

Michael Fettweis

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

1,373
citations

304743

22
h-index

345221

36
g-index

43
all docs

43
docs citations

43
times ranked

1148
citing authors

#	ARTICLE	IF	CITATIONS
1	Suspended particulate matter dynamics and aggregate sizes in a high turbidity area. <i>Marine Geology</i> , 2006, 235, 63-74.	2.1	104
2	Seasonal, Neap-spring and Tidal Variation of Cohesive Sediment Concentration in the Scheldt Estuary, Belgium. <i>Estuarine, Coastal and Shelf Science</i> , 1998, 47, 21-36.	2.1	101
3	An estimate of the suspended particulate matter (SPM) transport in the southern North Sea using SeaWiFS images, in situ measurements and numerical model results. <i>Continental Shelf Research</i> , 2007, 27, 1568-1583.	1.8	90
4	Multimodality of a particle size distribution of cohesive suspended particulate matters in a coastal zone. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	82
5	Uncertainty of excess density and settling velocity of mud flocs derived from in situ measurements. <i>Estuarine, Coastal and Shelf Science</i> , 2008, 78, 426-436.	2.1	74
6	The mud deposits and the high turbidity in the Belgianâ€™Dutch coastal zone, southern bight of the North Sea. <i>Continental Shelf Research</i> , 2003, 23, 669-691.	1.8	69
7	Seasonal variation in concentration, size, and settling velocity of muddy marine flocs in the benthic boundary layer. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 5648-5667.	2.6	66
8	Competition between kaolinite flocculation and stabilization in divalent cation solutions dosed with anionic polyacrylamides. <i>Water Research</i> , 2012, 46, 5696-5706.	11.3	56
9	Sediment mobility in response to tidal and wind-driven flows along the Belgian inner shelf, southern North Sea. <i>Ocean Dynamics</i> , 2011, 61, 611-622.	2.2	48
10	Flocculation with heterogeneous composition in water environments: A review. <i>Water Research</i> , 2022, 213, 118147.	11.3	45
11	Storm influence on SPM concentrations in a coastal turbidity maximum area with high anthropogenic impact (southern North Sea). <i>Continental Shelf Research</i> , 2010, 30, 1417-1427.	1.8	43
12	Seasonal Dynamics of Organic Matter Composition and Its Effects on Suspended Sediment Flocculation in River Water. <i>Water Resources Research</i> , 2019, 55, 6968-6985.	4.2	43
13	Monitoring the effects of disposal of fine sediments from maintenance dredging on suspended particulate matter concentration in the Belgian nearshore area (southern North Sea). <i>Marine Pollution Bulletin</i> , 2011, 62, 258-269.	5.0	41
14	In situ observations of suspended particulate matter plumes at an offshore wind farm, southern North Sea. <i>Geo-Marine Letters</i> , 2015, 35, 247-255.	1.1	39
15	Seasonality of flocculation strength in the southern North Sea. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 1911-1926.	2.6	37
16	A tri-modal flocculation model coupled with TELEMAC for estuarine muds both in the laboratory and in the field. <i>Water Research</i> , 2018, 145, 473-486.	11.3	35
17	Hydro-meteorological influences and multimodal suspended particle size distributions in the Belgian nearshore area (southern North Sea). <i>Geo-Marine Letters</i> , 2012, 32, 123-137.	1.1	34
18	Spatial and Seasonal Variation of Biomineral Suspended Particulate Matter Properties in High-Turbid Nearshore and Low-Turbid Offshore Zones. <i>Water (Switzerland)</i> , 2017, 9, 694.	2.7	34

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19	Multimodal particle size distributions of fine-grained sediments: mathematical modeling and field investigation. <i>Ocean Dynamics</i> , 2014, 64, 429-441.	2.2	33
20	Weather and climate induced spatial variability of surface suspended particulate matter concentration in the North Sea and the English Channel. <i>Methods in Oceanography</i> , 2012, 3-4, 25-39.	1.6	30
21	Benthic variability in intertidal soft-sediments in the mesohaline part of the Schelde estuary. <i>Hydrobiologia</i> , 2005, 540, 197-216.	2.0	29
22	Historic (1900) seafloor composition in the Belgian-Dutch part of the North Sea: A reconstruction based on calibrated visual sediment descriptions. <i>Continental Shelf Research</i> , 2011, 31, 1043-1056.	1.8	26
23	Long-term influence of maritime access works on the distribution of cohesive sediments: analysis of historical and recent data from the Belgian nearshore area (southern North Sea). <i>Geo-Marine Letters</i> , 2009, 29, 321-330.	1.1	21
24	Biophysical flocculation of suspended particulate matters in Belgian coastal zones. <i>Journal of Hydrology</i> , 2018, 567, 238-252.	5.4	21
25	Quantitative clay mineralogy as provenance indicator for recent muds in the southern North Sea. <i>Marine Geology</i> , 2018, 398, 48-58.	2.1	20
26	Uncertainties associated with in situ high-frequency long-term observations of suspended particulate matter concentration using optical and acoustic sensors. <i>Progress in Oceanography</i> , 2019, 178, 102162.	3.2	20
27	Detection of shipwrecks in ocean colour satellite imagery. <i>Journal of Archaeological Science</i> , 2016, 66, 1-6.	2.4	16
28	Organic Matter Composition of Biomineral Floccs and Its Influence on Suspended Particulate Matter Dynamics Along a Nearshore to Offshore Transect. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, e2021JG006332.	3.0	16
29	The impact of disposal of fine-grained sediments from maintenance dredging works on SPM concentration and fluid mud in and outside the harbor of Zeebrugge. <i>Ocean Dynamics</i> , 2016, 66, 1497-1516.	2.2	14
30	Formation of the Zeebrugge coastal turbidity maximum: The role of uncertainty in near-bed exchange processes. <i>Marine Geology</i> , 2020, 425, 106186.	2.1	14
31	Investigating suspended particulate matter in coastal waters using the fractal theory. <i>Ocean Dynamics</i> , 2019, 69, 59-81.	2.2	11
32	A quasi-Monte Carlo based flocculation model for fine-grained cohesive sediments in aquatic environments. <i>Water Research</i> , 2021, 194, 116953.	11.3	10
33	Tidally Driven Dispersion of a Deep-Sea Sediment Plume Originating from Seafloor Disturbance in the DISCOL Area (SE-Pacific Ocean). <i>Geosciences (Switzerland)</i> , 2022, 12, 8.	2.2	10
34	Mine burial in the seabed of high-turbidity area—Findings of a first experiment. <i>Continental Shelf Research</i> , 2012, 43, 107-119.	1.8	9
35	An Approach to Modeling Biofilm Growth During the Flocculation of Suspended Cohesive Sediments. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 4098-4116.	2.6	9
36	Mud dynamics in the Port of Zeebrugge. <i>Ocean Dynamics</i> , 2019, 69, 1085-1099.	2.2	7

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37	Simulating multimodal flocculation size distributions of suspended cohesive sediments with lognormal subordinates: Comparison with mixing jar and settling column experiments. <i>Coastal Engineering</i> , 2019, 148, 36-48.	4.0	5
38	Tidal flow simulation in the English Channel and Southern North Sea. <i>Advances in Water Resources</i> , 1989, 12, 194-203.	3.8	4
39	Surface suspended particulate matter concentration in the Taiwan Strait during summer and winter monsoons. <i>Ocean Dynamics</i> , 2016, 66, 1517-1527.	2.2	4
40	Modeling Stormâ€influenced Suspended Particulate Matter Flocculation Using a Tideâ€Waveâ€Combined Biomineral Model. <i>Water Environment Research</i> , 2018, 90, 244-257.	2.7	3
41	Seasonal variability of suspended particulate matter observed from SeaWiFS images near the Belgian coast. <i>Proceedings in Marine Science</i> , 2007, 8, 291-311.	0.1	0
42	Editorial to the topical collection INTERCOH 2015. <i>Ocean Dynamics</i> , 2019, 69, 405-407.	2.2	0