Michael R Grace

List of Publications by Year
in descending order

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	Means and extremes: building variability into communityâ€level climate change experiments. Ecology Letters, 2013, 16, 799-806.	6.4	278
2	A diverse suite of pharmaceuticals contaminates stream and riparian food webs. Nature Communications, 2018, 9, 4491.	12.8	189
3	Lanthanide complexes for luminescence-based sensing of low molecular weight analytes. Coordination Chemistry Reviews, 2018, 375, 191-220.	18.8	152
4	Global patterns and drivers of ecosystem functioning in rivers and riparian zones. Science Advances, 2019, 5, eaav0486.	10.3	133
5	Ecological risk to aquatic systems from salinity increases. Australian Journal of Botany, 2003, 51, 689.	0.6	109
6	Increased rates of dissimilatory nitrate reduction to ammonium (DNRA) under oxic conditions in a periodically hypoxic estuary. Geochimica Et Cosmochimica Acta, 2014, 133, 313-324.	3.9	103
7	Role of organic carbon, nitrate and ferrous iron on the partitioning between denitrification and DNRA in constructed stormwater urban wetlands. Science of the Total Environment, 2019, 666, 608-617.	8.0	85
8	Temporary Storage or Permanent Removal? The Division of Nitrogen between Biotic Assimilation and Denitrification in Stormwater Biofiltration Systems. PLoS ONE, 2014, 9, e90890.	2.5	84
9	Sediment instability affects the rate and location of primary production and respiration in a sand-bed stream. Journal of the North American Benthological Society, 2008, 27, 581-592.	3.1	81
10	Fast processing of diel oxygen curves: Estimating stream metabolism with BASE (<scp>BA</scp>yesian) Tj ETQq0 0 0 rgBT /Overlock 10 103-114.	2.0	75
11	Pharmaceuticals and personal care products (PPCPs) are ecological disrupting compounds (EcoDC). Elementa, 2017, 5, .	3.2	68
12	More microbial activity, not abrasive flow or shredder abundance, accelerates breakdown of labile leaf litter in urban streams. Journal of the North American Benthological Society, 2008, 27, 549-561.	3.1	60
13	Evaluation of on-line preconcentration and flow-injection amperometry for phosphate determination in fresh and marine waters. Talanta, 2005, 66, 461-466.	5.5	55
14	Antidepressants in stream ecosystems: influence of selective serotonin reuptake inhibitors (SSRIs) on algal production and insect emergence. Freshwater Science, 2016, 35, 845-855.	1.8	48
15	A luminogenic lanthanide-based probe for the highly selective detection of nanomolar sulfide levels in aqueous samples. Chemical Communications, 2017, 53, 4911-4914.	4.1	46
16	Extracellular enzyme response to bioavailability of dissolved organic C in streams of varying catchment urbanization. Journal of the North American Benthological Society, 2005, 24, 588-601.	3.1	45
17	Searching for effective indicators of ecosystem function in urban streams: assessing cellulose decomposition potential. Freshwater Biology, 2010, 55, 2089-2106.	2.4	42
18	Dynamics of groundwaterâ€derived nitrate and nitrous oxide in a tidal estuary from radon mass balance modeling. Limnology and Oceanography, 2013, 58, 1689-1706.	3.1	41

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19	Kinetics of the tris(1,10-phenanthroline)cobalt(III/II) self-exchange reaction in aqueous solution at variable pressure. Inorganic Chemistry, 1993, 32, 5597-5602.	4.0	38
20	Flow analysis methods for the direct ultra-violet spectrophotometric measurement of nitrate and total nitrogen in freshwaters. Analytica Chimica Acta, 2011, 704, 116-122.	5.4	37
21	Stable isotopes of nitrate reveal different nitrogen processing mechanisms in streams across a land use gradient during wet and dry periods. Biogeosciences, 2018, 15, 3953-3965.	3.3	37
22	Effect of temperature and drying-rewetting of sediments on the partitioning between denitrification and DNRA in constructed urban stormwater wetlands. Ecological Engineering, 2019, 140, 105586.	3.6	37
23	A Cross Relation in Volumes of Activation for Electron-Transfer Reactions. Inorganic Chemistry, 1994, 33, 1915-1920.	4.0	35
24	Urban Stormwater Runoff Drives Denitrifying Community Composition Through Changes in Sediment Texture and Carbon Content. Microbial Ecology, 2011, 61, 932-940.	2.8	35
25	Spectrophotometric Determination of Ammonia in Estuarine Waters by Hybrid Reagentâ€Injection Gasâ€Diffusion Flow Analysis. Spectroscopy Letters, 2006, 39, 737-753.	1.0	34
26	A compact portable flow analysis system for the rapid determination of total phosphorus in estuarine and marine waters. Analytica Chimica Acta, 2010, 674, 117-122.	5.4	34
27	Sources and fate of nitrate in a groundwaterâ€fed estuary elucidated using stable isotope ratios of nitrogen and oxygen. Limnology and Oceanography, 2014, 59, 1493-1509.	3.1	34
28	Factors controlling dissimilatory nitrate reduction processes in constructed stormwater urban wetlands. Biogeochemistry, 2019, 142, 375-393.	3.5	30
29	Effect of saline groundwater on the aggregation and settling of suspended particles in a turbid Australian river. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1997, 120, 123-141.	4.7	28
30	Fluorescent Zn2+ chemosensors, functional in aqueous solution under environmentally relevant conditions. Tetrahedron Letters, 2010, 51, 1161-1165.	1.4	28
31	Thin ferrihydrite sediment capping sequestrates phosphorus experiencing redox conditions in a shallow temperate lacustrine wetland. Chemosphere, 2017, 185, 673-680.	8.2	28
32	Monitoring of environmental flow outcomes in a large river basin: The Commonwealth Environmental Water Holder's longâ€term intervention in the Murrayâ€“Darling Basin, Australia. River Research and Applications, 2020, 36, 630-644.	1.7	28
33	The individual response of saline lakes to a severe drought. Science of the Total Environment, 2011, 409, 3919-3933.	8.0	26
34	Luminescent Alkyne-Bearing Terbium(III) Complexes and Their Application to Bioorthogonal Protein Labeling. Inorganic Chemistry, 2016, 55, 1674-1682.	4.0	26
35	A versatile total internal reflection photometric detection cell for flow analysis. Talanta, 2009, 79, 830-835.	5.5	25
36	Tracing carbon sources in small urbanising streams: catchmentâ€scale stormwater drainage overwhelms the effects of reachâ€scale riparian vegetation. Freshwater Biology, 2014, 59, 168-186.	2.4	25

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37	Bayesian clustering with AutoClass explicitly recognises uncertainties in landscape classification. Ecography, 2007, 30, 526-536.	4.5	24
38	The influence of native replanting on stream ecosystem metabolism in a degraded landscape: can a little vegetation go a long way?. Freshwater Biology, 2013, 58, 2601-2613.	2.4	24
39	A novel method to assess effects of chemical stressors on natural biofilm structure and function. Freshwater Biology, 2016, 61, 2129-2140.	2.4	24
40	Towards individualised radiotherapy for Stage I seminoma. Radiotherapy and Oncology, 2005, 76, 251-256.	0.6	23
41	Pharmaceuticals and personal care products alter growth and function in lentic biofilms. Environmental Chemistry, 2015, 12, 301.	1.5	23
42	Environmental concentrations of pharmaceuticals alter metabolism, denitrification, and diatom assemblages in artificial streams. Freshwater Science, 2020, 39, 256-267.	1.8	23
43	The synthesis of luminescent lanthanide-based chemosensors forÂthe detection of zinc ions. Tetrahedron, 2014, 70, 4367-4372.	1.9	22
44	Liquid chromatography â€“ quadrupole Orbitrap mass spectrometry method for selected pharmaceuticals in water samples. Journal of Chromatography A, 2017, 1515, 164-171.	3.7	20
45	NMR and stopped-flow studies of metal ion binding to Î±-lactalbumins. BBA - Proteins and Proteomics, 1996, 1293, 72-82.	2.1	19
46	Uncertainty in Nutrient Spiraling: Sensitivity of Spiraling Indices to Small Errors in Measured Nutrient Concentration. Ecosystems, 2007, 10, 477-487.	3.4	19
47	Urban catchment hydrology overwhelms reach scale effects of riparian vegetation on organic matter dynamics. Freshwater Biology, 2011, 56, 1370-1389.	2.4	19
48	Effect of Native Vegetation Loss on Stream Ecosystem Processes: Dissolved Organic Matter Composition and Export in Agricultural Landscapes. Ecosystems, 2014, 17, 82-95.	3.4	18
49	Coumarin-based fluorescent sensors for zinc(II) and hypochlorite. Supramolecular Chemistry, 2015, 27, 798-806.	1.2	18
50	Modified Gold Nanoparticles for the Temperatureâ€Dependent Colorimetric Detection of Mercury and Methylmercury. ChemistrySelect, 2018, 3, 2088-2091.	1.5	18
51	Influences of the antidepressant fluoxetine on stream ecosystem function and aquatic insect emergence at environmentally realistic concentrations. Journal of Freshwater Ecology, 2019, 34, 513-531.	1.2	18
52	Early stages of the hydrolysis of chromium(III) in aqueous solutionâ€”VII. Kinetics of dimerization of deprotonated forms of doubly bridged dimer. Polyhedron, 1991, 10, 2389-2397.	2.2	17
53	Kinetics of anation of Cr(III) hydrolytic oligomers: reaction of dimer with sulfate. Inorganica Chimica Acta, 1993, 213, 103-110.	2.4	17
54	Biogeochemistry and cyanobacterial blooms: investigating the relationship in a shallow, polymictic, temperate lake. Environmental Chemistry, 2010, 7, 443.	1.5	17

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55	A catchment study of sources and sinks of nutrients and sediments in south-east Australia. Journal of Hydrology, 2014, 515, 166-179.	5.4	17
56	Unravelling the origin and fate of nitrate in an agriculturalâ€“urban coastal aquifer. Biogeochemistry, 2015, 122, 343-360.	3.5	17
57	Kinetics of reactions of aqueous iron(III) ions with azide and thiocyanate at high pressures. Inorganic Chemistry, 1992, 31, 4674-4678.	4.0	16
58	Fish communities and habitat changes in the highly modified Goulburn Catchment, Victoria, Australia. Marine and Freshwater Research, 2004, 55, 769.	1.3	16
59	Risk-Based Approaches to Managing Contaminants in Catchments. Human and Ecological Risk Assessment (HERA), 2006, 12, 66-73.	3.4	16
60	Application of ferrihydrite and calcite as composite sediment capping materials in a eutrophic lake. Journal of Soils and Sediments, 2018, 18, 1185-1193.	3.0	15
61	Determination of selected emerging contaminants in freshwater invertebrates using a universal extraction technique and liquid chromatography accurate mass spectrometry. Journal of Separation Science, 2018, 41, 3706-3715.	2.5	15
62	Time-Resolved Terbium-Based Probe for the Detection of Zinc(II) Ions: Investigation of the Formation of a Luminescent Ternary Complex. Inorganic Chemistry, 2020, 59, 118-127.	4.0	14
63	A reverse-flow injection analysis method for the determination of dissolved oxygen in fresh and marine waters. Talanta, 2002, 58, 1285-1291.	5.5	13
64	Consequences of altered temperature regimes for emerging freshwater invertebrates. Aquatic Sciences, 2017, 79, 265-276.	1.5	13
65	The influence of an invasive plant on denitrification in an urban wetland. Freshwater Biology, 2018, 63, 353-365.	2.4	13
66	Interaction of Nucleotides with a Trinuclear Terbium(III)â€“Dizinc(II) Complex: Efficient Sensitization of Terbium Luminescence by Guanosine Monophosphate and Application to Real-Time Monitoring of Phosphodiesterase Activity. Inorganic Chemistry, 2019, 58, 495-505.	4.0	13
67	A highly efficient red-emitting luminescent paper-based chemosensor for hydrogen sulfide. Chemical Communications, 2020, 56, 5605-5608.	4.1	13
68	On-line Removal of Sulfide Interference in Phosphate Determination by Flow Injection Analysis. Environmental Chemistry, 2006, 3, 19.	1.5	11
69	Underway determination of alkalinity in estuarine waters by reagent-injection gas-diffusion flow analysis. Talanta, 2008, 77, 533-540.	5.5	11
70	Hydraulic and treatment performance of pervious pavements under variable drying and wetting regimes. Water Science and Technology, 2011, 64, 1692-1699.	2.5	11
71	Deep dynamic pools of phosphorus in the sediment of a temperate lagoon with recurring blooms of diazotrophic cyanobacteria. Limnology and Oceanography, 2015, 60, 2185-2196.	3.1	11
72	Different Conceptualizations of River Basins to Inform Management of Environmental Flows. Frontiers in Environmental Science, 2018, 6, .	3.3	11

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73	Kinetic studies of the aquopentaamminecobalt(III)/- and aquopentaamminechromium(III)/hydrogen chromate complexation reaction. Inorganic Chemistry, 1992, 31, 4524-4529.	4.0	9
74	Effect of an Alternating Oxic/Anoxic Regime on a (Freshwater) Yarra River Sediment. Australian Journal of Chemistry, 2003, 56, 923.	0.9	9
75	Cellular Uptake and Photo-Cytotoxicity of a Gadolinium(III)-DOTA-Naphthalimide Complex â€œClickedâ€• to a Lipidated Tat Peptide. Molecules, 2016, 21, 194.	3.8	9
76	Long-term data reveal highly-variable metabolism and transitions in trophic status in a montane stream. Freshwater Science, 2020, 39, 241-255.	1.8	8
77	Surface Sediments in the Marsh-Sandy Land Transitional Area: Sandification in the Western Songnen Plain, China. PLoS ONE, 2014, 9, e99715.	2.5	8
78	Title is missing!. Hydrobiologia, 2002, 487, 183-192.	2.0	7
79	Sediment bacterial community structure and function in response to C and Zn amendments: urban and nonurban streams. Journal of the North American Benthological Society, 2011, 30, 951-962.	3.1	7
80	An alternative mechanism for the formation of the cobalt(III) molybdate cation, Co(NH3)5MoO4+. Polyhedron, 1991, 10, 2317-2329.	2.2	6
81	Equilibrium studies of the cobalt(III) and chromium(III) aquapentaammine/hydrogen chromate complexation reaction. Polyhedron, 1992, 11, 2069-2081.	2.2	6
82	Moving beyond methods: the need for a diverse programme in climate change research. Ecology Letters, 2014, 17, 125.	6.4	6
83	Response of Two Dominant Boreal Freshwater Wetland Plants to Manipulated Warming and Altered Precipitation. PLoS ONE, 2014, 9, e104454.	2.5	6
84	Properties and structure of the cobalt(III) chromate cation, Co(NH3)5CrO4+, as its perchlorate salt. Inorganica Chimica Acta, 1991, 182, 135-138.	2.4	5
85	Small-scale temporal variation and the effect of urbanisation on extracellular enzyme activity in streams. Journal of Environmental Monitoring, 2005, 7, 861.	2.1	4
86	Can Nutrient Spiralling be Used to Detect Seasonal Nutrient Uptake in a Forested Stream?. Water, Air and Soil Pollution, 2006, 6, 403-411.	0.8	4
87	Bayesian clustering with AutoClass explicitly recognises uncertainties in landscape classification. Ecography, 2007, 30, 526-536.	4.5	2
88	Reply to the comment by Crook and Koster (2006) 'Temporal change in fish assemblages in the lower Goulburn River, south-eastern Australia'. Marine and Freshwater Research, 2006, 57, 309.	1.3	1