	168
8	A Novel Framework to Classify Marginal Land for Sustainable Biomass Feedstock Production. <i>Journal of Environmental Quality</i> , 2011, 40, 1593-1600.	1.0	128
9	Cooling water use in thermoelectric power generation and its associated challenges for addressing water-energy nexus. <i>Water-Energy Nexus</i> , 2018, 1, 26-41.	1.7	110
10	Biofuels, Land, and Water: A Systems Approach to Sustainability. <i>Environmental Science &amp; Technology</i> , 2009, 43, 6094-6100.	4.6	102
11	4-evoked degeneration of differentiated SH-SY5Y human neuroblastoma cells. <i>Journal of Neuroscience Research</i> , 1994, 39, 377-385.	1.3	80
12	Chiral discrimination in electronic energy-transfer processes between dissymmetric metal complexes in solution. Time-resolved chiroptical luminescence measurements of enantioselective excited-state quenching kinetics. <i>Journal of the American Chemical Society</i> , 1990, 112, 5681-5695.	6.6	73
13	Removal of enzymatic and fermentation inhibitory compounds from biomass slurries for enhanced biorefinery process efficiencies. <i>Bioresource Technology</i> , 2011, 102, 7850-7859.	4.8	64
14	Achieving very low mercury levels in refinery wastewater by membrane filtration. <i>Journal of Hazardous Materials</i> , 2012, 215-216, 98-107.	6.5	64
15	Excited-state racemization kinetics and chiroptical activity of a labile metal complex in aqueous solution. Time-resolved circularly polarized luminescence study of tris(dipicolinato)europate (3-) in water and deuterium oxide. <i>Journal of the American Chemical Society</i> , 1990, 112, 469-479.	6.6	62
16	Chiral recognition between dissymmetric Ln(dpa) <sub>3</sub> and cobalt(III)-nucleotide complexes in aqueous solution. Enantioselective luminescence quenching as a probe of intermolecular chiral discrimination. <i>Inorganic Chemistry</i> , 1992, 31, 2445-2455.	1.9	62
17	Development of a Resin Wafer Electrodeionization Process for Impaired Water Desalination with High Energy Efficiency and Productivity. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 2942-2948.	3.2	60
18	Electrochemical CO <sub>2</sub> Capture Using Resin-Wafer Electrodeionization. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 15177-15186.	1.8	59

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19	Interactions of ruthenium(II) photosensitizers with surfactant media. <i>The Journal of Physical Chemistry</i> , 1989, 93, 5265-5271.	2.9	55
20	Direct assignment of vitamin K1 as the secondary acceptor A1 in photosystem I.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991, 88, 9895-9896.	3.3	55
21	Electron Spin Polarization Model Applied to Sequential Electron Transfer in Iron-Containing Photosynthetic Bacterial Reaction Centers with Different Quinones as QA. <i>The Journal of Physical Chemistry</i> , 1995, 99, 3854-3866.	2.9	55
22	Excited-state chiral discrimination observed by time-resolved circularly polarized luminescence measurements. <i>Journal of the American Chemical Society</i> , 1989, 111, 3082-3083.	6.6	53
23	Accelerating Innovation that Enhances Resource Recovery in the Wastewater Sector: Advancing a National Testbed Network. <i>Environmental Science &amp; Technology</i> , 2017, 51, 7749-7758.	4.6	50
24	Contribution of vitamin K1 to the electron spin polarization in spinach photosystem I. <i>Biochemistry</i> , 1990, 29, 8030-8032.	1.2	49
25	Photosynthetic electron-transfer reactions in the green sulfur bacterium <i>Chlorobium vibrioforme</i> : Evidence for the functional involvement of iron-sulfur redox centers on the acceptor side of the reaction center. <i>Biochemistry</i> , 1992, 31, 4354-4363.	1.2	49
26	Similarities between $\beta$ Amyloid Peptides 1-40 and 40-1: Effects on Aggregation, Toxicity in Vitro, and Injection in Young and Aged Rats. <i>Experimental Neurology</i> , 1994, 125, 175-182.	2.0	40
27	Electron Spin Polarization in Photosynthetic Reaction Centers. , 1993, , 285-330.		40
28	Electrokinetic desalination of brackish water and associated challenges in the water and energy nexus. <i>Environmental Science: Water Research and Technology</i> , 2018, 4, 613-638.	1.2	39
29	Energy-efficient resin wafer electrodeionization for impaired water reclamation. <i>Journal of Cleaner Production</i> , 2018, 174, 1464-1474.	4.6	35
30	Reconstitution and exchange of quinones in the A1 site of Photosystem I. An electron spin polarization electron paramagnetic resonance study. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1992, 1101, 311-320.	0.5	32
31	Chiral dynamics in the excited state of a stereochemically labile metal complex. Enantiomer interconversion kinetics, enantioselective quenching, and chiroptical activity of tris(chalidamato)europium(6-) in water and water-d2. <i>The Journal of Physical Chemistry</i> , 1990, 94, 7143-7153.	2.9	31
32	Electron spin polarization in sequential electron transfer. An example from iron-containing photosynthetic bacterial reaction center proteins. <i>Journal of the American Chemical Society</i> , 1993, 115, 3774-3775.	6.6	26
33	Printing-Assisted Surface Modifications of Patterned Ultrafiltration Membranes. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 30271-30280.	4.0	26
34	Impact of trace element additives on anaerobic digestion of sewage sludge with in-situ carbon dioxide sequestration. <i>Process Biochemistry</i> , 2016, 51, 1283-1289.	1.8	26
35	Magnetic circularly polarized luminescence of zinc phthalocyanine in an argon matrix. <i>The Journal of Physical Chemistry</i> , 1990, 94, 2828-2832.	2.9	25
36	Removal of Acidic Impurities from Corn Stover Hydrolysate Liquor by Resin Wafer Based Electrodeionization. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 13777-13784.	1.8	24

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37	Assessing the environmental impacts and water consumption of pretreatment and conditioning processes of corn stover hydrolysate liquor in biorefineries. <i>Energy</i> , 2016, 116, 436-444.	4.5	22
38	Development of Low-Carbon-Driven Bio-product Technology Using Lignocellulosic Substrates from Agriculture: Challenges and Perspectives. <i>Current Sustainable/Renewable Energy Reports</i> , 2015, 2, 145-154.	1.2	16
39	Effect of particle size and doses of olivine addition on carbon dioxide sequestration during anaerobic digestion of sewage sludge at ambient and mesophilic temperatures. <i>Process Biochemistry</i> , 2016, 51, 59-72.	1.8	15
40	Title is missing!. <i>Photosynthesis Research</i> , 1997, 52, 93-103.	1.6	13
41	An attempt towards simultaneous biobased solvent based extraction of proteins and enzymatic saccharification of cellulosic materials from distiller's grains and solubles. <i>Bioresource Technology</i> , 2010, 101, 5444-5448.	4.8	10
42	Luminescence quenching of ruthenium(II) photosensitizers by copper(2+) in Triton surfactant media. <i>Langmuir</i> , 1985, 1, 548-552.	1.6	9
43	Transformative research issues and opportunities in alternative energy generation and storage. <i>Current Opinion in Solid State and Materials Science</i> , 2011, 15, 8-15.	5.6	9
44	Solvent accessibility of ruthenium(II) photosensitizers with cetyltrimethyl ammonium bromide. <i>Chemical Physics Letters</i> , 1988, 145, 434-438.	1.2	7
45	Modified porous Nafion®: Membrane characterization and two-phase separations. <i>Journal of Membrane Science</i> , 2006, 281, 268-273.	4.1	7
46	Concept for production of chemicals and power using geothermal energy. <i>Applied Thermal Engineering</i> , 2013, 58, 564-569.	3.0	7
47	Domain structure analysis of elongation factor $\beta$ from <i>Saccharomyces cerevisiae</i> by limited proteolysis and differential scanning calorimetry. <i>Protein Science</i> , 1998, 7, 2595-2601.	3.1	6
48	Single photon counting lifetime measurements of weak, long-lived samples. <i>Analytical Chemistry</i> , 1989, 61, 2704-2707.	3.2	5
49	Applications of Analytical Ultracentrifugation in Structure-Based Drug Design. , 1994, , 298-314.		4
50	Quantitative Nuclear Magnetic Resonance Spectroscopy as a Tool To Evaluate Chemical Modification of Deep Hydrotreated Recycled Lube Oils. <i>Energy &amp; Fuels</i> , 2013, 27, 133-137.	2.5	3
51	Achieving the Great Lakes Initiative Mercury Limits in Oil Refinery Effluent. <i>Water Environment Research</i> , 2013, 85, 77-86.	1.3	1
52	Field-scale Demonstration of a New In Situ Biogas Upgrading Process to Produce Renewable Methane from Food Waste. <i>Proceedings of the Water Environment Federation</i> , 2016, 2016, 5607-5613.	0.0	1
53	Introduction to session 5. <i>Applied Biochemistry and Biotechnology</i> , 2007, 137-140, 739-740.	1.4	0
54	Capture of Geothermal Heat as Chemical Energy. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2015, 37, 2647-2654.	1.2	0

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55	Current Biogas Production and Utilization at U.S. Wastewater Treatment Plants: It's All About Co-Digestion. Proceedings of the Water Environment Federation, 2015, 2015, 1-5.	0.0	0