

Gary A Gill

List of Publications by Year in descending order

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80
papers

5,788
citations

57758

44
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74163

75
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84
all docs

84
docs citations

84
times ranked

4001
citing authors

#	ARTICLE	IF	CITATIONS
1	A Lithium Feedstock Pathway: Coupled Electrochemical Extraction and Direct Battery Materials Manufacturing. ACS Energy Letters, 2022, 7, 2420-2427.	17.4	9
2	Strategies toward the Synthesis of Advanced Functional Sorbent Performance for Uranium Uptake from Seawater. Industrial & Engineering Chemistry Research, 2021, 60, 15037-15044.	3.7	9
3	The Influence of Transitional Metal Dopants on Reducing Chlorine Evolution during the Electrolysis of Raw Seawater. Applied Sciences (Switzerland), 2021, 11, 11911.	2.5	3
4	Uranium Recovery from Seawater Using Amidoxime-Based Braided Polymers Synthesized from Acrylic Fibers. Industrial & Engineering Chemistry Research, 2020, 59, 13988-13996.	3.7	9
5	A highly efficient uranium grabber derived from acrylic fiber for extracting uranium from seawater. Dalton Transactions, 2020, 49, 2803-2810.	3.3	29
6	Assessment of Impacts of Dissolved Organic Matter and Dissolved Iron on the Performance of Amidoxime-Based Adsorbents for Seawater Uranium Extraction. Industrial & Engineering Chemistry Research, 2019, 58, 8536-8543.	3.7	8
7	Temperature Dependence of Uranium and Vanadium Adsorption on Amidoxime-Based Adsorbents in Natural Seawater. ChemistrySelect, 2018, 3, 843-848.	1.5	32
8	Uranium Resource Recovery from Desalination Plant Feed and Reject Water Using Amidoxime Functionalized Adsorbent. Industrial & Engineering Chemistry Research, 2018, 57, 17237-17244.	3.7	28
9	Maritime Renewable Energy Markets: Power From the Sea. Marine Technology Society Journal, 2018, 52, 99-109.	0.4	14
10	Influence of Current Velocity on Uranium Adsorption from Seawater Using an Amidoxime-Based Polymer Fiber Adsorbent. Industrial & Engineering Chemistry Research, 2017, 56, 2205-2211.	3.7	26
11	Bicarbonate Elution of Uranium from Amidoxime-Based Polymer Adsorbents for Sequestering Uranium from Seawater. ChemistrySelect, 2017, 2, 3769-3774.	1.5	27
12	Efficient Functionalization of Polyethylene Fibers for the Uranium Extraction from Seawater through Atom Transfer Radical Polymerization. Industrial & Engineering Chemistry Research, 2017, 56, 10826-10832.	3.7	36
13	Investigations into the Reusability of Amidoxime-Based Polymeric Adsorbents for Seawater Uranium Extraction. Industrial & Engineering Chemistry Research, 2017, 56, 11603-11611.	3.7	38
14	Surface functionalized nanostructured ceramic sorbents for the effective collection and recovery of uranium from seawater. Dalton Transactions, 2016, 45, 11312-11325.	3.3	56
15	A report on emergent uranyl binding phenomena by an amidoxime phosphonic acid co-polymer. Physical Chemistry Chemical Physics, 2016, 18, 23462-23468.	2.8	13
16	Mercury concentrations in Pacific lamprey (<i>Entosphenus tridentatus</i>) and sediments in the Columbia River basin. Environmental Toxicology and Chemistry, 2016, 35, 2571-2576.	4.3	7
17	Potential Impact of Seawater Uranium Extraction on Marine Life. Industrial & Engineering Chemistry Research, 2016, 55, 4278-4284.	3.7	15
18	Measurement background and the sediment age-dating reach of ³² Si. Journal of Radioanalytical and Nuclear Chemistry, 2016, 307, 2313-2319.	1.5	2

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19	Effect of Biofouling on the Performance of Amidoxime-Based Polymeric Uranium Adsorbents. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 4328-4338.	3.7	80
20	Extracting Uranium from Seawater: Promising AF Series Adsorbents. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 4110-4117.	3.7	136
21	Elution of Uranium and Transition Metals from Amidoxime-Based Polymer Adsorbents for Sequestering Uranium from Seawater. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 4313-4320.	3.7	65
22	Nanostructured Metal Oxide Sorbents for the Collection and Recovery of Uranium from Seawater. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 4195-4207.	3.7	46
23	Comparison of Analytical Methods for the Determination of Uranium in Seawater Using Inductively Coupled Plasma Mass Spectrometry. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 4344-4350.	3.7	24
24	Characterization and Testing of Amidoxime-Based Adsorbent Materials to Extract Uranium from Natural Seawater. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 4285-4293.	3.7	56
25	The Uranium from Seawater Program at the Pacific Northwest National Laboratory: Overview of Marine Testing, Adsorbent Characterization, Adsorbent Durability, Adsorbent Toxicity, and Deployment Studies. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 4264-4277.	3.7	107
26	Uranium Adsorbent Fibers Prepared by Atom-Transfer Radical Polymerization (ATRP) from Poly(vinyl Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Engineering Chemistry Research, 2016, 55, 4139-4148.	3.7	128
27	Enhancing Uranium Uptake by Amidoxime Adsorbent in Seawater: An Investigation for Optimum Alkaline Conditioning Parameters. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 4294-4302.	3.7	58
28	Alternative Alkaline Conditioning of Amidoxime Based Adsorbent for Uranium Extraction from Seawater. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 4303-4312.	3.7	55
29	Towards understanding KOH conditioning of amidoxime-based polymer adsorbents for sequestering uranium from seawater. <i>RSC Advances</i> , 2015, 5, 100715-100721.	3.6	32
30	Macroporous monoliths for trace metal extraction from seawater. <i>RSC Advances</i> , 2015, 5, 50005-50010.	3.6	28
31	Flux of Total Mercury and Methylmercury to the Northern Gulf of Mexico from U.S. Estuaries. <i>Environmental Science & Technology</i> , 2015, 49, 13992-13999.	10.0	23
32	Development of a Kelp-Type Structure Module in a Coastal Ocean Model to Assess the Hydrodynamic Impact of Seawater Uranium Extraction Technology. <i>Journal of Marine Science and Engineering</i> , 2014, 2, 81-92.	2.6	17
33	Concurrent photolytic degradation of aqueous methylmercury and dissolved organic matter. <i>Science of the Total Environment</i> , 2014, 484, 263-275.	8.0	71
34	Uptake of Uranium from Seawater by Amidoxime-Based Polymeric Adsorbent: Field Experiments, Modeling, and Updated Economic Assessment. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 6076-6083.	3.7	185
35	Uranium recovery from seawater: development of fiber adsorbents prepared via atom-transfer radical polymerization. <i>Journal of Materials Chemistry A</i> , 2014, 2, 14674-14681.	10.3	138
36	Mercury cycling in agricultural and managed wetlands: A synthesis of methylmercury production, hydrologic export, and bioaccumulation from an integrated field study. <i>Science of the Total Environment</i> , 2014, 484, 221-231.	8.0	85

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37	Evaluation of gene expression changes in human primary uroepithelial cells following 24-hr exposures to inorganic arsenic and its methylated metabolites. <i>Environmental and Molecular Mutagenesis</i> , 2013, 54, 82-98.	2.2	26
38	Bayesian Integration of Isotope Ratio for Geographic Sourcing of Castor Beans. <i>Journal of Biomedicine and Biotechnology</i> , 2012, 2012, 1-8.	3.0	10
39	Pyrogenic Inputs of Anthropogenic Pb and Hg to Sediments of the Hood Canal, Washington, in the 20th Century: Source Evidence from Stable Pb Isotopes and PAH Signatures. <i>Environmental Science & Technology</i> , 2012, 46, 5772-5781.	10.0	24
40	An intercomparison of procedures for the determination of total mercury in seawater and recommendations regarding mercury speciation during GEOTRACES cruises. <i>Limnology and Oceanography: Methods</i> , 2012, 10, 90-100.	2.0	62
41	Acetone-butanol fermentation of marine macroalgae. <i>Bioresource Technology</i> , 2012, 108, 305-309.	9.6	98
42	Estuarine mixing behavior of colloidal organic carbon and colloidal mercury in Galveston Bay, Texas. <i>Journal of Environmental Monitoring</i> , 2011, 13, 1703.	2.1	15
43	The cycling and oxidation pathways of organic carbon in a shallow estuary along the Texas Gulf Coast. <i>Estuarine, Coastal and Shelf Science</i> , 2008, 76, 69-84.	2.1	14
44	Recent increase in atmospheric deposition of mercury to California aquatic systems inferred from a 300-year geochronological assessment of lake sediments. <i>Applied Geochemistry</i> , 2008, 23, 399-407.	3.0	20
45	Chemical and physical speciation of mercury in Offatts Bayou: A seasonally anoxic bayou in Galveston Bay. <i>Limnology and Oceanography</i> , 2007, 52, 1380-1392.	3.1	18
46	Bioaccumulation of mercury in pelagic fishes from the northern Gulf of Mexico. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2007, 64, 458-469.	1.4	107
47	Spatial and Habitat-Based Variations in Total and Methyl Mercury Concentrations in Surficial Sediments in the San Francisco Bay-Delta. <i>Environmental Science & Technology</i> , 2007, 41, 3501-3507.	10.0	53
48	The impact of shrimp trawling and associated sediment resuspension in mud dominated, shallow estuaries. <i>Estuarine, Coastal and Shelf Science</i> , 2006, 69, 519-530.	2.1	56
49	Complexation of mercury by dissolved organic matter in surface waters of Galveston Bay, Texas. <i>Marine Chemistry</i> , 2006, 98, 156-166.	2.3	51
50	Determination of Mercury Complexation in Coastal and Estuarine Waters Using Competitive Ligand Exchange Method. <i>Environmental Science & Technology</i> , 2005, 39, 6607-6615.	10.0	49
51	Sediment-water exchange of total mercury and monomethyl mercury in the San Francisco Bay-Delta. <i>Limnology and Oceanography</i> , 2004, 49, 1512-1527.	3.1	107
52	The effects of shrimp trawling on sediment oxygen consumption and the fluxes of trace metals and nutrients from estuarine sediments. <i>Estuarine, Coastal and Shelf Science</i> , 2003, 57, 25-42.	2.1	32
53	Distribution of particulate, colloidal, and dissolved mercury in San Francisco Bay estuary. 2. Monomethyl mercury. <i>Limnology and Oceanography</i> , 2003, 48, 1547-1556.	3.1	38
54	Distribution of particulate, colloidal, and dissolved mercury in San Francisco Bay estuary. 1. Total mercury. <i>Limnology and Oceanography</i> , 2003, 48, 1535-1546.	3.1	75

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55	Silver concentrations in Colorado, USA, watersheds using improved methodology. <i>Environmental Toxicology and Chemistry</i> , 2002, 21, 2040-2051.	4.3	49
56	Processes Influencing Rainfall Deposition of Mercury in Florida. <i>Environmental Science & Technology</i> , 2001, 35, 863-873.	10.0	158
57	Sediment-water exchange of Mn, Fe, Ni and Zn in Galveston Bay, Texas. <i>Marine Chemistry</i> , 2001, 73, 215-231.	2.3	90
58	Isolation of colloidal monomethyl mercury in natural waters using cross-flow ultrafiltration techniques. <i>Marine Chemistry</i> , 2001, 76, 305-318.	2.3	22
59	Performance optimization of a commercially available iminodiacetate resin for the determination of Mn, Ni, Cu, Cd and Pb by on-line preconcentration inductively coupled plasma-mass spectrometry. <i>Analytica Chimica Acta</i> , 2000, 423, 265-276.	5.4	61
60	Benthic Exchange of Nutrients in Galveston Bay, Texas. <i>Estuaries and Coasts</i> , 2000, 23, 647.	1.7	49
61	Estuarine trace metal distributions in Galveston Bay: importance of colloidal forms in the speciation of the dissolved phase. <i>Marine Chemistry</i> , 1999, 63, 185-212.	2.3	240
62	Trace metal analysis of natural waters by ICP-MS with on-line preconcentration and ultrasonic nebulization. <i>Journal of Analytical Atomic Spectrometry</i> , 1999, 14, 247-252.	3.0	64
63	Sediment-Water Fluxes of Mercury in Lavaca Bay, Texas. <i>Environmental Science & Technology</i> , 1999, 33, 663-669.	10.0	155
64	Impact of the Clean Water Act on the Levels of Toxic Metals in Urban Estuaries: The Hudson River Estuary Revisited. <i>Environmental Science & Technology</i> , 1999, 33, 3477-3481.	10.0	68
65	Speciation and Cycling of Mercury in Lavaca Bay, Texas, Sediments. <i>Environmental Science & Technology</i> , 1999, 33, 7-13.	10.0	226
66	Methods for measuring mercury in rainfall and aerosols in Florida. <i>Atmospheric Environment</i> , 1998, 32, 909-918.	4.1	32
67	Mercury and major ions in rainfall, throughfall, and foliage from the Florida Everglades. <i>Science of the Total Environment</i> , 1998, 213, 43-51.	8.0	34
68	Investigation of Porewater Sampling Methods for Mercury and Methylmercury. <i>Environmental Science & Technology</i> , 1998, 32, 4031-4040.	10.0	65
69	Colloidal and Particulate Silver in River and Estuarine Waters of Texas. <i>Environmental Science & Technology</i> , 1997, 31, 723-731.	10.0	135
70	Production and Loss of Dissolved Gaseous Mercury in Coastal Seawater. <i>Environmental Science & Technology</i> , 1997, 31, 3606-3611.	10.0	223
71	Colloidal Pumping: Evidence for the Coagulation Process Using Natural Colloids Tagged with ^{203}Hg . <i>Environmental Science & Technology</i> , 1996, 30, 3335-3340.	10.0	77
72	An ultraclean cross-flow ultrafiltration technique for the study of trace metal phase speciation in seawater. <i>Marine Chemistry</i> , 1996, 55, 129-152.	2.3	121

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73	Mercury contamination in the Carson River, Nevada: A preliminary study of the impact of mining wastes. <i>Water, Air, and Soil Pollution</i> , 1996, 92, 391-408.	2.4	40
74	Mercury speciation in surface freshwater systems in California and other areas. <i>Environmental Science & Technology</i> , 1990, 24, 1392-1400.	10.0	233
75	Vertical mercury distributions in the oceans. <i>Geochimica Et Cosmochimica Acta</i> , 1988, 52, 1719-1728.	3.9	98
76	Mercury in surface waters of the open ocean. <i>Global Biogeochemical Cycles</i> , 1987, 1, 199-212.	4.9	68
77	Picomolar mercury measurements in seawater and other materials using stannous chloride reduction and two-stage gold amalgamation with gas phase detection. <i>Marine Chemistry</i> , 1987, 20, 227-243.	2.3	284
78	Mercury sampling of open ocean waters at the picomolar level. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1985, 32, 287-297.	1.5	144
79	Subnanogram determination of mercury by two-stage gold amalgamation and gas phase detection applied to atmospheric analysis. <i>Analytical Chemistry</i> , 1979, 51, 1714-1720.	6.5	369
80	The geochemistry of iron in puget sound. <i>Geochimica Et Cosmochimica Acta</i> , 1978, 42, 9-19.	3.9	130