# John P Smol

## List of Publications by Citations



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|---|---|---|---|
| 627 papers | 24,057 citations | 71 h-index | 125 g-index |
| 657 ext. papers | 26,639 ext. citations | 4.5 avg, IF | 7.13 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 627 | Emerging threats and persistent conservation challenges for freshwater biodiversity. *Biological Reviews*, **2019**, 94, 849-873 | 13.5 | 807 |
| 626 | Climate-driven regime shifts in the biological communities of arctic lakes. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 4397-402 | 11.5 | 699 |
| 625 | Holocene thermal maximum in the western Arctic (0–180°W). *Quaternary Science Reviews*, **2004**, 23, 529-560 | 3.9 | 634 |
| 624 | Lakes and reservoirs as sentinels, integrators, and regulators of climate change. *Limnology and Oceanography*, **2009**, 54, 2273-2282 | 4.8 | 436 |
| 623 | Hemispheric-scale patterns of climate-related shifts in planktonic diatoms from North American and European lakes. *Global Change Biology*, **2008**, 14, 2740-2754 | 11.4 | 319 |
| 622 | An Assessment of Chironomidae as Quantitative Indicators of Past Climatic Change. *Canadian Journal of Fisheries and Aquatic Sciences*, **1991**, 48, 975-987 | 2.4 | 276 |
| 621 | Rapid response of treeline vegetation and lakes to past climate warming. *Nature*, **1993**, 361, 243-246 | 50.4 | 274 |
| 620 | EFFECTS OF CLIMATE CHANGE ON THE FRESHWATERS OF ARCTIC AND SUBARCTIC NORTH AMERICA. *Hydrological Processes*, **1997**, 11, 873-902 | 3.3 | 269 |
| 619 | Crossing the final ecological threshold in high Arctic ponds. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 12395-7 | 11.5 | 268 |
| 618 | Impacts of climatic change and fishing on Pacific salmon abundance over the past 300 years. *Science* , **2000**, 290, 795-9 | 33.3 | 263 |
| 617 | The widespread threat of calcium decline in fresh waters. *Science*, **2008**, 322, 1374-7 | 33.3 | 256 |
| 616 | Lake diatom responses to warming: reviewing the evidence. *Journal of Paleolimnology*, **2015**, 54, 1-35 | 2.1 | 243 |
| 615 | Marked post-18th century environmental change in high-arctic ecosystems. *Science*, **1994**, 266, 416-9 | 33.3 | 241 |
| 614 | Diatoms: powerful indicators of environmental change. *Environmental Science & Technology*, **1992**, 26, 22-33 | 10.3 | 231 |
| 613 | A weighted‐averaging regression and calibration model for inferring total phosphorus concentration from diatoms in British Columbia (Canada) lakes. *Freshwater Biology*, **1992**, 27, 417-434 | 3.1 | 228 |
| 612 | Setting minimum head capsule abundance and taxa deletion criteria in chironomid-based inference models. *Journal of Paleolimnology*, **2001**, 26, 327-342 | 2.1 | 221 |
| 611 | Legacy of a half century of Athabasca oil sands development recorded by lake ecosystems. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 1761-6 | 11.5 | 215 |

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| 610 | TRACKING LONG-TERM CHANGES IN CLIMATE USING ALGAL INDICATORS IN LAKE SEDIMENTS. *Journal of Phycology*, **2000**, 36, 986-1011 | 3 | 215 |
| 609 | Effects of agriculture, urbanization, and climate on water quality in the northern Great Plains. *Limnology and Oceanography*, **1999**, 44, 739-756 | 4.8 | 213 |
| 608 | Fisheries productivity in the northeastern Pacific Ocean over the past 2,200 years. *Nature*, **2002**, 416, 729-33 | 50.4 | 205 |
| 607 | Temperature and precipitation history of the Arctic. *Quaternary Science Reviews*, **2010**, 29, 1679-1715 | 3.9 | 203 |
| 606 | From controversy to consensus: making the case for recent climate change in the Arctic using lake sediments. *Frontiers in Ecology and the Environment*, **2007**, 5, 466-474 | 5.5 | 200 |
| 605 | Paleolimnology: an important tool for effective ecosystem management. *Journal of Aquatic Ecosystem Health*, **1992**, 1, 49-58 | | 189 |
| 604 | Biologically mediated transport of contaminants to aquatic systems. *Environmental Science & Technology*, **2007**, 41, 1075-84 | 10.3 | 185 |
| 603 | Arctic seabirds transport marine-derived contaminants. *Science*, **2005**, 309, 445 | 33.3 | 183 |
| 602 | Past ultraviolet radiation environments in lakes derived from fossil pigments. *Nature*, **1997**, 388, 457-459 | 50.4 | 170 |
| 601 | Assessment of freshwater diatoms as quantitative indicators of past climatic change in the Yukon and Northwest Territories, Canada. *Journal of Paleolimnology*, **1995**, 13, 21-49 | 2.1 | 167 |
| 600 | Paleophycology of a high arctic lake near Cape Herschel, Ellesmere Island. *Canadian Journal of Botany*, **1983**, 61, 2195-2204 | | 166 |
| 599 | Spatial trends and historical deposition of mercury in eastern and northern Canada inferred from lake sediment cores. *Environmental Science & Technology*, **2009**, 43, 4802-9 | 10.3 | 165 |
| 598 | Paleolimnological Evidence from Diatoms for Recent Environmental Changes in 50 Lakes across Canadian Arctic Treeline. *Arctic, Antarctic, and Alpine Research*, **2003**, 35, 110-123 | 1.8 | 162 |
| 597 | Assessing water quality changes in the lakes of the northeastern United States using sediment diatoms. *Canadian Journal of Fisheries and Aquatic Sciences*, **1999**, 56, 131-152 | 2.4 | 156 |
| 596 | How Much Acidification Has Occurred in Adirondack Region Lakes (New York, USA) since Preindustrial Times?. *Canadian Journal of Fisheries and Aquatic Sciences*, **1992**, 49, 128-141 | 2.4 | 154 |
| 595 | Cumulative effects of climate warming and other human activities on freshwaters of Arctic and subarctic North America. *Ambio*, **2006**, 35, 160-8 | 6.5 | 148 |
| 594 | The ratio of diatom frustules to chrysophycean statospores: A useful paleolimnological index. *Hydrobiologia*, **1985**, 123, 199-208 | 2.4 | 138 |
| 593 | Global change revealed by palaeolimnological records from remote lakes: a review. *Journal of Paleolimnology*, **2013**, 49, 513-535 | 2.1 | 137 |

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| 592 | U.S. Pacific coastal wetland resilience and vulnerability to sea-level rise. *Science Advances*, **2018**, 4, eaao3270 | 24.9 | 132 |
| 591 | Do spectrally inferred determinations of chlorophyll a reflect trends in lake trophic status?. *Journal of Paleolimnology*, **2010**, 43, 205-217 | 2.1 | 130 |
| 590 | Physical and chemical limnology of 59 lakes located between the southern Yukon and the Tuktoyaktuk Peninsula, Northwest Territories (Canada). *Canadian Journal of Fisheries and Aquatic Sciences*, **1997**, 54, 330-346 | 2.4 | 121 |
| 589 | The power of the past: using sediments to track the effects of multiple stressors on lake ecosystems. *Freshwater Biology*, **2010**, 55, 43-59 | 3.1 | 118 |
| 588 | Allerod--younger dryas lake temperatures from midge fossils in atlantic Canada. *Science*, **1991**, 253, 1010-2 | 33.3 | 118 |
| 587 | Assessing environmental conditions in rivers and streams with diatoms11-40 | | 113 |
| 586 | Aquatic ecology: delivery of pollutants by spawning salmon. *Nature*, **2003**, 425, 255-6 | 50.4 | 110 |
| 585 | Chironomid-based inference models for estimating end-of-summer hypolimnetic oxygen from south-central Ontario shield lakes. *Freshwater Biology*, **2001**, 46, 1529-1551 | 3.1 | 109 |
| 584 | Quantitative inferences of past hypolimnetic anoxia in south-central Ontario lakes using fossil midges (Diptera: Chironomidae). *Canadian Journal of Fisheries and Aquatic Sciences*, **1998**, 55, 587-596 | 2.4 | 105 |
| 583 | An expanded weighted-averaging model for inferring past total phosphorus concentrations from diatom assemblages in eutrophic British Columbia (Canada) lakes. *Journal of Paleolimnology*, **1995**, 14, 49-67 | 2.1 | 103 |
| 582 | Diatom shifts as evidence for recent Subarctic warming in a remote tundra lake, NWT, Canada. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2005**, 226, 1-16 | 2.9 | 102 |
| 581 | Assessing the reliability of salinity inference models from diatom assemblages: an examination of a 219-lake data set from western North America. *Canadian Journal of Fisheries and Aquatic Sciences*, **1996**, 53, 1580-1594 | 2.4 | 100 |
| 580 | Some sources and sinks of monomethyl and inorganic mercury on Ellesmere Island in the Canadian High Arctic. *Environmental Science & Technology*, **2005**, 39, 2686-701 | 10.3 | 99 |
| 579 | Paleolimnological assessment of long-term water-quality changes in south-central Ontario lakes affected by cottage development and acidification. *Canadian Journal of Fisheries and Aquatic Sciences*, **1996**, 53, 1-17 | 2.4 | 99 |
| 578 | PERIPHYTIC DIATOM ASSEMBLAGES FROM HIGH ARCTIC PONDS1. *Journal of Phycology*, **1995**, 31, 60-693 | | 98 |
| 577 | Diatom-salinity relationships in 111 lakes from the Interior Plateau of British Columbia, Canada: the development of diatom-based models for paleosalinity reconstructions. *Journal of Paleolimnology*, **1994**, 12, 197-221 | 2.1 | 96 |
| 576 | Mountain lakes: Eyes on global environmental change. *Global and Planetary Change*, **2019**, 178, 77-95 | 4.2 | 93 |
| 575 | Diatom assemblages and their relationship to environmental variables in lakes from the boreal forest-tundra ecotone near Yellowknife, Northwest Territories, Canada. *Hydrobiologia*, **1993**, 269-270, 391-404 | 2.4 | 92 |

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| 574 | Establishing reliable minimum count sizes for cladoceran subfossils sampled from lake sediments. *Journal of Paleolimnology*, **2010**, 44, 603-612 | 2.1 | 91 |
| 573 | Diatoms as indicators of lake eutrophication128-168 | | 89 |
| 572 | Climate Change: A planet in flux. *Nature*, **2012**, 483, S12-5 | 50.4 | 86 |
| 571 | Paleoecological investigation of recent lake acidification in the Adirondack Mountains, N.Y.. *Journal of Paleolimnology*, **1990**, 3, 195 | 2.1 | 85 |
| 570 | Quantification of changes in lakewater chemistry in response to acidic deposition. *Nature*, **1990**, 345, 54-58 | 50.4 | 85 |
| 569 | Seabird-driven shifts in Arctic pond ecosystems. *Proceedings of the Royal Society B: Biological Sciences*, **2009**, 276, 591-6 | 4.4 | 82 |
| 568 | Trophic position influences the efficacy of seabirds as metal biovectors. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 10543-8 | 11.5 | 78 |
| 567 | Aerosol-weakened summer monsoons decrease lake fertilization on the Chinese Loess Plateau. *Nature Climate Change*, **2017**, 7, 190-194 | 21.4 | 77 |
| 566 | Dissolved organic carbon thresholds affect mercury bioaccumulation in Arctic lakes. *Environmental Science & Technology*, **2014**, 48, 3162-8 | 10.3 | 77 |
| 565 | Chironomidae (Diptera): quantitative palaeosalinity indicators for lakes of western Canada. *Canadian Journal of Fisheries and Aquatic Sciences*, **1995**, 52, 950-960 | 2.4 | 77 |
| 564 | Physical and chemical limnology of 24 lakes located between Yellowknife and Contwoyto Lake, Northwest Territories (Canada). *Canadian Journal of Fisheries and Aquatic Sciences*, **1997**, 54, 347-358 | 2.4 | 76 |
| 563 | Prehistoric Inuit whalers affected Arctic freshwater ecosystems. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 1613-7 | 11.5 | 73 |
| 562 | Assessment of Changes in Lake Water Chemistry in Sudbury Area Lakes since Preindustrial Times. *Canadian Journal of Fisheries and Aquatic Sciences*, **1992**, 49, 8-16 | 2.4 | 73 |
| 561 | Mallomonadacean microfossils provide evidence of recent lake acidification. *Nature*, **1984**, 307, 628-630 | 50.4 | 73 |
| 560 | PERIPHYTIC DIATOM ASSEMBLAGES FROM ULTRA-OLIGOTROPHIC AND UV TRANSPARENT LAKES AND PONDS ON VICTORIA ISLAND AND COMPARISONS WITH OTHER DIATOM SURVEYS IN THE CANADIAN ARCTIC1. *Journal of Phycology*, **2003**, 39, 465-480 | 3 | 72 |
| 559 | Assessing Trends in Fishery Resources and Lake Water Aluminum from Paleolimnological Analyses of Siliceous Algae. *Canadian Journal of Fisheries and Aquatic Sciences*, **1992**, 49, 116-127 | 2.4 | 71 |
| 558 | Diatom assemblages from Adirondack lakes (New York, USA) and the development of inference models for retrospective environmental assessment. *Journal of Paleolimnology*, **1993**, 8, 27 | 2.1 | 71 |
| 557 | Diatoms as indicators in the Environmental Monitoring and Assessment Program-Surface Waters (EMAP-SW). *Environmental Monitoring and Assessment*, **1994**, 31, 275-307 | 3.1 | 71 |

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| 556 | Time-transgressive onset of the Holocene Optimum in the East Asian monsoon region. *Earth and Planetary Science Letters*, **2016**, 456, 39-46 | 5.3 | 70 |
| 555 | Freshwater diatoms as indicators of environmental change in the High Arctic227-244 | | 70 |
| 554 | Past environmental and climatic changes related to tree-line shifts inferred from fossil diatoms from a lake near the Lena River Delta, Siberia. *Holocene*, **1999**, 9, 547-557 | 2.6 | 70 |
| 553 | Multiveriable environmental interences based on diatom assemblages from Sudbury (Canada) lakes. *Freshwater Biology*, **1991**, 26, 251-266 | 3.1 | 70 |
| 552 | Arctic Holocene proxy climate database □new approaches to assessing geochronological accuracy and encoding climate variables. *Climate of the Past*, **2014**, 10, 1605-1631 | 3.9 | 69 |
| 551 | Quantitative estimates of recent environmental changes in the Canadian High Arctic inferred from diatoms in lake and pond sediments. *Journal of Paleolimnology*, **2005**, 33, 349-360 | 2.1 | 69 |
| 550 | Quantitative inferences of past hypolimnetic anoxia and nutrient levels from a Canadan Precambrian Shield lake. *Journal of Paleolimnology*, **2000**, 23, 319-336 | 2.1 | 69 |
| 549 | Past trophic status and hypolimnetic anoxia during eutrophicaton and remediation of Gravenhurst Bay, Ontario: comparison of diatoms, chironomids, and historical records. *Canadian Journal of Fisheries and Aquatic Sciences*, **2000**, 57, 333-341 | 2.4 | 69 |
| 548 | Atlas of Chrysophycean Cysts **1995**, | | 69 |
| 547 | Diatom response to recent climatic change in a high arctic lake (Char Lake, Cornwallis Island, Nunavut). *Global and Planetary Change*, **2003**, 38, 257-271 | 4.2 | 68 |
| 546 | Long-Term Trends in Lake Water pH and Metal Concentrations Inferred from Diatoms and Chrysophytes in Three Lakes near Sudbury, Ontario. *Canadian Journal of Fisheries and Aquatic Sciences*, **1992**, 49, 17-24 | 2.4 | 68 |
| 545 | Climatic and limnological changes associated with the Younger Dryas in Atlantic Canada. *Climate Dynamics*, **1993**, 8, 177-187 | 4.2 | 67 |
| 544 | The world's largest High Arctic lake responds rapidly to climate warming. *Nature Communications*, **2018**, 9, 1290 | 17.4 | 66 |
| 543 | Diatom responses to 20th century climate-related environmental changes in high-elevation mountain lakes of the northern Canadian Cordillera. *Journal of Paleolimnology*, **2005**, 33, 265-282 | 2.1 | 66 |
| 542 | SCALED CHRYSOPHYTES (CHRYSOPHYCEAE AND SYNUROPHYCEAE) FROM ADIRONDACK DRAINAGE LAKES AND THEIR RELATIONSHIP TO ENVIRONMENTAL VARIABLES1. *Journal of Phycology*, **1992**, 28, 162-178 | 3 | 66 |
| 541 | Fossil synuracean (Chrysophyceae) scales in lake sediments: a new group of paleoindicators. *Canadian Journal of Botany*, **1980**, 58, 458-465 | | 66 |
| 540 | When Did Acid-Sensitive Adirondack Lakes (New York, USA) Begin to Acidify and Are They Still Acidifying?. *Canadian Journal of Fisheries and Aquatic Sciences*, **1994**, 51, 1550-1568 | 2.4 | 65 |
| 539 | Visible spectroscopy reliably tracks trends in paleo-production. *Journal of Paleolimnology*, **2016**, 56, 253-265 | 2.6 | 64 |

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| 538 | Recent changes in a remote Arctic lake are unique within the past 200,000 years. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 18443-6 | 11.5 | 64 |
| 537 | Impacts of climate change on species, populations and communities: palaeobiogeographical insights and frontiers. *Progress in Physical Geography*, **2008**, 32, 139-172 | 3.5 | 64 |
| 536 | Diatom-environmental relationships in 64 alkaline southeastern Ontario (Canada) lakes: a diatom-based model for water quality reconstructions **2001**, 25, 25-42 | | 64 |
| 535 | Biological responses to permafrost thaw slumping in Canadian Arctic lakes. *Freshwater Biology*, **2013**, 58, 337-353 | 3.1 | 63 |
| 534 | Paleolimnological Reconstruction of Holocene Climatic Trends from Two Boreal Treeline Lakes, Northwest Territories, Canada | | 63 |
| 533 | Sediment Core Collection and Extrusion **2002**, 73-105 | | 62 |
| 532 | The distribution of chrysophytes along environmental gradients: their use as biological indicators **1995**, 232-268 | | 62 |
| 531 | Mallomonadacean (Chrysophyceae) assemblages and their relationships with limnological characteristics in 38 Adirondack (New York) lakes. *Canadian Journal of Botany*, **1984**, 62, 911-923 | | 62 |
| 530 | Reconstructing fish populations using Chaoborus (Diptera: Chaoboridae) remains a review. *Quaternary Science Reviews*, **2006**, 25, 2013-2023 | 3.9 | 60 |
| 529 | FACTORS INFLUENCING DIATOM DISTRIBUTIONS IN CIRCUMPOLAR TREELINE LAKES OF NORTHERN RUSSIA. *Journal of Phycology*, **2000**, 36, 1035-1048 | 3 | 60 |
| 528 | Eutrophication and recovery in the High Arctic: Meretta Lake (Cornwallis Island, Nunavut, Canada) revisited. *Hydrobiologia*, **2000**, 431, 193-204 | 2.4 | 60 |
| 527 | Diatoms as indicators of surface water acidity85-127 | | 60 |
| 526 | Responses of Diatom and Chrysophyte Assemblages in Lake 227 Sediments to Experimental Eutrophication. *Canadian Journal of Fisheries and Aquatic Sciences*, **1994**, 51, 2300-2311 | 2.4 | 60 |
| 525 | High arctic ponds receiving biotransported nutrients from a nearby seabird colony are also subject to potentially toxic loadings of arsenic, cadmium, and zinc. *Environmental Toxicology and Chemistry*, **2009**, 28, 2426-33 | 3.8 | 59 |
| 524 | Ecology and spatial distributions of surface-sediment diatoms from 77 lakes in the subarctic Canadian treeline region. *Canadian Journal of Botany*, **2003**, 81, 57-73 | | 59 |
| 523 | Development of diatom-based salinity models for paleoclimatic research from lakes in British Columbia (Canada). *Hydrobiologia*, **1993**, 269-270, 179-196 | 2.4 | 59 |
| 522 | Lake Acidification Recovery can be Monitored using Chrysophycean Microfossils. *Canadian Journal of Fisheries and Aquatic Sciences*, **1989**, 46, 1309-1312 | 2.4 | 59 |
| 521 | New methods for using diatoms and chrysophytes to infer past pH of low-alkalinity lakes. *Limnology and Oceanography*, **1988**, 33, 1451-1462 | 4.8 | 59 |

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| 520 | Climate change forces new ecological states in tropical Andean lakes. *PLoS ONE*, **2015**, 10, e0115338 | 3.7 | 58 |
| 519 | Multi-proxy Holocene palaeoclimatic record from a saline lake in the Canadian Subarctic. *Holocene*, **2000**, 10, 673-686 | 2.6 | 57 |
| 518 | Diatoms as indicators of hydrologic and climatic change in saline lakes41-72 | | 57 |
| 517 | Chrysophycean microfossils in paleolimnological studies. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **1988**, 62, 287-297 | 2.9 | 57 |
| 516 | Problems Associated with the Use of Species Diversity In Paleolimnological Studies. *Quaternary Research*, **1981**, 15, 209-212 | 1.9 | 57 |
| 515 | Global warming triggers the loss of a key Arctic refugium. *Proceedings of the Royal Society B: Biological Sciences*, **2013**, 280, 20131887 | 4.4 | 56 |
| 514 | Climatic control of ultraviolet radiation effects on lakes. *Limnology and Oceanography*, **2003**, 48, 2062-2069 | 4.9 | 56 |
| 513 | DIATOM ASSEMBLAGES AS INDICATORS OF LAKE TROPHIC STATUS IN SOUTHEASTERN ONTARIO LAKES1. *Journal of Phycology*, **1993**, 29, 575-586 | 3 | 56 |
| 512 | Limnological succession in reservoirs: a paleolimnological comparison of two methods of reservoir formation. *Canadian Journal of Fisheries and Aquatic Sciences*, **1999**, 56, 1109-1121 | 2.4 | 55 |
| 511 | An illustrated guide to the identification of cladoceran subfossils from lake sediments in northeastern North America: part 1 The Daphniidae, Leptodoridae, Bosminidae, Polyphemidae, Holopedidae, Sididae, and Macrothricidae. *Journal of Paleolimnology*, **2012**, 48, 571-586 | 2.1 | 54 |
| 510 | Tracking Recovery Patterns in Acidified Lakes: A Paleolimnological Perspective. *Restoration Ecology* , **1998**, 6, 318-326 | 3.1 | 54 |
| 509 | FRESHWATER DIATOMS FROM THE CANADIAN ARCTIC TREELINE AND DEVELOPMENT OF PALEOLIMNOLOGICAL INFERENCE MODELS1. *Journal of Phycology*, **2002**, 38, 249-264 | 3 | 54 |
| 508 | Arctic climate warming and sea ice declines lead to increased storm surge activity. *Geophysical Research Letters*, **2013**, 40, 1386-1390 | 4.9 | 52 |
| 507 | Environmental control of diatom community size structure varies across aquatic ecosystems. *Proceedings of the Royal Society B: Biological Sciences*, **2009**, 276, 1627-34 | 4.4 | 52 |
| 506 | Reorganization of algal communities in the Lake of the Woods (Ontario, Canada) in response to turn-of-the-century damming and recent warming. *Limnology and Oceanography*, **2010**, 55, 2433-2451 | 4.8 | 52 |
| 505 | Accelerated melting of Himalayan snow and ice triggers pronounced changes in a valley peatland from northern India. *Geophysical Research Letters*, **2006**, 33, | 4.9 | 52 |
| 504 | Food web changes in arctic ecosystems related to climate warming. *Global Change Biology*, **2005**, 11, 1381-1386 | 11.4 | 52 |
| 503 | Paleolimnological evidence for recent acidification of Big Moose Lake, Adirondack Mountains, N.Y. (USA). *Biogeochemistry*, **1987**, 3, 267-296 | 3.8 | 51 |

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| 502 | Climate change and mercury accumulation in Canadian high and subarctic lakes. *Environmental Science & Technology*, **2011**, 45, 964-70 | 10.3 | 50 |
| 501 | Relationship between Chrysophyte Assemblages and Environmental Variables in Seventy-Two Sudbury Lakes as Examined by Canonical Correspondence Analysis (CCA). *Canadian Journal of Fisheries and Aquatic Sciences*, **1989**, 46, 1667-1676 | 2.4 | 50 |
| 500 | Impacts of seabird-derived nutrients on water quality and diatom assemblages from Cape Vera, Devon Island, Canadian High Arctic. *Hydrobiologia*, **2009**, 621, 191-205 | 2.4 | 49 |
| 499 | The jellification of north temperate lakes. *Proceedings of the Royal Society B: Biological Sciences*, **2015**, 282, 20142449 | 4.4 | 48 |
| 498 | An illustrated guide to the identification of cladoceran subfossils from lake sediments in northeastern North America: part 2The Chydoridae. *Journal of Paleolimnology*, **2012**, 48, 587-622 | 2.1 | 48 |
| 497 | Comparison of diatoms, fossil pigments and historical records as measures of lake eutrophication. *Freshwater Biology*, **1997**, 38, 401-417 | 3.1 | 48 |
| 496 | Diatoms and their relationship to environmental variables from lakes and ponds on Bathurst Island, Nunavut, Canadian High Arctic. *Hydrobiologia*, **2001**, 450, 215-230 | 2.4 | 48 |
| 495 | Cladocera assemblages from the surface sediments of south-central Ontario (Canada) lakes and their relationships to measured environmental variables. *Hydrobiologia*, **2008**, 600, 105-119 | 2.4 | 47 |
| 494 | Diatom assemblage response to Iroquoian and Euro-Canadian eutrophication of Crawford Lake, Ontario, Canada. *Journal of Paleolimnology*, **2007**, 37, 233-246 | 2.1 | 46 |
| 493 | Diatom and chrysophyte functions and inferences of post-industrial acidification and recent recovery trends in Killarney lakes (Ontario, Canada). *Journal of Paleolimnology*, **2002**, 27, 79-96 | 2.1 | 46 |
| 492 | BENTHIC DIATOM AUTECOLOGY AND INFERENCE MODEL DEVELOPMENT FROM THE CANADIAN HIGH ARCTIC ARCHIPELAGO1. *Journal of Phycology*, **2005**, 41, 30-45 | 3 | 46 |
| 491 | Chrysophycean stomatocysts from the postglacial sediments of a High Arctic lake. *Canadian Journal of Botany*, **1988**, 66, 1117-1128 | | 46 |
| 490 | FRESHWATER DIATOM ASSEMBLAGES FROM 23 LAKES LOCATED NEAR NORILSK, SIBERIA: A COMPARISON WITH ASSEMBLAGES FROM OTHER CIRCUMPOLAR TREELINE REGIONS. *Diatom Research*, **1999**, 14, 285-305 | 0.9 | 45 |
| 489 | Limnology of high arctic ponds (Cape Herschel, Ellesmere Island, N. W. T.). *Archiv F Hydrobiologie*, **1994**, 131, 401-434 | | 45 |
| 488 | Historical pesticide applications coincided with an altered diet of aerially foraging insectivorous chimney swifts. *Proceedings of the Royal Society B: Biological Sciences*, **2012**, 279, 3114-20 | 4.4 | 44 |
| 487 | Physical and Chemical Limnological Characteristics of 38 Lakes and Ponds on Bathurst Island, Nunavut, Canadian High Arctic. *International Review of Hydrobiology*, **2001**, 86, 1-22 | 2.3 | 44 |
| 486 | Holocene sedimentation in glacial Tasikutaaq Lake, Baffin Island. *Canadian Journal of Earth Sciences* , **1988**, 25, 810-823 | 1.5 | 44 |
| 485 | The Diatoms: Applications for the Environmental and Earth Sciences122-151 | | 44 |

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| 484 | Polar lessons learned: long-term management based on shared threats in Arctic and Antarctic environments. *Frontiers in Ecology and the Environment*, **2015**, 13, 316-324 | 5.5 | 43 |
| 483 | Industrial arsenic contamination causes catastrophic changes in freshwater ecosystems. *Scientific Reports*, **2015**, 5, 17419 | 4.9 | 43 |
| 482 | Limnological Characteristics of 70 Lakes Spanning Arctic Treeline from Coronation Gulf to Great Slave Lake in the Central Northwest Territories, Canada. *International Review of Hydrobiology*, **1998**, 83, 183-203 | 2.3 | 43 |
| 481 | Asian dust-storm activity dominated by Chinese dynasty changes since 2000 BP. *Nature Communications*, **2020**, 11, 992 | 17.4 | 42 |
| 480 | Multi-trophic level response to extreme metal contamination from gold mining in a subarctic lake. *Proceedings of the Royal Society B: Biological Sciences*, **2016**, 283, | 4.4 | 42 |
| 479 | Holocene treeline dynamics in the mountains of northeastern British Columbia, Canada, inferred from fossil pollen and stomata. *Holocene*, **2003**, 13, 161-173 | 2.6 | 42 |
| 478 | Diatoms as indicators of water level change in freshwater lakes183-202 | | 42 |
| 477 | Chrysophyte cysts in 36 Canadian high arctic ponds. *Nordic Journal of Botany*, **1992**, 12, 471-499 | 1.1 | 42 |
| 476 | Prolonged Ice Cover Dampens Diatom Community Responses to Recent Climatic Change in High Arctic Lakes. *Arctic, Antarctic, and Alpine Research*, **2008**, 40, 364-372 | 1.8 | 41 |
| 475 | USE OF ALGAE IN ENVIRONMENTAL ASSESSMENTS **2003**, 775-804 | | 41 |
| 474 | Assessment of the effects of logging, forest fires and drought on lakes in northwestern Ontario: a 30-year paleolimnological perspective. *Canadian Journal of Forest Research*, **1998**, 28, 1546-1556 | 1.9 | 41 |
| 473 | Algal responses to dissolved organic carbon loss and pH decline during whole-lake acidification: Evidence from paleolimnology. *Limnology and Oceanography*, **1999**, 44, 757-773 | 4.8 | 41 |
| 472 | Cladocera and Anostraca from the Interior Plateau of British Columbia, Canada, as paleolimnological indicators of salinity and lake level. *Hydrobiologia*, **1999**, 392, 129-141 | 2.4 | 41 |
| 471 | Paleoclimate proxy data from freshwater arctic diatoms. *Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology*, **1988**, 23, 837-844 | | 41 |
| 470 | Assessing pH changes since pre-industrial times in 51 low-alkalinity lakes in Nova Scotia, Canada. *Canadian Journal of Fisheries and Aquatic Sciences*, **2007**, 64, 1043-1054 | 2.4 | 40 |
| 469 | A landscape approach to examining spatial patterns of limnological variables and long-term environmental change in a southern Canadian lake district. *Freshwater Biology*, **2003**, 48, 1676-1697 | 3.1 | 40 |
| 468 | Paleolimnological evidence of limnetic nutrient concentration equilibrium in a shallow, macrophyte-dominated lake. *Aquatic Sciences*, **2000**, 62, 20 | 2.5 | 40 |
| 467 | Paleolimnological Reconstruction of Holocene Climatic Trends from Two Boreal Treeline Lakes, Northwest Territories, Canada. *Arctic, Antarctic, and Alpine Research*, **1999**, 31, 82-93 | 1.8 | 40 |

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