

# Martyn G Kelly

## List of Publications by Year in descending order

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Version: 2024-02-01

67  
papers

4,545  
citations

101543

36  
h-index

114465

63  
g-index

67  
all docs

67  
docs citations

67  
times ranked

3713  
citing authors

#	ARTICLE	IF	CITATIONS
1	Establishing ecologically-relevant nutrient thresholds: A tool-kit with guidance on its use. <i>Science of the Total Environment</i> , 2022, 807, 150977.	8.0	9
2	Estimating nutrient thresholds for eutrophication management: Novel insights from understudied lake types. <i>Science of the Total Environment</i> , 2022, 827, 154242.	8.0	27
3	Freshwater Biota as Indicators of Impact: Case Studies and Examples of the Major Groups in Surface Water Assessment. , 2022, , 20-34.		1
4	Co-occurrence, ecological profiles and geographical distribution based on unique molecular identifiers of the common freshwater diatoms <i>Fragilaria</i> and <i>Ulnaria</i> . <i>Ecological Indicators</i> , 2022, 141, 109114.	6.3	7
5	Benthic algae assessments in the EU and the US: Striving for consistency in the face of great ecological diversity. <i>Ecological Indicators</i> , 2021, 121, 107082.	6.3	37
6	Estimating river nutrient concentrations consistent with good ecological condition: More stringent nutrient thresholds needed. <i>Ecological Indicators</i> , 2021, 121, 107017.	6.3	36
7	Analysis of some species resembling <i>Fragilaria capucina</i> (Fragilariaceae, Bacillariophyta). <i>Fottea</i> , 2021, 21, 128-151.	0.9	4
8	Key Questions for Next-Generation Biomonitoring. <i>Frontiers in Environmental Science</i> , 2020, 7, .	3.3	68
9	Diatom DNA metabarcoding for ecological assessment: Comparison among bioinformatics pipelines used in six European countries reveals the need for standardization. <i>Science of the Total Environment</i> , 2020, 745, 140948.	8.0	53
10	Overwhelming role of hydrology-related variables and river types in driving diatom species distribution and community assemblage in streams in Cyprus. <i>Ecological Indicators</i> , 2020, 117, 106690.	6.3	21
11	European aquatic ecological assessment methods: A critical review of their sensitivity to key pressures. <i>Science of the Total Environment</i> , 2020, 740, 140075.	8.0	71
12	Executing multi-taxa eDNA ecological assessment via traditional metrics and interactive networks. <i>Science of the Total Environment</i> , 2020, 729, 138801.	8.0	51
13	Nutrient criteria for surface waters under the European Water Framework Directive: Current state-of-the-art, challenges and future outlook. <i>Science of the Total Environment</i> , 2019, 695, 133888.	8.0	127
14	Diat.barcode, an open-access curated barcode library for diatoms. <i>Scientific Reports</i> , 2019, 9, 15116.	3.3	103
15	Establishing nutrient thresholds in the face of uncertainty and multiple stressors: A comparison of approaches using simulated datasets. <i>Science of the Total Environment</i> , 2019, 684, 425-433.	8.0	17
16	Connecting the morphological and molecular species concepts to facilitate species identification within the genus <i>Fragilaria</i> (Bacillariophyta). <i>Journal of Phycology</i> , 2019, 55, 948-970.	2.3	28
17	Defining ecological status of phytobenthos in very large rivers: a case study in practical implementation of the Water Framework Directive in Romania. <i>Hydrobiologia</i> , 2019, 828, 353-367.	2.0	6
18	Protecting and restoring Europe's waters: An analysis of the future development needs of the Water Framework Directive. <i>Science of the Total Environment</i> , 2019, 658, 1228-1238.	8.0	295

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19	Deriving nutrient criteria to support '½good¼ ecological status in European lakes: An empirically based approach to linking ecology and management. <i>Science of the Total Environment</i> , 2019, 650, 2074-2084.	8.0	53
20	Taxonomic and ecological characterization of two <i>Ulnaria</i> species (Bacillariophyta) from streams in Cyprus. <i>Phytotaxa</i> , 2018, 346, 78.	0.3	11
21	Implementation options for DNA-based identification into ecological status assessment under the European Water Framework Directive. <i>Water Research</i> , 2018, 138, 192-205.	11.3	275
22	Why We Need Sustainable Networks Bridging Countries, Disciplines, Cultures and Generations for Aquatic Biomonitoring 2.0: A Perspective Derived From the DNAqua-Net COST Action. <i>Advances in Ecological Research</i> , 2018, 58, 63-99.	2.7	120
23	Small Water Bodies in Great Britain and Ireland: Ecosystem function, human-generated degradation, and options for restorative action. <i>Science of the Total Environment</i> , 2018, 645, 1598-1616.	8.0	87
24	Macrophyte assessment in European lakes: Diverse approaches but convergent views of 'good' ecological status. <i>Ecological Indicators</i> , 2018, 94, 185-197.	6.3	55
25	The potential of High-Throughput Sequencing (HTS) of natural samples as a source of primary taxonomic information for reference libraries of diatom barcodes. <i>Fottea</i> , 2018, 18, 37-54.	0.9	40
26	A Water Framework Directive-compatible metric for assessing acidification in UK and Irish rivers using diatoms. <i>Science of the Total Environment</i> , 2016, 568, 671-678.	8.0	19
27	The 'Forgotten' Ecology Behind Ecological Status Evaluation: Re-Assessing the Roles of Aquatic Plants and Benthic Algae in Ecosystem Functioning. <i>Progress in Botany Fortschritte Der Botanik</i> , 2016, , 285-304.	0.3	6
28	Benthic algal assessment of ecological status in European lakes and rivers: Challenges and opportunities. <i>Science of the Total Environment</i> , 2016, 568, 603-613.	8.0	78
29	RAPPER: A new method for rapid assessment of macroalgae as a complement to diatom-based assessments of ecological status. <i>Science of the Total Environment</i> , 2016, 568, 536-545.	8.0	13
30	Redundancy in the ecological assessment of lakes: Are phytoplankton, macrophytes and phytobenthos all necessary?. <i>Science of the Total Environment</i> , 2016, 568, 594-602.	8.0	40
31	Customs, habits, and traditions: the role of nonscientific factors in the development of ecological assessment methods. <i>Wiley Interdisciplinary Reviews: Water</i> , 2015, 2, 159-165.	6.5	17
32	A hitchhiker's guide to European lake ecological assessment and intercalibration. <i>Ecological Indicators</i> , 2015, 52, 533-544.	6.3	96
33	Characterizing the niches of two very similar <i>Nitzschia</i> species and implications for ecological assessment. <i>Diatom Research</i> , 2015, 30, 27-33.	1.2	21
34	Role of periphyton in ecological assessment of lakes. <i>Freshwater Science</i> , 2014, 33, 619-638.	1.8	63
35	Spatial and seasonal variation of peatland-fed riverine macroinvertebrate and benthic diatom assemblages and implications for assessment: a case study from Ireland. <i>Hydrobiologia</i> , 2014, 728, 67-87.	2.0	8
36	Comparing aspirations: intercalibration of ecological status concepts across European lakes for littoral diatoms. <i>Hydrobiologia</i> , 2014, 734, 125-141.	2.0	61

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37	Assessment of ecological status in UK lakes using benthic diatoms. <i>Freshwater Science</i> , 2014, 33, 639-654.	1.8	68
38	Simplicity is the ultimate sophistication: Building capacity to meet the challenges of the Water Framework Directive. <i>Ecological Indicators</i> , 2014, 36, 519-523.	6.3	8
39	Intercalibrating classifications of ecological status: Europe's quest for common management objectives for aquatic ecosystems. <i>Science of the Total Environment</i> , 2013, 454-455, 490-499.	8.0	103
40	Morphology and identity of some ecologically important small <i>Nitzschia</i> species. <i>Diatom Research</i> , 2013, 28, 37-59.	1.2	94
41	Interactions between pH and nutrients on benthic algae in streams and consequences for ecological status assessment and species richness patterns. <i>Science of the Total Environment</i> , 2013, 444, 73-84.	8.0	68
42	Potential for cross-contamination of benthic diatom samples when using toothbrushes. <i>Diatom Research</i> , 2013, 28, 359-363.	1.2	10
43	Data rich, information poor? Phytobenthos assessment and the Water Framework Directive. <i>European Journal of Phycology</i> , 2013, 48, 437-450.	2.0	72
44	Building capacity for ecological assessment using diatoms in UK rivers. <i>Journal of Ecology and Environment</i> , 2013, 36, 89-94.	1.6	12
45	The Semiotics of Slime: Visual Representation of Phytobenthos as an aid to Understanding Ecological Status. <i>Freshwater Reviews: A Journal of the Freshwater Biological Association</i> , 2012, 5, 105-119.	1.0	19
46	Establishing expectations for pan-European diatom based ecological status assessments. <i>Ecological Indicators</i> , 2012, 20, 177-186.	6.3	55
47	Identification versus counting protocols as sources of uncertainty in diatom-based ecological status assessments. <i>Hydrobiologia</i> , 2012, 695, 109-124.	2.0	69
48	Effect of streamlining taxa lists on diatom-based indices: implications for intercalibrating ecological status. <i>Hydrobiologia</i> , 2012, 695, 253-263.	2.0	13
49	The European reference condition concept: A scientific and technical approach to identify minimally-impacted river ecosystems. <i>Science of the Total Environment</i> , 2012, 420, 33-42.	8.0	143
50	The Emperor's new clothes? A comment on. <i>Ecological Indicators</i> , 2011, 11, 1492-1494.	6.3	9
51	A comparison of national approaches to setting ecological status boundaries in phytobenthos assessment for the European Water Framework Directive: results of an intercalibration exercise. <i>Hydrobiologia</i> , 2009, 621, 169-182.	2.0	110
52	Uncertainty in ecological status assessments of lakes and rivers using diatoms. <i>Hydrobiologia</i> , 2009, 633, 5-15.	2.0	75
53	THE CONCEPTUAL BASIS OF ECOLOGICAL-STATUS ASSESSMENTS USING DIATOMS. <i>Biology and Environment</i> , 2009, 109, 175-189.	0.3	49
54	Validation of ecological status concepts in UK rivers using historic diatom samples. <i>Aquatic Botany</i> , 2009, 90, 289-295.	1.6	19

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55	Effect of environmental improvements on the diatoms of the River Axe, southern England.. <i>Fottea</i> , 2009, 9, 343-349.	0.9	10
56	Validation of diatoms as proxies for phytobenthos when assessing ecological status in lakes. <i>Hydrobiologia</i> , 2008, 610, 125-129.	2.0	57
57	Ecological variation within <i>Sellaphora</i> species complexes (Bacillariophyceae): specialists or generalists?. <i>Hydrobiologia</i> , 2008, 614, 373-386.	2.0	58
58	Evaluation of the Trophic Diatom Index for assessing water quality in River Gharasou, western Iran. <i>Hydrobiologia</i> , 2007, 589, 165-173.	2.0	58
59	Recommendations for sampling littoral diatoms in lakes for ecological status assessments. <i>Journal of Applied Phycology</i> , 2006, 18, 15-25.	2.8	105
60	HUMAN ERROR AND QUALITY ASSURANCE IN DIATOM ANALYSIS. Series in Machine Perception and Artificial Intelligence, 2002, , 75-91.	0.1	12
61	Recommendations for the routine sampling of diatoms for water quality assessments in Europe. <i>Journal of Applied Phycology</i> , 1998, 10, 215-224.	2.8	374
62	The Trophic Diatom Index: a new index for monitoring eutrophication in rivers. <i>Journal of Applied Phycology</i> , 1995, 7, 433-444.	2.8	599
63	Comparative performance of benthic diatom indices used to assess river water quality. <i>Hydrobiologia</i> , 1995, 302, 179-188.	2.0	107
64	Use of algae and other plants for monitoring rivers. <i>Austral Ecology</i> , 1995, 20, 45-56.	1.5	134
65	The Fellowship of the Ring Test: DNAqua-Net WG2 initiative to compare diatom metabarcoding protocols used in routine freshwater biomonitoring for standardisation. ARPHA Conference Abstracts, 0, 4, .	0.0	5
66	Potential for cross-contamination of diatom DNA samples when using toothbrushes. <i>Metabarcoding and Metagenomics</i> , 0, 5, .	0.0	1
67	Adapting the (fast-moving) world of molecular ecology to the (slow-moving) world of environmental regulation: lessons from the UK diatom metabarcoding exercise. <i>Metabarcoding and Metagenomics</i> , 0, 3, .	0.0	5