

Michael R Grace

List of Publications by Year in descending order

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88
papers

2,965
citations

186265

28
h-index

197818

49
g-index

89
all docs

89
docs citations

89
times ranked

4564
citing authors

#	ARTICLE	IF	CITATIONS
1	Time-Resolved Terbium-Based Probe for the Detection of Zinc(II) Ions: Investigation of the Formation of a Luminescent Ternary Complex. <i>Inorganic Chemistry</i> , 2020, 59, 118-127.	4.0	14
2	Monitoring of environmental flow outcomes in a large river basin: The Commonwealth Environmental Water Holder's long-term intervention in the Murray-Darling Basin, Australia. <i>River Research and Applications</i> , 2020, 36, 630-644.	1.7	28
3	Environmental concentrations of pharmaceuticals alter metabolism, denitrification, and diatom assemblages in artificial streams. <i>Freshwater Science</i> , 2020, 39, 256-267.	1.8	23
4	Long-term data reveal highly-variable metabolism and transitions in trophic status in a montane stream. <i>Freshwater Science</i> , 2020, 39, 241-255.	1.8	8
5	A highly efficient red-emitting luminescent paper-based chemosensor for hydrogen sulfide. <i>Chemical Communications</i> , 2020, 56, 5605-5608.	4.1	13
6	Influences of the antidepressant fluoxetine on stream ecosystem function and aquatic insect emergence at environmentally realistic concentrations. <i>Journal of Freshwater Ecology</i> , 2019, 34, 513-531.	1.2	18
7	Effect of temperature and drying-rewetting of sediments on the partitioning between denitrification and DNRA in constructed urban stormwater wetlands. <i>Ecological Engineering</i> , 2019, 140, 105586.	3.6	37
8	Factors controlling dissimilatory nitrate reduction processes in constructed stormwater urban wetlands. <i>Biogeochemistry</i> , 2019, 142, 375-393.	3.5	30
9	Role of organic carbon, nitrate and ferrous iron on the partitioning between denitrification and DNRA in constructed stormwater urban wetlands. <i>Science of the Total Environment</i> , 2019, 666, 608-617.	8.0	85
10	Interaction of Nucleotides with a Trinuclear Terbium(III)-Zinc(II) Complex: Efficient Sensitization of Terbium Luminescence by Guanosine Monophosphate and Application to Real-Time Monitoring of Phosphodiesterase Activity. <i>Inorganic Chemistry</i> , 2019, 58, 495-505.	4.0	13
11	Global patterns and drivers of ecosystem functioning in rivers and riparian zones. <i>Science Advances</i> , 2019, 5, eaav0486.	10.3	133
12	Modified Gold Nanoparticles for the Temperature-Dependent Colorimetric Detection of Mercury and Methylmercury. <i>ChemistrySelect</i> , 2018, 3, 2088-2091.	1.5	18
13	The influence of an invasive plant on denitrification in an urban wetland. <i>Freshwater Biology</i> , 2018, 63, 353-365.	2.4	13
14	Lanthanide complexes for luminescence-based sensing of low molecular weight analytes. <i>Coordination Chemistry Reviews</i> , 2018, 375, 191-220.	18.8	152
15	Application of ferrihydrite and calcite as composite sediment capping materials in a eutrophic lake. <i>Journal of Soils and Sediments</i> , 2018, 18, 1185-1193.	3.0	15
16	Different Conceptualizations of River Basins to Inform Management of Environmental Flows. <i>Frontiers in Environmental Science</i> , 2018, 6, .	3.3	11
17	A diverse suite of pharmaceuticals contaminates stream and riparian food webs. <i>Nature Communications</i> , 2018, 9, 4491.	12.8	189
18	Stable isotopes of nitrate reveal different nitrogen processing mechanisms in streams across a land use gradient during wet and dry periods. <i>Biogeosciences</i> , 2018, 15, 3953-3965.	3.3	37

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19	Determination of selected emerging contaminants in freshwater invertebrates using a universal extraction technique and liquid chromatography accurate mass spectrometry. <i>Journal of Separation Science</i> , 2018, 41, 3706-3715.	2.5	15
20	Consequences of altered temperature regimes for emerging freshwater invertebrates. <i>Aquatic Sciences</i> , 2017, 79, 265-276.	1.5	13
21	A luminogenic lanthanide-based probe for the highly selective detection of nanomolar sulfide levels in aqueous samples. <i>Chemical Communications</i> , 2017, 53, 4911-4914.	4.1	46
22	Thin ferrihydrite sediment capping sequesters phosphorus experiencing redox conditions in a shallow temperate lacustrine wetland. <i>Chemosphere</i> , 2017, 185, 673-680.	8.2	28
23	Liquid chromatography – quadrupole Orbitrap mass spectrometry method for selected pharmaceuticals in water samples. <i>Journal of Chromatography A</i> , 2017, 1515, 164-171.	3.7	20
24	Pharmaceuticals and personal care products (PPCPs) are ecological disrupting compounds (EcoDC). <i>Elementa</i> , 2017, 5, .	3.2	68
25	Cellular Uptake and Photo-Cytotoxicity of a Gadolinium(III)-DOTA-Naphthalimide Complex – Clicked to a Lipidated Tat Peptide. <i>Molecules</i> , 2016, 21, 194.	3.8	9
26	A novel method to assess effects of chemical stressors on natural biofilm structure and function. <i>Freshwater Biology</i> , 2016, 61, 2129-2140.	2.4	24
27	Antidepressants in stream ecosystems: influence of selective serotonin reuptake inhibitors (SSRIs) on algal production and insect emergence. <i>Freshwater Science</i> , 2016, 35, 845-855.	1.8	48
28	Luminescent Alkyne-Bearing Terbium(III) Complexes and Their Application to Bioorthogonal Protein Labeling. <i>Inorganic Chemistry</i> , 2016, 55, 1674-1682.	4.0	26
29	Deep dynamic pools of phosphorus in the sediment of a temperate lagoon with recurring blooms of diazotrophic cyanobacteria. <i>Limnology and Oceanography</i> , 2015, 60, 2185-2196.	3.1	11
30	Fast processing of diel oxygen curves: Estimating stream metabolism with BASE (BA) <i>Environmental Science & Technology</i> , 2015, 49, 103-114.	2.0	75
31	Pharmaceuticals and personal care products alter growth and function in lentic biofilms. <i>Environmental Chemistry</i> , 2015, 12, 301.	1.5	23
32	Unravelling the origin and fate of nitrate in an agricultural – urban coastal aquifer. <i>Biogeochemistry</i> , 2015, 122, 343-360.	3.5	17
33	Coumarin-based fluorescent sensors for zinc(II) and hypochlorite. <i>Supramolecular Chemistry</i> , 2015, 27, 798-806.	1.2	18
34	Temporary Storage or Permanent Removal? The Division of Nitrogen between Biotic Assimilation and Denitrification in Stormwater Biofiltration Systems. <i>PLoS ONE</i> , 2014, 9, e90890.	2.5	84
35	Tracing carbon sources in small urbanising streams: catchment – scale stormwater drainage overwhelms the effects of reach – scale riparian vegetation. <i>Freshwater Biology</i> , 2014, 59, 168-186.	2.4	25
36	A catchment study of sources and sinks of nutrients and sediments in south-east Australia. <i>Journal of Hydrology</i> , 2014, 515, 166-179.	5.4	17

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37	Effect of Native Vegetation Loss on Stream Ecosystem Processes: Dissolved Organic Matter Composition and Export in Agricultural Landscapes. <i>Ecosystems</i> , 2014, 17, 82-95.	3.4	18
38	Moving beyond methods: the need for a diverse programme in climate change research. <i>Ecology Letters</i> , 2014, 17, 125.	6.4	6
39	Increased rates of dissimilatory nitrate reduction to ammonium (DNRA) under oxic conditions in a periodically hypoxic estuary. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 133, 313-324.	3.9	103
40	The synthesis of luminescent lanthanide-based chemosensors for the detection of zinc ions. <i>Tetrahedron</i> , 2014, 70, 4367-4372.	1.9	22
41	Sources and fate of nitrate in a groundwater-fed estuary elucidated using stable isotope ratios of nitrogen and oxygen. <i>Limnology and Oceanography</i> , 2014, 59, 1493-1509.	3.1	34
42	Surface Sediments in the Marsh-Sandy Land Transitional Area: Sandification in the Western Songnen Plain, China. <i>PLoS ONE</i> , 2014, 9, e99715.	2.5	8
43	Response of Two Dominant Boreal Freshwater Wetland Plants to Manipulated Warming and Altered Precipitation. <i>PLoS ONE</i> , 2014, 9, e104454.	2.5	6
44	Means and extremes: building variability into community-level climate change experiments. <i>Ecology Letters</i> , 2013, 16, 799-806.	6.4	278
45	The influence of native replanting on stream ecosystem metabolism in a degraded landscape: can a little vegetation go a long way?. <i>Freshwater Biology</i> , 2013, 58, 2601-2613.	2.4	24
46	Dynamics of groundwater-derived nitrate and nitrous oxide in a tidal estuary from radon mass balance modeling. <i>Limnology and Oceanography</i> , 2013, 58, 1689-1706.	3.1	41
47	Sediment bacterial community structure and function in response to C and Zn amendments: urban and nonurban streams. <i>Journal of the North American Benthological Society</i> , 2011, 30, 951-962.	3.1	7
48	Flow analysis methods for the direct ultra-violet spectrophotometric measurement of nitrate and total nitrogen in freshwaters. <i>Analytica Chimica Acta</i> , 2011, 704, 116-122.	5.4	37
49	Urban catchment hydrology overwhelms reach scale effects of riparian vegetation on organic matter dynamics. <i>Freshwater Biology</i> , 2011, 56, 1370-1389.	2.4	19
50	The individual response of saline lakes to a severe drought. <i>Science of the Total Environment</i> , 2011, 409, 3919-3933.	8.0	26
51	Urban Stormwater Runoff Drives Denitrifying Community Composition Through Changes in Sediment Texture and Carbon Content. <i>Microbial Ecology</i> , 2011, 61, 932-940.	2.8	35
52	Hydraulic and treatment performance of pervious pavements under variable drying and wetting regimes. <i>Water Science and Technology</i> , 2011, 64, 1692-1699.	2.5	11
53	Biogeochemistry and cyanobacterial blooms: investigating the relationship in a shallow, polymictic, temperate lake. <i>Environmental Chemistry</i> , 2010, 7, 443.	1.5	17
54	Fluorescent Zn ²⁺ chemosensors, functional in aqueous solution under environmentally relevant conditions. <i>Tetrahedron Letters</i> , 2010, 51, 1161-1165.	1.4	28

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55	A compact portable flow analysis system for the rapid determination of total phosphorus in estuarine and marine waters. <i>Analytica Chimica Acta</i> , 2010, 674, 117-122.	5.4	34
56	Searching for effective indicators of ecosystem function in urban streams: assessing cellulose decomposition potential. <i>Freshwater Biology</i> , 2010, 55, 2089-2106.	2.4	42
57	A versatile total internal reflection photometric detection cell for flow analysis. <i>Talanta</i> , 2009, 79, 830-835.	5.5	25
58	Underway determination of alkalinity in estuarine waters by reagent-injection gas-diffusion flow analysis. <i>Talanta</i> , 2008, 77, 533-540.	5.5	11
59	More microbial activity, not abrasive flow or shredder abundance, accelerates breakdown of labile leaf litter in urban streams. <i>Journal of the North American Benthological Society</i> , 2008, 27, 549-561.	3.1	60
60	Sediment instability affects the rate and location of primary production and respiration in a sand-bed stream. <i>Journal of the North American Benthological Society</i> , 2008, 27, 581-592.	3.1	81
61	Bayesian clustering with AutoClass explicitly recognises uncertainties in landscape classification. <i>Ecography</i> , 2007, 30, 526-536.	4.5	24
62	Uncertainty in Nutrient Spiraling: Sensitivity of Spiraling Indices to Small Errors in Measured Nutrient Concentration. <i>Ecosystems</i> , 2007, 10, 477-487.	3.4	19
63	Bayesian clustering with AutoClass explicitly recognises uncertainties in landscape classification. <i>Ecography</i> , 2007, 30, 526-536.	4.5	2
64	Spectrophotometric Determination of Ammonia in Estuarine Waters by Hybrid Reagentâ€Injection Gasâ€Diffusion Flow Analysis. <i>Spectroscopy Letters</i> , 2006, 39, 737-753.	1.0	34
65	On-line Removal of Sulfide Interference in Phosphate Determination by Flow Injection Analysis. <i>Environmental Chemistry</i> , 2006, 3, 19.	1.5	11
66	Can Nutrient Spiralling be Used to Detect Seasonal Nutrient Uptake in a Forested Stream?. <i>Water, Air and Soil Pollution</i> , 2006, 6, 403-411.	0.8	4
67	Risk-Based Approaches to Managing Contaminants in Catchments. <i>Human and Ecological Risk Assessment (HERA)</i> , 2006, 12, 66-73.	3.4	16
68	Reply to the comment by Crook and Koster (2006) 'Temporal change in fish assemblages in the lower Goulburn River, south-eastern Australia'. <i>Marine and Freshwater Research</i> , 2006, 57, 309.	1.3	1
69	Towards individualised radiotherapy for Stage I seminoma. <i>Radiotherapy and Oncology</i> , 2005, 76, 251-256.	0.6	23
70	Small-scale temporal variation and the effect of urbanisation on extracellular enzyme activity in streams. <i>Journal of Environmental Monitoring</i> , 2005, 7, 861.	2.1	4
71	Extracellular enzyme response to bioavailability of dissolved organic C in streams of varying catchment urbanization. <i>Journal of the North American Benthological Society</i> , 2005, 24, 588-601.	3.1	45
72	Evaluation of on-line preconcentration and flow-injection amperometry for phosphate determination in fresh and marine waters. <i>Talanta</i> , 2005, 66, 461-466.	5.5	55

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73	Fish communities and habitat changes in the highly modified Goulburn Catchment, Victoria, Australia. <i>Marine and Freshwater Research</i> , 2004, 55, 769.	1.3	16
74	Ecological risk to aquatic systems from salinity increases. <i>Australian Journal of Botany</i> , 2003, 51, 689.	0.6	109
75	Effect of an Alternating Oxic/Anoxic Regime on a (Freshwater) Yarra River Sediment. <i>Australian Journal of Chemistry</i> , 2003, 56, 923.	0.9	9
76	A reverse-flow injection analysis method for the determination of dissolved oxygen in fresh and marine waters. <i>Talanta</i> , 2002, 58, 1285-1291.	5.5	13
77	Title is missing!. <i>Hydrobiologia</i> , 2002, 487, 183-192.	2.0	7
78	Effect of saline groundwater on the aggregation and settling of suspended particles in a turbid Australian river. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1997, 120, 123-141.	4.7	28
79	NMR and stopped-flow studies of metal ion binding to α -lactalbumins. <i>BBA - Proteins and Proteomics</i> , 1996, 1293, 72-82.	2.1	19
80	A Cross Relation in Volumes of Activation for Electron-Transfer Reactions. <i>Inorganic Chemistry</i> , 1994, 33, 1915-1920.	4.0	35
81	Kinetics of anation of Cr(III) hydrolytic oligomers: reaction of dimer with sulfate. <i>Inorganica Chimica Acta</i> , 1993, 213, 103-110.	2.4	17
82	Kinetics of the tris(1,10-phenanthroline)cobalt(III/II) self-exchange reaction in aqueous solution at variable pressure. <i>Inorganic Chemistry</i> , 1993, 32, 5597-5602.	4.0	38
83	Kinetics of reactions of aqueous iron(III) ions with azide and thiocyanate at high pressures. <i>Inorganic Chemistry</i> , 1992, 31, 4674-4678.	4.0	16
84	Kinetic studies of the aquopentaamminecobalt(III)- and aquopentaamminechromium(III)/hydrogen chromate complexation reaction. <i>Inorganic Chemistry</i> , 1992, 31, 4524-4529.	4.0	9
85	Equilibrium studies of the cobalt(III) and chromium(III) aquapentaammine/hydrogen chromate complexation reaction. <i>Polyhedron</i> , 1992, 11, 2069-2081.	2.2	6
86	Properties and structure of the cobalt(III) chromate cation, $\text{Co}(\text{NH}_3)_5\text{CrO}_4^+$, as its perchlorate salt. <i>Inorganica Chimica Acta</i> , 1991, 182, 135-138.	2.4	5
87	An alternative mechanism for the formation of the cobalt(III) molybdate cation, $\text{Co}(\text{NH}_3)_5\text{MoO}_4^+$. <i>Polyhedron</i> , 1991, 10, 2317-2329.	2.2	6
88	Early stages of the hydrolysis of chromium(III) in aqueous solution—VII. Kinetics of dimerization of deprotonated forms of doubly bridged dimer. <i>Polyhedron</i> , 1991, 10, 2389-2397.	2.2	17