

Gail Chmura

List of Publications by Year in descending order

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Version: 2024-02-01

75
papers

6,644
citations

147726

31
h-index

91828

69
g-index

78
all docs

78
docs citations

78
times ranked

6566
citing authors

#	ARTICLE	IF	CITATIONS
1	A blueprint for blue carbon: toward an improved understanding of the role of vegetated coastal habitats in sequestering CO ₂ . <i>Frontiers in Ecology and the Environment</i> , 2011, 9, 552-560.	1.9	2,354
2	Global carbon sequestration in tidal, saline wetland soils. <i>Global Biogeochemical Cycles</i> , 2003, 17, n/a-n/a.	1.9	1,168
3	The future of Blue Carbon science. <i>Nature Communications</i> , 2019, 10, 3998.	5.8	406
4	Wetlands In a Changing Climate: Science, Policy and Management. <i>Wetlands</i> , 2018, 38, 183-205.	0.7	234
5	Assessing Coastal Squeeze of Tidal Wetlands. <i>Journal of Coastal Research</i> , 2013, 290, 1049-1061.	0.1	131
6	Methane and Carbon Dioxide Flux from a Macrotidal Salt Marsh, Bay of Fundy, New Brunswick. <i>Estuaries and Coasts</i> , 1996, 19, 139.	1.7	120
7	What do we need to assess the sustainability of the tidal salt marsh carbon sink?. <i>Ocean and Coastal Management</i> , 2013, 83, 25-31.	2.0	120
8	Dinoflagellate cyst records and human disturbance in two neighboring estuaries, New Bedford Harbor and Apponagansett Bay, Massachusetts (USA). <i>Science of the Total Environment</i> , 2002, 298, 81-102.	3.9	105
9	Natural climate solutions for Canada. <i>Science Advances</i> , 2021, 7, .	4.7	95
10	Carbon accumulation in bay of fundy salt marshes: Implications for restoration of reclaimed marshes. <i>Global Biogeochemical Cycles</i> , 2001, 15, 943-954.	1.9	93
11	Controls on salt marsh accretion: A test in salt marshes of Eastern Canada. <i>Estuaries and Coasts</i> , 2004, 27, 70-81.	1.7	91
12	Development of modern analogues for natural, mowed and grazed grasslands using pollen assemblages and coprophilous fungi. <i>Review of Palaeobotany and Palynology</i> , 2006, 141, 139-149.	0.8	89
13	Environmental factors influencing the spatial distribution of dinoflagellate cyst assemblages in shallow lagoons of southern New England (USA). <i>Review of Palaeobotany and Palynology</i> , 2004, 128, 7-34.	0.8	88
14	Poleward Expansion of the White-Footed Mouse (<i>Peromyscus leucopus</i>) under Climate Change: Implications for the Spread of Lyme Disease. <i>PLoS ONE</i> , 2013, 8, e80724.	1.1	77
15	An inventory of ¹³ C abundances in coastal wetlands of Louisiana, USA: vegetation and sediments. <i>Oecologia</i> , 1987, 74, 264-271.	0.9	74
16	Global-change effects on early-stage decomposition processes in tidal wetlands – implications from a global survey using standardized litter. <i>Biogeosciences</i> , 2018, 15, 3189-3202.	1.3	73
17	Sedimentary and botanical factors influencing peat accumulation in the Mississippi Delta. <i>Journal of the Geological Society</i> , 1987, 144, 423-434.	0.9	67
18	The Second Warning to Humanity – Providing a Context for Wetland Management and Policy. <i>Wetlands</i> , 2019, 39, 1-5.	0.7	67

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19	Mangroves as a major source of soil carbon storage in adjacent seagrass meadows. <i>Scientific Reports</i> , 2017, 7, 42406.	1.6	60
20	Pollen transport through distributaries and depositional patterns in coastal waters. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1999, 149, 257-270.	1.0	57
21	Non-pollen microfossils in Everglades sediments. <i>Review of Palaeobotany and Palynology</i> , 2006, 141, 103-119.	0.8	53
22	Pollen in the lower Mississippi River. <i>Review of Palaeobotany and Palynology</i> , 1990, 64, 253-261.	0.8	50
23	The greenhouse gas flux and potential global warming feedbacks of a northern macrotidal and microtidal salt marsh. <i>Environmental Research Letters</i> , 2011, 6, 044016.	2.2	49
24	Greenhouse Gas Fluxes from Salt Marshes Exposed to Chronic Nutrient Enrichment. <i>PLoS ONE</i> , 2016, 11, e0149937.	1.1	43
25	Mercury accumulation in surface sediments of salt marshes of the Bay of Fundy. <i>Environmental Pollution</i> , 2006, 142, 418-431.	3.7	41
26	Historical rates of salt marsh accretion on the outer Bay of Fundy. <i>Canadian Journal of Earth Sciences</i> , 2001, 38, 1081-1092.	0.6	39
27	An inventory of historical mercury emissions in Maritime Canada: implications for present and future contamination. <i>Science of the Total Environment</i> , 2000, 256, 39-57.	3.9	38
28	Modelling coastal marsh stability in response to sea level rise: a case study in coastal Louisiana, USA. <i>Ecological Modelling</i> , 1992, 64, 47-64.	1.2	36
29	Changes in saltmarsh surface elevation due to variability in evapotranspiration and tidal flooding. <i>Estuaries and Coasts</i> , 2004, 27, 82-89.	1.7	36
30	Climatic Controls of the Middle Marsh Zone in the Bay of Fundy. <i>Estuaries and Coasts</i> , 1997, 20, 689.	1.7	34
31	Environmental stress and recovery: the geochemical record of human disturbance in New Bedford Harbor and Apponagansett Bay, Massachusetts (USA). <i>Science of the Total Environment</i> , 2003, 313, 153-176.	3.9	34
32	Reconciling models and measurements to assess trends in atmospheric mercury deposition. <i>Environmental Pollution</i> , 2008, 156, 526-535.	3.7	32
33	Response of three paleo-primary production proxy measures to development of an urban estuary. <i>Science of the Total Environment</i> , 2004, 320, 225-243.	3.9	29
34	The importance of geomorphic context for estimating the carbon stock of salt marshes. <i>Geoderma</i> , 2018, 330, 264-275.	2.3	28
35	A new Shoreline displacement model for the last 7 ka from eastern James Bay, Canada. <i>Quaternary Research</i> , 2010, 73, 474-484.	1.0	26
36	Spatial distribution of suspended pollen in the Mississippi River as an example of pollen transport in alluvial channels. <i>Review of Palaeobotany and Palynology</i> , 1996, 92, 69-81.	0.8	25

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37	Impacts of Sea Level Rise on Marsh as Fish Habitat. <i>Estuaries and Coasts</i> , 2015, 38, 1288-1303.	1.0	25
38	Benthic microalgae offset the sediment carbon dioxide emission in subtropical mangrove in cold seasons. <i>Limnology and Oceanography</i> , 2019, 64, 1297-1308.	1.6	25
39	An Enigmatic Carbonate Layer in Everglades Tree Island Peats. <i>Eos</i> , 2008, 89, 117-118.	0.1	24
40	Biogeography of dinoflagellate cysts in northwest Atlantic estuaries. <i>Ecology and Evolution</i> , 2016, 6, 5648-5662.	0.8	24
41	Storm Deposition and ¹³⁷ Cs Accumulation in Fine-grained Marsh Sediments of the Mississippi Delta Plain. <i>Estuarine, Coastal and Shelf Science</i> , 1994, 39, 33-44.	0.9	23
42	The history of mercury emissions from fuel combustion in Maritime Canada. <i>Environmental Pollution</i> , 2000, 110, 297-306.	3.7	23
43	The Legacy of Agricultural Reclamation on Channel and Pool Networks of Bay of Fundy Salt Marshes. <i>Estuaries and Coasts</i> , 2010, 33, 151-160.	1.0	23
44	Rapid carbon accumulation following managed realignment on the Bay of Fundy. <i>PLoS ONE</i> , 2018, 13, e0193930.	1.1	23
45	Palynomorph distribution in marsh environments in the modern Mississippi Delta plain. <i>Bulletin of the Geological Society of America</i> , 1994, 106, 705.	1.6	22
46	Potential Pitfalls of Pollen Dating. <i>Radiocarbon</i> , 2013, 55, 1142-1155.	0.8	22
47	Effect of nutrient pollution on dinoflagellate cyst assemblages across estuaries of the NW Atlantic. <i>Marine Pollution Bulletin</i> , 2017, 121, 339-351.	2.3	22
48	The effect of global climate change on the future distribution of economically important macroalgae (seaweeds) in the northwest Atlantic. <i>Facets</i> , 2018, 3, 275-286.	1.1	22
49	Nitrous oxide emissions could reduce the blue carbon value of marshes on eutrophic estuaries. <i>Environmental Research Letters</i> , 2018, 13, 044034.	2.2	20
50	Metal accumulation in surface salt marsh sediments of the Bay of Fundy, Canada. <i>Estuaries and Coasts</i> , 2007, 30, 725-734.	1.0	18
51	Future sea surface temperatures in Large Marine Ecosystems of the Northwest Atlantic. <i>ICES Journal of Marine Science</i> , 2013, 70, 915-921.	1.2	17
52	Dinoflagellate Cysts Track Eutrophication in the Northern Gulf of Mexico. <i>Estuaries and Coasts</i> , 2018, 41, 1322-1336.	1.0	16
53	Recovering Salt Marsh Ecosystem Services through Tidal Restoration. , 2012, , 233-251.		14
54	Pollen distribution in the Atchafalaya river, U.S.A.. <i>Palynology</i> , 1994, 18, 55-65.	0.7	11

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55	Utility of microforaminifera test linings in palynological preparations. <i>Palynology</i> , 1995, 19, 77-84.	0.7	11
56	Observations on Shallow Subsurface Hydrology at Bay of Fundy Macrotidal Salt Marshes. <i>Journal of Coastal Research</i> , 2014, 297, 1006-1016.	0.1	11
57	Invasive <i>Phragmites</i> Increases Blue Carbon Stock and Soil Volume in a St. Lawrence Estuary Marsh. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2019JG005473.	1.3	10
58	<i>Melitasphaeridium choanophorum</i> – a living fossil dinoflagellate cyst in the Gulf of Mexico. <i>Palynology</i> , 2017, 41, 351-358.	0.7	9
59	Pollen–vegetation relationships in Bay of Fundy salt marshes. <i>Canadian Journal of Botany</i> , 2004, 82, 663-670.	1.2	8
60	Greenhouse gas flux with reflooding of a drained salt marsh soil. <i>PeerJ</i> , 2018, 6, e5659.	0.9	8
61	A high-resolution record of carbon accumulation rates during boreal peatland initiation. <i>Biogeosciences</i> , 2012, 9, 2711-2717.	1.3	7
62	The utility of Nymphaeaceae sclereids in paleoenvironmental research. <i>Review of Palaeobotany and Palynology</i> , 2012, 169, 29-37.	0.8	6
63	Calibration of pollen assemblages and carbon–nitrogen ratios to discriminate boreal wetland types. <i>Review of Palaeobotany and Palynology</i> , 2012, 174, 48-56.	0.8	6
64	Spatial and Environmental Variability of Pools on a Natural and a Recovering Salt Marsh in the Bay of Fundy. <i>Journal of Coastal Research</i> , 2011, 276, 847-856.	0.1	5
65	Potential Pitfalls of Pollen Dating. <i>Radiocarbon</i> , 2013, 55, .	0.8	4
66	High resolution carbon stock and soil data for three salt marshes along the northeastern coast of North America. <i>Data in Brief</i> , 2018, 19, 2438-2441.	0.5	4
67	Tidal Marsh Sediment and Carbon Accretion on a Geomorphologically Dynamic Coastline. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2021JG006507.	1.3	3
68	The Younger Dryas in palynological records from the northern Northwest Atlantic: Does the terrestrial record lag the marine and air records?. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2018, 490, 269-279.	1.0	2
69	<i>Spartina alterniflora</i> has the highest methane emissions in a St. Lawrence estuary salt marsh. , 2022, 1, 011003.		2
70	Contribution of belowground plant components to salt marsh soil volume. <i>Estuarine, Coastal and Shelf Science</i> , 2022, 275, 107974.	0.9	1
71	Reinterpretation of past sea-level variation of the Bay of Fundy. <i>Holocene</i> , 2010, 20, 7-11.	0.9	0
72	Bringing climate scientist’s tools into classrooms to improve conceptual understandings. <i>Journal of Environmental Studies and Sciences</i> , 2019, 9, 25-34.	0.9	0

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73	Upland Migration of North American Salt Marshes. , 2021, , 423-442.		0
74	Applying Airborne LiDAR to Map Salt Marsh Inland Boundaries. Remote Sensing, 2021, 13, 4245.	1.8	0
75	Photographic Monitoring of Blooming of Critical Salt Marsh Nectar Sources by Citizen Scientists. Northeastern Naturalist, 2021, 28, .	0.1	0