

Gary A Gill

List of Publications by Year in descending order

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80
papers

5,788
citations

57758

44
h-index

74163

75
g-index

84
all docs

84
docs citations

84
times ranked

4001
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	Mercury speciation in surface freshwater systems in California and other areas. <i>Environmental Science & Technology</i> , 1990, 24, 1392-1400.	10.0	233
5	Speciation and Cycling of Mercury in Lavaca Bay, Texas, Sediments. <i>Environmental Science & Technology</i> , 1999, 33, 7-13.	10.0	226
6	Production and Loss of Dissolved Gaseous Mercury in Coastal Seawater. <i>Environmental Science & Technology</i> , 1997, 31, 3606-3611.	10.0	223
7	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
8	Processes Influencing Rainfall Deposition of Mercury in Florida. <i>Environmental Science & Technology</i> , 2001, 35, 863-873.	10.0	158
9	Sediment-Water Fluxes of Mercury in Lavaca Bay, Texas. <i>Environmental Science & Technology</i> , 1999, 33, 663-669.	10.0	155
10	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
11	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
12	Extracting Uranium from Seawater: Promising AF Series Adsorbents. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 4110-4117.	3.7	136
13	Colloidal and Particulate Silver in River and Estuarine Waters of Texas. <i>Environmental Science & Technology</i> , 1997, 31, 723-731.	10.0	135
14	The geochemistry of iron in puget sound. <i>Geochimica Et Cosmochimica Acta</i> , 1978, 42, 9-19.	3.9	130
15	Uranium Adsorbent Fibers Prepared by Atom-Transfer Radical Polymerization (ATRP) from Poly(vinyl Tj ETQq1 1 0.784314 rgBT /Over <i>Engineering Chemistry Research</i> , 2016, 55, 4139-4148.	3.7	128
16	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
17	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
18	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

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19	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
20	Vertical mercury distributions in the oceans. <i>Geochimica Et Cosmochimica Acta</i> , 1988, 52, 1719-1728.	3.9	98
21	Acetone-butanol fermentation of marine macroalgae. <i>Bioresource Technology</i> , 2012, 108, 305-309.	9.6	98
22	Sediment-water exchange of Mn, Fe, Ni and Zn in Galveston Bay, Texas. <i>Marine Chemistry</i> , 2001, 73, 215-231.	2.3	90
23	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
24	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
25	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
26	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
27	Concurrent photolytic degradation of aqueous methylmercury and dissolved organic matter. <i>Science of the Total Environment</i> , 2014, 484, 263-275.	8.0	71
28	Mercury in surface waters of the open ocean. <i>Global Biogeochemical Cycles</i> , 1987, 1, 199-212.	4.9	68
29	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
30	Investigation of Porewater Sampling Methods for Mercury and Methylmercury. <i>Environmental Science & Technology</i> , 1998, 32, 4031-4040.	10.0	65
31	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
32	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
33	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
34	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
35	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
36	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

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37	Surface functionalized nanostructured ceramic sorbents for the effective collection and recovery of uranium from seawater. <i>Dalton Transactions</i> , 2016, 45, 11312-11325.	3.3	56
38	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
39	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
40	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
41	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
42	Benthic Exchange of Nutrients in Galveston Bay, Texas. <i>Estuaries and Coasts</i> , 2000, 23, 647.	1.7	49
43	Silver concentrations in Colorado, USA, watersheds using improved methodology. <i>Environmental Toxicology and Chemistry</i> , 2002, 21, 2040-2051.	4.3	49
44	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
45	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
46	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
47	Distribution of particulate, colloidal, and dissolved mercury in San Francisco Bay estuary. 2. Methylmercury. <i>Limnology and Oceanography</i> , 2003, 48, 1547-1556.	3.1	38
48	Investigations into the Reusability of Amidoxime-Based Polymeric Adsorbents for Seawater Uranium Extraction. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 11603-11611.	3.7	38
49	Efficient Functionalization of Polyethylene Fibers for the Uranium Extraction from Seawater through Atom Transfer Radical Polymerization. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 10826-10832.	3.7	36
50	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
51	Methods for measuring mercury in rainfall and aerosols in Florida. <i>Atmospheric Environment</i> , 1998, 32, 909-918.	4.1	32
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	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
54	Temperature Dependence of Uranium and Vanadium Adsorption on Amidoxime-Based Adsorbents in Natural Seawater. <i>ChemistrySelect</i> , 2018, 3, 843-848.	1.5	32

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55	A highly efficient uranium grabber derived from acrylic fiber for extracting uranium from seawater. Dalton Transactions, 2020, 49, 2803-2810.	3.3	29
56	Macroporous monoliths for trace metal extraction from seawater. RSC Advances, 2015, 5, 50005-50010.	3.6	28
57	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
58	Bicarbonate Elution of Uranium from Amidoxime-Based Polymer Adsorbents for Sequestering Uranium from Seawater. ChemistrySelect, 2017, 2, 3769-3774.	1.5	27
59	Evaluation of gene expression changes in human primary uroepithelial cells following 24-hr exposures to inorganic arsenic and its methylated metabolites. Environmental and Molecular Mutagenesis, 2013, 54, 82-98.	2.2	26
60	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
61	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. Environmental Science & Technology, 2012, 46, 5772-5781.	10.0	24
62	Comparison of Analytical Methods for the Determination of Uranium in Seawater Using Inductively Coupled Plasma Mass Spectrometry. Industrial & Engineering Chemistry Research, 2016, 55, 4344-4350.	3.7	24
63	Flux of Total Mercury and Methylmercury to the Northern Gulf of Mexico from U.S. Estuaries. Environmental Science & Technology, 2015, 49, 13992-13999.	10.0	23
64	Isolation of colloidal monomethyl mercury in natural waters using cross-flow ultrafiltration techniques. Marine Chemistry, 2001, 76, 305-318.	2.3	22
65	Recent increase in atmospheric deposition of mercury to California aquatic systems inferred from a 300-year geochronological assessment of lake sediments. Applied Geochemistry, 2008, 23, 399-407.	3.0	20
66	Chemical and physical speciation of mercury in Offatts Bayou: A seasonally anoxic bayou in Galveston Bay. Limnology and Oceanography, 2007, 52, 1380-1392.	3.1	18
67	Development of a Kelp-Type Structure Module in a Coastal Ocean Model to Assess the Hydrodynamic Impact of Seawater Uranium Extraction Technology. Journal of Marine Science and Engineering, 2014, 2, 81-92.	2.6	17
68	Estuarine mixing behavior of colloidal organic carbon and colloidal mercury in Galveston Bay, Texas. Journal of Environmental Monitoring, 2011, 13, 1703.	2.1	15
69	Potential Impact of Seawater Uranium Extraction on Marine Life. Industrial & Engineering Chemistry Research, 2016, 55, 4278-4284.	3.7	15
70	The cycling and oxidation pathways of organic carbon in a shallow estuary along the Texas Gulf Coast. Estuarine, Coastal and Shelf Science, 2008, 76, 69-84.	2.1	14
71	Maritime Renewable Energy Markets: Power From the Sea. Marine Technology Society Journal, 2018, 52, 99-109.	0.4	14
72	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

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73	Bayesian Integration of Isotope Ratio for Geographic Sourcing of Castor Beans. Journal of Biomedicine and Biotechnology, 2012, 2012, 1-8.	3.0	10
74	Uranium Recovery from Seawater Using Amidoxime-Based Braided Polymers Synthesized from Acrylic Fibers. Industrial & Engineering Chemistry Research, 2020, 59, 13988-13996.	3.7	9
75	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
76	A Lithium Feedstock Pathway: Coupled Electrochemical Extraction and Direct Battery Materials Manufacturing. ACS Energy Letters, 2022, 7, 2420-2427.	17.4	9
77	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
78	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
79	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
80	Measurement background and the sediment age-dating reach of ³² Si. Journal of Radioanalytical and Nuclear Chemistry, 2016, 307, 2313-2319.	1.5	2