

Lauren F Greenlee

List of Publications by Year in descending order

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70
papers

5,706
citations

279798

23
h-index

138484

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all docs

70
docs citations

70
times ranked

7525
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of electrochemically precipitated struvite as a fertilizer phosphorus source in flood-irrigated rice. <i>Agronomy Journal</i> , 2022, 114, 739-755.	1.8	11
2	The effect of anode degradation on energy demand and production efficiency of electrochemically precipitated struvite. <i>Journal of Applied Electrochemistry</i> , 2022, 52, 205-215.	2.9	6
3	Electrochemical nutrient removal from natural wastewater sources and its impact on water quality. <i>Water Research</i> , 2022, 210, 118001.	11.3	11
4	Fe Coordination Environment, Fe-Incorporated Ni(OH) ₂ Phase, and Metallic Core Are Key Structural Components to Active and Stable Nanoparticle Catalysts for the Oxygen Evolution Reaction. <i>ACS Catalysis</i> , 2022, 12, 1992-2008.	11.2	27
5	Ultrafiltration Membranes Functionalized with Copper Oxide and Zwitterions for Fouling Resistance. <i>Membranes</i> , 2022, 12, 544.	3.0	3
6	(Digital Presentation) Magnesium Shot Filled Electrochemical Packed Bed Reactor for Phosphate Recovery. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 1208-1208.	0.0	0
7	(Digital Presentation) Electrochemical Recovery of Ammonium and Phosphate from Municipal Wastewater Sources: Kinetics and Water Chemistry. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 1816-1816.	0.0	0
8	(Digital Presentation) Time-Resolved Operando XAS of Fe _x Ni _{100-x} O _y Electrocatalysts for the Oxygen Evolution Reaction Reveals Temporal Shift in Ni K-Edge during Ni ^{2+/3+} Redox Reaction. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 1357-1357.	0.0	0
9	(Digital Presentation) Enhanced Electrochemical Phosphate Recovery from Wastewater: Implications of Pulsating Anode Potential. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 1813-1813.	0.0	0
10	Nitrate Reduction By Hydrophobic, Negatively, and Positively Charged Peptide-Coated Au Electrode. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 1800-1800.	0.0	0
11	Electrochemical recovery of phosphate from synthetic wastewater with enhanced salinity. <i>Electrochimica Acta</i> , 2022, 426, 140848.	5.2	4
12	Electrochemical disinfection of irrigation water with a graphite electrode flow cell. <i>Water Environment Research</i> , 2021, 93, 535-548.	2.7	11
13	Design, characterization, and modeling of a chitosan microneedle patch for transdermal delivery of meloxicam as a pain management strategy for use in cattle. <i>Materials Science and Engineering C</i> , 2021, 118, 111544.	7.3	44
14	Nickel-Iron Alloy Nanoparticle Characteristics Pre- and Post-Reaction With Orange G. <i>IEEE Open Journal of Nanotechnology</i> , 2021, 2, 16-25.	2.0	1
15	Wastewater-recovered struvite effects on total extractable phosphorus compared with other phosphorus sources. , 2021, 4, e20154.		9
16	Electrochemically precipitated struvite effects on extractable nutrients compared with other fertilizer phosphorus sources. , 2021, 4, e20183.		8
17	Electrochemical biomass upgrading: degradation of glucose to lactic acid on a copper(II) electrode. <i>RSC Advances</i> , 2021, 11, 31208-31218.	3.6	10
18	Electrochemically active surface area controls HER activity for Fe _x Ni _{100-x} films in alkaline electrolyte. <i>Journal of Catalysis</i> , 2021, 394, 104-112.	6.2	59

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19	An Electrochemical Study of Ammonium Dihydrogen Phosphate on Mg and Mg Alloy Electrodes. <i>Electrocatalysis</i> , 2021, 12, 251-263.	3.0	6
20	Electrochemical ammonia removal and disinfection of aquaculture wastewater using batch and flow reactors incorporating PtRu/graphite anode and graphite cathode. <i>Aquacultural Engineering</i> , 2021, 93, 102155.	3.1	22
21	Total extractable phosphorus in flooded soil as affected by struvite and other fertilizer phosphorus sources. <i>Soil Science Society of America Journal</i> , 2021, 85, 1157-1173.	2.2	11
22	Disinfection/ammonia removal from aquaculture wastewater and disinfection of irrigation water using electrochemical flow cells: A case study in Hawaii. <i>Water Environment Research</i> , 2021, 93, 2149-2168.	2.7	2
23	Disinfection of Irrigation Water Using Titanium Electrodes. <i>Journal of the Electrochemical Society</i> , 2021, 168, 063502.	2.9	4
24	Comparative study of trichloroethylene removal by different carbons and FeNi-carbon composites. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106268.	6.7	2
25	Salt screening analysis for reverse electrodialysis. <i>Sustainable Energy and Fuels</i> , 2021, 5, 6135-6144.	4.9	2
26	Electrochemical removal and recovery of phosphorus as struvite in an acidic environment using pure magnesium vs. the AZ31 magnesium alloy as the anode. <i>Chemical Engineering Journal</i> , 2020, 380, 122480.	12.7	55
27	Recombinant peptide fusion construction for protein-templated catalytic palladium nanoparticles. <i>Biotechnology Progress</i> , 2020, 36, e2956.	2.6	7
28	Electroless Production of Fertilizer (Struvite) and Hydrogen from Synthetic Agricultural Wastewaters. <i>Journal of the American Chemical Society</i> , 2020, 142, 18844-18858.	13.7	33
29	Recycling fertilizer. <i>Nature Energy</i> , 2020, 5, 557-558.	39.5	18
30	Corn and soybean response to wastewater-recovered and other common phosphorus fertilizers. , 2020, 3, e20086.		11
31	The Passivating Layer Influence on Mg-Based Anode Corrosion and Implications for Electrochemical Struvite Precipitation. <i>Journal of the Electrochemical Society</i> , 2019, 166, E358-E364.	2.9	18
32	Chemical Structure of Fe-Ni Nanoparticles for Efficient Oxygen Evolution Reaction Electrocatalysis. <i>ACS Omega</i> , 2019, 4, 17209-17222.	3.5	26
33	Influence of Ligand Size and Chelation Strength on Zerovalent Iron Nanoparticle Adsorption and Oxidation Behavior in the Presence of Water Vapor and Liquid Water. <i>Journal of Physical Chemistry C</i> , 2019, 123, 2474-2487.	3.1	9
34	Covalent Organic Frameworks for the Capture, Fixation, or Reduction of CO ₂ . <i>Frontiers in Energy Research</i> , 2019, 7, .	2.3	91
35	Interactions of Polyproline II Helix Peptides with Iron(III) Oxide. <i>ChemistrySelect</i> , 2019, 4, 6784-6789.	1.5	1
36	Recombinant peptide fusion proteins enable palladium nanoparticle growth. <i>Materials Letters</i> , 2019, 252, 68-71.	2.6	8

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37	Removal of Synthetic Azo Dye Using Bimetallic Nickel-Iron Nanoparticles. <i>Journal of Nanomaterials</i> , 2019, 2019, 1-12.	2.7	26
38	Controlling the 3-D morphology of Ni-Fe-based nanocatalysts for the oxygen evolution reaction. <i>Nanoscale</i> , 2019, 11, 8170-8184.	5.6	18
39	The Use of Ultrasound for the Electrochemical Synthesis of Magnesium Ammonium Phosphate Hexahydrate (Struvite). <i>ECS Transactions</i> , 2019, 92, 47-55.	0.5	10
40	Simultaneous Electrochemical Nutrient Recovery and Hydrogen Generation from Model Wastewater Using a Sacrificial Magnesium Anode. <i>Journal of the Electrochemical Society</i> , 2019, 166, E576-E583.	2.9	14
41	Nanocomposite membranes for water separation and purification: Fabrication, modification, and applications. <i>Separation and Purification Technology</i> , 2019, 213, 465-499.	7.9	346
42	Real-Time Interaction of Mixed Species Biofilm With Silver Nanoparticles Using QCM-D. <i>Colloids and Interface Science Communications</i> , 2019, 28, 49-53.	4.1	0
43	The Use of Controls for Consistent and Accurate Measurements of Electrocatalytic Ammonia Synthesis from Dinitrogen. <i>ACS Catalysis</i> , 2018, 8, 7820-7827.	11.2	242
44	Role of Surface Area on the Performance of Iron Nickel Nanoparticles for the Oxygen Evolution Reaction (OER). <i>ECS Transactions</i> , 2018, 85, 81-89.	0.5	6
45	Catalysts for nitrogen reduction to ammonia. <i>Nature Catalysis</i> , 2018, 1, 490-500.	34.4	1,050
46	Multi-Component Fe-Ni Hydroxide Nanocatalyst for Oxygen Evolution and Methanol Oxidation Reactions under Alkaline Conditions. <i>ACS Catalysis</i> , 2017, 7, 365-379.	11.2	154
47	Post-Synthesis Separation and Storage of Zero-Valent Iron Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 2413-2422.	0.9	7
48	Compositional Optimization of Alloy Fe _x Ni _y (OH) ₂ Nanoparticles for Alkaline Electrochemical Oxygen Evolution. <i>ECS Transactions</i> , 2017, 77, 25-38.	0.5	5
49	Advanced oxidation of orange G using phosphonic acid stabilised zerovalent iron. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 4014-4023.	6.7	21
50	Scalable Chitosan-Graphene Oxide Membranes: The Effect of GO Size on Properties and Cross-Flow Filtration Performance. <i>ACS Omega</i> , 2017, 2, 8751-8759.	3.5	45
51	Influence of nanoparticle processing and additives on PES casting solution viscosity and cast membrane characteristics. <i>Polymer</i> , 2016, 103, 498-508.	3.8	24
52	Electrochemical Synthesis of Ammonia: A Low Pressure, Low Temperature Approach. <i>Electrochemical Society Interface</i> , 2015, 24, 51-57.	0.4	114
53	Processing and Characterization of Nanoparticle Coatings for Quartz Crystal Microbalance Measurements. <i>Journal of Research of the National Institute of Standards and Technology</i> , 2015, 120, 1.	1.2	24
54	Stability and phase transfer of catalytically active platinum nanoparticle suspensions. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	1.9	4

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55	Oxidation behavior of zero-valent iron nanoparticles in mixed matrix water purification membranes. <i>Environmental Science: Water Research and Technology</i> , 2015, 1, 146-152.	2.4	21
56	Basic science of water: Challenges and current status towards a molecular picture. <i>Nano Research</i> , 2015, 8, 3085-3110.	10.4	27
57	ATMP-stabilized iron nanoparticles: chelator-controlled nanoparticle synthesis. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	15
58	Ozonation of phosphonate antiscalants used for reverse osmosis desalination: Parameter effects on the extent of oxidation. <i>Chemical Engineering Journal</i> , 2014, 244, 505-513.	12.7	25
59	Fast Proton Conduction Facilitated by Minimum Water in a Series of Divinylsilyl-11-silicotungstic Acid- <i>co</i> -Butyl Acrylate- <i>co</i> -Hexanediol Diacrylate Polymers. <i>Journal of Physical Chemistry C</i> , 2014, 118, 135-144.	3.1	22
60	Kinetics of Zero Valent Iron Nanoparticle Oxidation in Oxygenated Water. <i>Environmental Science & Technology</i> , 2012, 46, 12913-12920.	10.0	127
61	Development of stabilized zero valent iron nanoparticles. <i>Desalination and Water Treatment</i> , 2012, 37, 114-121.	1.0	21
62	Characterization of Stabilized Zero Valent Iron Nanoparticles. , 2012, , 173-188.		2
63	Influence of synthesis parameters on iron nanoparticle size and zeta potential. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	1.9	23
64	Effect of antiscalant degradation on salt precipitation and solid/liquid separation of RO concentrate. <i>Journal of Membrane Science</i> , 2011, 366, 48-61.	8.2	44
65	Effect of antiscalants on precipitation of an RO concentrate: Metals precipitated and particle characteristics for several water compositions. <i>Water Research</i> , 2010, 44, 2672-2684.	11.3	43
66	The effect of antiscalant addition on calcium carbonate precipitation for a simplified synthetic brackish water reverse osmosis concentrate. <i>Water Research</i> , 2010, 44, 2957-2969.	11.3	114
67	Reverse osmosis desalination: Water sources, technology, and today's challenges. <i>Water Research</i> , 2009, 43, 2317-2348.	11.3	2,496
68	Thyroid hormone resistance and increased metabolic rate in the RXR- β -deficient mouse. <i>Journal of Clinical Investigation</i> , 2000, 106, 73-79.	8.2	86
69	The electrochemistry of ammonium dihydrogen phosphate, disodium phosphate, ammonium chloride on Mg-based and polycrystalline Pt electrodes. <i>Electrochemical Science Advances</i> , 0, , e2100067.	2.8	0
70	Electrochemical Activation of Silicon: Enhancing Hydrogen Production from FeNi Electrocatalysts. <i>Energy & Fuels</i> , 0, , .	5.1	0