

Peter R Teasdale

List of Publications by Year in descending order

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108
papers

4,480
citations

76326

40
h-index

118850

62
g-index

110
all docs

110
docs citations

110
times ranked

4013
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of urbanization on coastal wetland structure and function. <i>Austral Ecology</i> , 2006, 31, 149-163.	1.5	298
2	Removing ammonium from water and wastewater using cost-effective adsorbents: A review. <i>Journal of Environmental Sciences</i> , 2018, 63, 174-197.	6.1	205
3	In situ, High-Resolution Measurement of Dissolved Sulfide Using Diffusive Gradients in Thin Films with Computer-Imaging Densitometry. <i>Analytical Chemistry</i> , 1999, 71, 2186-2191.	6.5	188
4	Synthesis and characterisation of a polyacrylamide-polyacrylic acid copolymer hydrogel for environmental analysis of Cu and Cd. <i>Reactive and Functional Polymers</i> , 2002, 52, 31-41.	4.1	161
5	New Diffusive Gradients in a Thin Film Technique for Measuring Inorganic Arsenic and Selenium(IV) Using a Titanium Dioxide Based Adsorbent. <i>Analytical Chemistry</i> , 2010, 82, 7401-7407.	6.5	123
6	Molecular recognition using conducting polymers: basis of an electrochemical sensing technology-Plenary lecture. <i>Analyst, The</i> , 1993, 118, 329-334.	3.5	111
7	Titanium Dioxide-Based DGT Technique for In Situ Measurement of Dissolved Reactive Phosphorus in Fresh and Marine Waters. <i>Environmental Science & Technology</i> , 2010, 44, 9419-9424.	10.0	97
8	Speciation of Dissolved Inorganic Arsenic by Diffusive Gradients in Thin Films: Selective Binding of As ^{III} by 3-Mercaptopropyl-Functionalized Silica Gel. <i>Analytical Chemistry</i> , 2011, 83, 8293-8299.	6.5	92
9	Investigation of recreational boats as a source of copper at anchorage sites using time-integrated diffusive gradients in thin film and sediment measurements. <i>Marine Pollution Bulletin</i> , 2004, 49, 833-843.	5.0	87
10	Pore water sampling with sediment peepers. <i>TrAC - Trends in Analytical Chemistry</i> , 1995, 14, 250-256.	11.4	84
11	Diffusive Gradients in Thin Films Reveals Differences in Antimony and Arsenic Mobility in a Contaminated Wetland Sediment during an Oxidic-Anoxic Transition. <i>Environmental Science & Technology</i> , 2018, 52, 1118-1127.	10.0	84
12	Investigating the distribution and sources of organic matter in surface sediment of Coombabah Lake (Australia) using elemental, isotopic and fatty acid biomarkers. <i>Continental Shelf Research</i> , 2008, 28, 2535-2549.	1.8	80
13	Representative measurement of two-dimensional reactive phosphate distributions and co-distributed iron(II) and sulfide in seagrass sediment porewaters. <i>Chemosphere</i> , 2011, 85, 1256-1261.	8.2	79
14	Geochemical cycling and speciation of copper in waters and sediments of Macquarie Harbour, Western Tasmania. <i>Estuarine, Coastal and Shelf Science</i> , 2003, 57, 475-487.	2.1	77
15	Evaluation of the Diffusive Gradient in a Thin Film Technique for Monitoring Trace Metal Concentrations in Estuarine Waters. <i>Environmental Science & Technology</i> , 2003, 37, 2794-2800.	10.0	77
16	Evaluation of the in situ, time-integrated DGT technique by monitoring changes in heavy metal concentrations in estuarine waters. <i>Environmental Pollution</i> , 2007, 148, 213-220.	7.5	74
17	Investigating Arsenic Speciation and Mobilization in Sediments with DGT and DET: A Mesocosm Evaluation of Oxidic-Anoxic Transitions. <i>Environmental Science & Technology</i> , 2012, 46, 3981-3989.	10.0	72
18	Titanium dioxide-based DGT for measuring dissolved As(V), V(V), Sb(V), Mo(VI) and W(VI) in water. <i>Talanta</i> , 2013, 105, 80-86.	5.5	72

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37	Antimony and arsenic exhibit contrasting spatial distributions in the sediment and vegetation of a contaminated wetland. <i>Chemosphere</i> , 2017, 180, 388-395.	8.2	46
38	Benthic metabolism and nitrogen dynamics in a sub-tropical coastal lagoon: Microphytobenthos stimulate nitrification and nitrate reduction through photosynthetic oxygen evolution. <i>Estuarine, Coastal and Shelf Science</i> , 2012, 113, 272-282.	2.1	45
39	Evaluation of DGT techniques for measuring inorganic uranium species in natural waters: Interferences, deployment time and speciation. <i>Analytica Chimica Acta</i> , 2012, 739, 37-46.	5.4	44
40	Comparing dissolved reactive phosphorus measured by DGT with ferrihydrite and titanium dioxide adsorbents: Anionic interferences, adsorbent capacity and deployment time. <i>Analytica Chimica Acta</i> , 2011, 698, 20-26.	5.4	40
41	DGT Measurement of Dissolved Aluminum Species in Waters: Comparing Chelex-100 and Titanium Dioxide-Based Adsorbents. <i>Environmental Science & Technology</i> , 2012, 46, 2267-2275.	10.0	40
42	Cu and Zn Concentration Gradients Created by Dilution of pH Neutral Metal-Spiked Marine Sediment: A Comparison of Sediment Geochemistry with Direct Methods of Metal Addition. <i>Environmental Science & Technology</i> , 2008, 42, 2912-2918.	10.0	39
43	The effect of manipulating sediment pH on the porewater chemistry of copper- and zinc-spiked sediments. <i>Chemosphere</i> , 2007, 69, 1089-1099.	8.2	38
44	Practical improvements for redox potential (EH) measurements and the application of a multiple-electrode redox probe (MERP) for characterising sediment in situ. <i>Analytica Chimica Acta</i> , 1998, 367, 201-213.	5.4	37
45	A systematic determination of diffusion coefficients of trace elements in open and restricted diffusive layers used by the diffusive gradients in a thin film technique. <i>Analytica Chimica Acta</i> , 2015, 888, 146-154.	5.4	37
46	Development and evaluation of the diffusive gradients in thin films technique for measuring nitrate in freshwaters. <i>Analytica Chimica Acta</i> , 2016, 923, 74-81.	5.4	37
47	Influence of natural amphipod (<i>Victoriopisa australiensis</i>) (Chilton, 1923) population densities on benthic metabolism, nutrient fluxes, denitrification and DNRA in sub-tropical estuarine sediment. <i>Hydrobiologia</i> , 2009, 628, 95-109.	2.0	36
48	Evaluation of a titanium dioxide-based DGT technique for measuring inorganic uranium species in fresh and marine waters. <i>Talanta</i> , 2012, 97, 550-556.	5.5	36
49	Development and evaluation of a diffusive gradients in a thin film technique for measuring ammonium in freshwaters. <i>Analytica Chimica Acta</i> , 2016, 904, 83-91.	5.4	36
50	A comparison of mechanical responses for microbial- and enzyme-induced cemented sand. <i>Geotechnique Letters</i> , 2020, 10, 559-567.	1.2	34
51	Influence of <i>Trypaea australiensis</i> population density on benthic metabolism and nitrogen dynamics in sandy estuarine sediment: A mesocosm simulation. <i>Journal of Sea Research</i> , 2009, 61, 144-152.	1.6	33
52	In situ biochar capping is feasible to control ammonia nitrogen release from sediments evaluated by DGT. <i>Chemical Engineering Journal</i> , 2019, 374, 811-821.	12.7	33
53	Selective determination of Cr(VI) oxyanions using a poly-3-methylthiophene-modified electrode. <i>Electroanalysis</i> , 1989, 1, 541-547.	2.9	32
54	Use of flathead mullet (<i>Mugil cephalus</i>) in coastal biomonitor studies: Review and recommendations for future studies. <i>Marine Pollution Bulletin</i> , 2013, 69, 195-205.	5.0	31

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55	Contaminants in water, sediment and fish biomonitor species from natural and artificial estuarine habitats along the urbanized Gold Coast, Queensland. <i>Journal of Environmental Monitoring</i> , 2011, 13, 3409.	2.1	29
56	Optimization of colorimetric DET technique for the in situ, two-dimensional measurement of iron(II) distributions in sediment porewaters. <i>Talanta</i> , 2012, 88, 490-495.	5.5	28
57	Characterizing microbial communities and processes in a modern stromatolite (<sc>S</sc>hark) Tj ETQq1 1 0.784314 rgBT /Overl Environmental Microbiology, 2014, 16, 2458-2474.	3.8	28
58	A modified DGT technique for the simultaneous measurement of dissolved inorganic nitrogen and phosphorus in freshwaters. <i>Analytica Chimica Acta</i> , 2017, 988, 17-26.	5.4	28
59	Transport across stand-alone conducting polypyrrole membranes containing dodecylsulfate counterions. <i>Reactive & Functional Polymers</i> , 1994, 23, 213-220.	0.8	25
60	In situ characterization of conducting polymers by measuring dynamic contact angles with Wilhelmy's plate technique. <i>Reactive & Functional Polymers</i> , 1995, 24, 157-164.	0.8	25
61	Lipid Biomarker and Isotopic Study of Community Distribution and Biomarker Preservation in a Laminated Microbial Mat from Shark Bay, Western Australia. <i>Microbial Ecology</i> , 2015, 70, 459-472.	2.8	25
62	Diffusive Gradients in Thin Films (DGT) Techniques Provide Representative Time-Weighted Average Measurements of Inorganic Nutrients in Dynamic Freshwater Systems. <i>Environmental Science & Technology</i> , 2016, 50, 13446-13454.	10.0	24
63	Decomposition of jellyfish carrion in situ: Short-term impacts on infauna, benthic nutrient fluxes and sediment redox conditions. <i>Science of the Total Environment</i> , 2016, 566-567, 929-937.	8.0	24
64	Development and evaluation of a new diffusive gradients in thin-films technique for measuring organotin compounds in coastal sediment pore water. <i>Talanta</i> , 2018, 178, 670-678.	5.5	23
65	A ferricyanide-mediated activated sludge bioassay for fast determination of the biochemical oxygen demand of wastewaters. <i>Water Research</i> , 2010, 44, 5981-5988.	11.3	22
66	A sensitive ferricyanide-mediated biochemical oxygen demand assay for analysis of wastewater treatment plant influents and treated effluents. <i>Water Research</i> , 2013, 47, 841-849.	11.3	21
67	Comparing in situ colorimetric DET and DGT techniques with ex situ core slicing and centrifugation for measuring ferrous iron and dissolved sulfide in coastal sediment pore waters. <i>Chemosphere</i> , 2017, 188, 119-129.	8.2	20
68	A case study investigating the occurrence of geosmin and 2-methylisoborneol (MIB) in the surface waters of the Hinze Dam, Gold Coast, Australia. <i>Water Science and Technology</i> , 2007, 55, 231-238.	2.5	19
69	Modelling copper uptake by <i>Saccostrea glomerata</i> with diffusive gradients in a thin film measurements. <i>Environmental Chemistry</i> , 2008, 5, 274.	1.5	19
70	Distribution of nutrients in surface and sub-surface sediments of Coombabah Lake, southern Moreton Bay (Australia). <i>Marine Pollution Bulletin</i> , 2007, 54, 606-614.	5.0	18
71	Evaluating use of ferricyanide-mediated respiration bioassays to quantify stimulatory and inhibitory effects on <i>Escherichia coli</i> populations. <i>Talanta</i> , 2010, 80, 1980-1985.	5.5	18
72	Inorganic arsenic and iron(II) distributions in sediment porewaters investigated by a combined DGT-colourimetric DET technique. <i>Environmental Chemistry</i> , 2012, 9, 31.	1.5	18

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73	In situ evaluation of DGT techniques for measurement of trace metals in estuarine waters: a comparison of four binding layers with open and restricted diffusive layers. <i>Environmental Sciences: Processes and Impacts</i> , 2016, 18, 51-63.	3.5	18
74	Characterising the chemical interactions that occur on polyaniline with inverse thin layer chromatography. <i>Polymer International</i> , 1994, 35, 197-205.	3.1	17
75	Optimization of Enzyme Induced Carbonate Precipitation (EICP) as a Ground Improvement Technique. , 2020, , .		16
76	Use of inverse thin layer chromatography with amino acids to characterize molecular interactions on conducting polymers. <i>Polymer International</i> , 1992, 29, 299-305.	3.1	15
77	Determining time-weighted average concentrations of nitrate and ammonium in freshwaters using DGT with ion exchange membrane-based binding layers. <i>Environmental Sciences: Processes and Impacts</i> , 2016, 18, 1530-1539.	3.5	15
78	In situ speciation of dissolved inorganic antimony in surface waters and sediment porewaters: development of a thiol-based diffusive gradients in thin films technique for Sb(III). <i>Environmental Sciences: Processes and Impacts</i> , 2016, 18, 992-998.	3.5	15
79	DGT and selective extractions reveal differences in arsenic and antimony uptake by the white icicle radish (<i>Raphanus sativus</i>). <i>Environmental Pollution</i> , 2020, 259, 113815.	7.5	15
80	In Situ DGT Sensing of Bioavailable Metal Fluxes to Improve Toxicity Predictions for Sediments. <i>Environmental Science & Technology</i> , 2021, 55, 7355-7364.	10.0	15
81	A new colorimetric DET technique for determining mm-resolution sulfide porewater distributions and allowing improved interpretation of iron(II) co-distributions. <i>Chemosphere</i> , 2020, 244, 125388.	8.2	14
82	The Effect of Sediment Type and pH-Adjustment on the Porewater Chemistry of Copper- and Zinc-Spiked Sediments. <i>Soil and Sediment Contamination</i> , 2009, 18, 55-73.	1.9	13
83	INFLUENCE OF SEDIMENT METAL SPIKING PROCEDURES ON COPPER BIOAVAILABILITY AND TOXICITY IN THE ESTUARINE BIVALVE <i>INDOAUSTRIELLA LAMPRELLI</i> . <i>Environmental Toxicology and Chemistry</i> , 2009, 28, 1885.	4.3	12
84	Evaluation of a simple, inexpensive, in situ sampler for measuring time-weighted average concentrations of suspended sediment in rivers and streams. <i>Hydrological Processes</i> , 2019, 33, 678-686.	2.6	12
85	A colorimetric DET technique for the high-resolution measurement of two-dimensional alkalinity distributions in sediment porewaters. <i>Chemosphere</i> , 2015, 119, 547-552.	8.2	11
86	Ubiquity of activated sludge ferricyanide-mediated BOD methods: A comparison of sludge seeds across wastewater treatment plants. <i>Talanta</i> , 2014, 125, 293-300.	5.5	10
87	Seasonal nutrient cycling in integrated rice-shrimp ponds. <i>Marine Pollution Bulletin</i> , 2019, 149, 110647.	5.0	10
88	Oxidative Dissolution of Sulfide Minerals in Single and Mixed Sulfide Systems under Simulated Acid and Metalliferous Drainage Conditions. <i>Environmental Science & Technology</i> , 2021, 55, 2369-2380.	10.0	10
89	Short-Term Variability of Nutrients and Fecal Indicator Bacteria within the Gold Coast Seaway, Southern Moreton Bay (Australia). <i>Journal of Coastal Research</i> , 2012, 278, 80-88.	0.3	9
90	Comparison of DET, DGT and conventional porewater extractions for determining nutrient profiles and cycling in stream sediments. <i>Environmental Sciences: Processes and Impacts</i> , 2019, 21, 2128-2140.	3.5	9

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91	Interactive influences of the marine yabby (<i>Trypaea australiensis</i>) and mangrove (<i>Avicennia marina</i>) leaf litter on benthic metabolism and nitrogen cycling in sandy estuarine sediment. <i>Hydrobiologia</i> , 2012, 693, 117-129.	2.0	7
92	Development and evaluation of a new colorimetric DGT technique for the 2D visualisation of labile phosphate in soils. <i>Chemosphere</i> , 2021, 269, 128704.	8.2	7
93	In Situ Collection of Diagenetic and Induced Oxyhydroxide Precipitates from Riverine and Estuarine Sediments. <i>Environmental Technology (United Kingdom)</i> , 1998, 19, 1191-1201.	2.2	6
94	Quality Criteria in Australian Reclaimed Water Guidelines and Effluent Discharge Licences: How Consistent Are We?. <i>Australasian Journal of Environmental Management</i> , 2004, 11, 227-236.	1.1	6
95	Macroinfauna Dynamics and Sediment Parameters of a Subtropical Estuarine Lake—Coomabah Lake (Southern Moreton Bay, Australia). <i>Journal of Coastal Research</i> , 2013, 291, 156-167.	0.3	6
96	Evaluation of the DGT technique for selective measurement of aluminium and trace metal concentrations in an acid drainage-impacted coastal waterway. <i>Environmental Sciences: Processes and Impacts</i> , 2017, 19, 742-751.	3.5	5
97	Effects of the Bioturbating Marine Yabby <i>Trypaea australiensis</i> on Sediment Properties in Sandy Sediments Receiving Mangrove Leaf Litter. <i>Journal of Marine Science and Engineering</i> , 2019, 7, 426.	2.6	5
98	Evaluation of the Chelex-DGT technique for the measurement of rare earth elements in the porewater of estuarine and marine sediments. <i>Talanta</i> , 2021, 230, 122315.	5.5	5
99	Suspended sediment monitoring in alluvial gullies: A laboratory and field evaluation of available measurement techniques. <i>Hydrological Processes</i> , 2020, 34, 3426-3438.	2.6	5
100	Interfacial analysis techniques for the study and characterisation of advanced materials. <i>TrAC - Trends in Analytical Chemistry</i> , 1993, 12, 94-100.	11.4	4
101	Decline in recycled water quality during short-term storage in open ponds. <i>Journal of Water and Health</i> , 2009, 7, 597-608.	2.6	4
102	Short-Term Nitrogen and Phosphorus Release during the Disturbance of Surface Sediments: A Case Study in an Urbanised Estuarine System (Gold Coast Broadwater, Australia). <i>Journal of Marine Science and Engineering</i> , 2017, 5, 16.	2.6	4
103	In situ, high-resolution measurement of labile phosphate in sediment porewater using the DET technique coupled with optimized imaging densitometry. <i>Environmental Research</i> , 2020, 191, 110107.	7.5	4
104	Intensive landscape-scale remediation improves water quality of an alluvial gully located in a Great Barrier Reef catchment. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 867-883.	4.9	4
105	The influence of small-scale circum-neutral pH change on Cu-bioavailability and toxicity to an estuarine bivalve (<i>Austriella cf plicifera</i>) in whole-sediment toxicity tests. <i>Science of the Total Environment</i> , 2008, 405, 87-95.	8.0	3
106	Binding Layer Properties. , 2016, , 66-92.		2
107	Comments on "Determination of total arsenic using a novel Zn-ferrite binding gel for DGT techniques: Application to the redox speciation of arsenic in river sediments" by Gorny et al.. <i>Talanta</i> , 2016, 149, 156-157.	5.5	1
108	Protecting Water Quality in Urban Estuaries: Australian Case Studies. , 2019, , 69-86.		0