

# Kate L Spencer

## List of Publications by Year in descending order

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Version: 2024-02-01

45  
papers

1,356  
citations

331670

21  
h-index

361022

35  
g-index

45  
all docs

45  
docs citations

45  
times ranked

1605  
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal fate and effects in estuaries: A review and conceptual model for better understanding of toxicity. <i>Science of the Total Environment</i> , 2016, 541, 268-281.	8.0	237
2	Heavy metal distribution and early-diagenesis in salt marsh sediments from the Medway Estuary, Kent, UK. <i>Estuarine, Coastal and Shelf Science</i> , 2003, 57, 43-54.	2.1	108
3	Spatial variability of metals in the inter-tidal sediments of the Medway Estuary, Kent, UK. <i>Marine Pollution Bulletin</i> , 2002, 44, 933-944.	5.0	86
4	Understanding system disturbance and ecosystem services in restored saltmarshes: Integrating physical and biogeochemical processes. <i>Estuarine, Coastal and Shelf Science</i> , 2012, 106, 23-32.	2.1	71
5	Flocculation with heterogeneous composition in water environments: A review. <i>Water Research</i> , 2022, 213, 118147.	11.3	45
6	The distribution of acid-volatile sulfide and simultaneously extracted metals in sediments from a mangrove forest and adjacent mudflat in Zhangjiang Estuary, China. <i>Marine Pollution Bulletin</i> , 2010, 60, 1209-1216.	5.0	43
7	Heavy metal distribution and accumulation in two <i>Spartina</i> sp.-dominated macrotidal salt marshes from the Seine estuary (France) and the Medway estuary (UK). <i>Applied Geochemistry</i> , 2005, 20, 1195-1208.	3.0	41
8	Potential pollution risks of historic landfills on low-lying coasts and estuaries. <i>Wiley Interdisciplinary Reviews: Water</i> , 2018, 5, e1264.	6.5	41
9	The impact of pre-restoration land-use and disturbance on sediment structure, hydrology and the sediment geochemical environment in restored saltmarshes. <i>Science of the Total Environment</i> , 2017, 587-588, 47-58.	8.0	40
10	Physicochemical changes in sediments at Orplands Farm, Essex, UK following 8 years of managed realignment. <i>Estuarine, Coastal and Shelf Science</i> , 2008, 76, 608-619.	2.1	39
11	Modified sediments and subsurface hydrology in natural and recreated salt marshes and implications for delivery of ecosystem services. <i>Hydrological Processes</i> , 2015, 29, 2346-2357.	2.6	38
12	The contaminant legacy from historic coastal landfills and their potential as sources of diffuse pollution. <i>Marine Pollution Bulletin</i> , 2018, 128, 446-455.	5.0	37
13	Systematic Analysis of the Relative Abundance of Polymers Occurring as Microplastics in Freshwaters and Estuaries. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 9304.	2.6	34
14	An appraisal of microwave-assisted Tessier and BCR sequential extraction methods for the analysis of metals in sediments and soils. <i>Journal of Soils and Sediments</i> , 2011, 11, 518-528.	3.0	31
15	Unbounded boundaries and shifting baselines: Estuaries and coastal seas in a rapidly changing world. <i>Estuarine, Coastal and Shelf Science</i> , 2017, 198, 311-319.	2.1	31
16	A structure–function based approach to floc hierarchy and evidence for the non-fractal nature of natural sediment flocs. <i>Scientific Reports</i> , 2021, 11, 14012.	3.3	30
17	Dynamic interactions between cohesive sediment tracers and natural mud. <i>Journal of Soils and Sediments</i> , 2010, 10, 1401-1414.	3.0	28
18	Coastal Landfills and Rising Sea Levels: A Challenge for the 21st Century. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	27

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19	Unravelling metal mobility under complex contaminant signatures. <i>Science of the Total Environment</i> , 2018, 622-623, 373-384.	8.0	25
20	The effects of sulfur amendments on the geochemistry of sulfur, phosphorus and iron in the mangrove plant ( <i>Kandelia obovata</i> (S. L.)) rhizosphere. <i>Marine Pollution Bulletin</i> , 2017, 114, 733-741.	5.0	24
21	Quantifying the Structure and Composition of Flocculated Suspended Particulate Matter Using Focused Ion Beam Nanotomography. <i>Environmental Science &amp; Technology</i> , 2017, 51, 8917-8925.	10.0	24
22	Integrated and Sustainable Management of Post-industrial Coasts. <i>Frontiers in Environmental Science</i> , 2020, 8, .	3.3	23
23	A novel tracer technique for the assessment of fine sediment dynamics in urban water management systems. <i>Water Research</i> , 2011, 45, 2595-2606.	11.3	21
24	Resistance of salt marsh substrates to near-instantaneous hydrodynamic forcing. <i>Earth Surface Processes and Landforms</i> , 2021, 46, 67-88.	2.5	21
25	Source and distribution of trace metals in the Medway and Swale estuaries, Kent, UK. <i>Marine Pollution Bulletin</i> , 2006, 52, 226-230.	5.0	18
26	Sediment characteristics of a restored saltmarsh and mudflat in a managed realignment scheme in Southeast England. <i>Hydrobiologia</i> , 2011, 672, 79-89.	2.0	17
27	Sediment structure and physicochemical changes following tidal inundation at a large open coast managed realignment site. <i>Science of the Total Environment</i> , 2019, 660, 1419-1432.	8.0	15
28	Effect of vegetation cover and sediment type on 3D subsurface structure and shear strength in saltmarshes. <i>Earth Surface Processes and Landforms</i> , 2021, 46, 2279-2297.	2.5	15
29	Potential contamination of the coastal zone by eroding historic landfills. <i>Marine Pollution Bulletin</i> , 2019, 146, 282-291.	5.0	14
30	Development of novel 2D and 3D correlative microscopy to characterise the composition and multiscale structure of suspended sediment aggregates. <i>Continental Shelf Research</i> , 2020, 200, 104112.	1.8	14
31	Pore, live root and necromass quantification in complex heterogeneous wetland soils using X-ray computed tomography. <i>Geoderma</i> , 2021, 387, 114898.	5.1	14
32	Vegetation interactions with geotechnical properties and erodibility of salt marsh sediments. <i>Estuarine, Coastal and Shelf Science</i> , 2022, 265, 107713.	2.1	11
33	A Model-Based Analysis of Metal Fate in the Thames Estuary. <i>Estuaries and Coasts</i> , 2019, 42, 1185-1201.	2.2	10
34	Will flooding or erosion of historic landfills result in a significant release of soluble contaminants to the coastal zone?. <i>Science of the Total Environment</i> , 2020, 724, 138150.	8.0	10
35	The development of rare earth element-labelled potassium-depleted clays for use as cohesive sediment tracers in aquatic environments. <i>Journal of Soils and Sediments</i> , 2011, 11, 1052-1061.	3.0	9
36	There is no such thing as ‘undisturbed’ soil and sediment sampling: sampler-induced deformation of salt marsh sediments revealed by 3D X-ray computed tomography. <i>Journal of Soils and Sediments</i> , 2020, 20, 2960-2976.	3.0	9

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37	Sorption of lanthanum onto clay minerals: a potential tracer for fine sediment transport in the coastal marine environment?. Geological Society Special Publication, 2007, 274, 17-24.	1.3	8
38	Temporal and spatial distributions of sediment mercury in restored coastal saltmarshes. Marine Chemistry, 2014, 167, 150-159.	2.3	8
39	Risk screening assessment for ranking historic coastal landfills by pollution risk. Anthropocene Coasts, 2018, 1, 44-61.	1.5	8
40	Accumulation of trace metals in freshwater macroinvertebrates across metal contamination gradients. Environmental Pollution, 2021, 276, 116721.	7.5	7
41	Quantification of 3-dimensional structure and properties of flocculated natural suspended sediment. Water Research, 2022, 222, 118835.	11.3	7
42	Potential contaminant release from agricultural soil and dredged sediment following managed realignment. Journal of Soils and Sediments, 2012, 12, 1581-1592.	3.0	6
43	The role of vegetation in the retention of fine sediment and associated metal contaminants in London's rivers. Earth Surface Processes and Landforms, 2014, 39, 1115-1127.	2.5	6
44	Coastal Landfills, Rising Sea Levels and Shoreline Management: A Challenge for the 21st Century. , 2020, , .		3
45	The Impact of Metal-Rich Sediments Derived from Mining on Freshwater Stream Life. Reviews of Environmental Contamination and Toxicology, 2018, 248, 111-189.	1.3	2