

Bernard Jackson Cosby, Jr.

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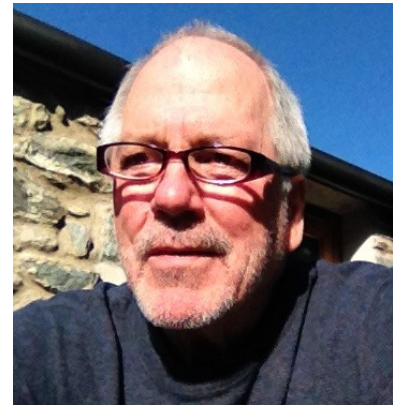
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Citizenship: United States (UK resident)

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**Education**

Ph.D. Environmental Sciences, University of Virginia; B.S. Chemistry, University of Virginia

Experience

I have over 40 years of research experience in the U.S., Canada and Europe studying the hydrology and biogeochemistry of soils and natural waters. My research focuses on development of process-based ecosystem models for catchment soils, low-order streams and small lakes, and coastal and estuarine systems. I use these models for increasing scientific understanding and as tools for knowledge transfer and environmental decision-making. My background includes extensive laboratory and field experience in analytical chemical and instrumental techniques applied to the analysis of soils and natural waters. I've designed and implemented field experiments ranging from plot-scale, to hill-slope, to whole-catchment manipulations. My work has contributed to over 160 peer-reviewed papers which have been cited more than 7,000 times (h-index of 35) leading to recognition as an ISI Highly Cited Researcher in the two fields of Ecology/Environment and Engineering.

Employment

2013-present *Land Management & Ecosystem Services Scientist*, UK Centre for Ecology & Hydrology
 2005-2014 *Co-director*, Shenandoah Watershed Study, Univ. of Virginia, USA
 1996-2014 *Research Professor*, Dept. of Environmental Sciences, Univ. of Virginia, USA
 1991-1996 *Research Associate Professor*, Dept. of Environmental Sciences, Univ. of Virginia, USA
 1989-1991 *Associate Professor*, Nicholas School of Environment & Earth Sciences, Duke Univ., USA
 1985-1989 *Research Assistant Professor*, Dept. of Environmental Sciences, Univ. of Virginia, USA
 1984-1985 *Research Fellow*, Dept. of Environmental Science, Lancaster Univ., UK
 1982-1984 *Postdoctoral Associate*, Dept. of Environmental Sciences, Univ. of Virginia, USA
 1977-1978 *Research Associate*, Dept. of Environmental Sciences, Univ. of Virginia, USA
 1972-1975 *Research Assistant*, Dept. of Environmental Sciences, Univ. of Virginia, USA
 1970-1972 *Chemist*, US Environmental Protection Agency, Mid-Atlantic Lab, Charlottesville, VA, USA

Visiting, Adjunct and Associate Positions

2013-present *Associate*, Water Research Associates, Wallingford, Oxfordshire, UK
 2013-2019 *Honorary Fellow*, James Hutton Institute, Aberdeen, Scotland, UK
 2013-2014 *Distinguished Visiting Scholar*, School of Geography & Environment, Univ. of Oxford, UK
 2012-2013 *Fellow*, Centre for Ecology & Hydrology, Wallingford, Oxfordshire, UK
 2008-2009 *Senior Research Associate*, School of Geography & Environment, Univ. of Oxford, UK
 2005-2014 *Adjunct Professor*, Environmental & Life Sciences Graduate Program, Trent Univ., CA
 2000-2005 *Visiting Professor of Environmental Sciences*, Dept. of Geography, Univ. of Reading, UK
 1991-1993 *Adjunct Associate Professor*, Nicholas School of the Environment, Duke Univ., USA
 1988-1990 *Senior Scientific Fellow*, Norwegian Institute for Water Research, Oslo, Norway
 1985 *Visiting Scientist*, Institute of Hydrology, Wallingford, Oxfordshire, UK
 1978 *Visiting Scientist*, Freshwater Laboratory, Danish National EPA, Silkeborg, Denmark
 1976 *Visiting Research Student*, Scottish Marine Biological Association, Oban, Scotland, UK

Recognition

Fellow of Brown College, University of Virginia, (2011-14)
 ISI Highly Cited Researcher in two categories: Ecology/Environment and Engineering (2001)
 Libra Visiting Professor of Ecology & Environmental Science, Univ. of Maine, USA (1994-95)
 Director's Technical Contribution Award, US Environmental Protection Agency (1989)
 President's & Visitors' Research Prize in Natural Sciences & Mathematics, Univ. of Virginia (1986)
 Governor's Fellow and DuPont Scholar (while student at University of Virginia)

Professional Membership (* currently active)

Society of the Sigma Xi (honorary)	Alpha Chi Sigma
European Geological Union *	Ecological Society of America
American Geophysical Union *	Estuarine Research Federation
Ecosystem Services Partnership *	Societas Internationalis Limnologiae
Soil Science Society of America *	American Society of Limnology and Oceanography
British Ecological Society *	American Association of University Professors
British Society of Soil Science *	American Association for Advancement of Science

Committees and Professional Service

UN-ECE Joint Expert Group, Dynamic Modelling (Convention Long-Range Transboundary Air Pollution)
 Sêr Cymru National Research Network for Low Carbon, Energy & Environment (NRN-LCEE), Wales, UK
 Independent Environmental Advisory Panel, Dŵr Cymru Welsh Water, UK
 Program Advisory Committee, Macronutrient Cycles Programme, NERC, UK
 Chesapeake Watershed Cooperative Ecosystem Studies Unit, National Park Service, USA
 Critical Loads Ad Hoc Committee, National Acid Deposition Program (NADP), USA
 Multi-Pollutant Accountability Assessment Committee, NARSTO, USA
 Acidification Modeling and Critical Load Ad Hoc Expert Workgroup, US-Canada Air Quality Committee

International Research Programmes (at University of Virginia)

Cooperating Scientist – EUROLIMPACS (6th Framework Programme) EU
 Cooperating Scientist – NITREX (EC project EV5V-CT93-0264) EU
 Cooperating Scientist – DYNAMO (EC project ENV4-CT95-0030) EU
 Cooperating Scientist – RECOVER 2010 (EC project EVK1-CT-1999-00018) EU
 Cooperating Scientist – BMW (EC project EVK1-CT-2001-00093) EU
 Programme Review "ASTA - International and national abatement strategies for transboundary air pollution" for MISTRA, Foundation for Strategic Environmental Research in Sweden. 2002.

Peer Review Activities

National Science Foundation	Journal of Hydrology	Canadian J. Fish. & Aq. Sci.
U.S. Geological Survey	Hydrological Processes	Applied & Environ. Microbiology
U.S. National Park Service	Water Resources Research	Journal Environmental Quality
U.S. Environ. Protection Agency	Journal Applied Meteorology	Water, Air & Soil Pollution
U.K. Natural Environ. Res. Council	Environmental Science & Tech.	Science of Total Environment

Post Graduate Students

Ph.D. Committees – 13 (Univ. Virginia, Duke Univ., Univ. North Carolina, Trent Univ.)
 Ph.D. External Examiner – 6 (Wageningen Univ., Trent Univ., Lund Univ., Tech. Univ. of Finland)
 M.S. Committees – 32 (Univ. Virginia, Trent Univ.)
 M.E.M. Committees – 11 (Duke Univ.) M.Ed. Committees – 2 (VA Commonwealth Univ.)
 Undergraduate Distinguished Major Thesis Committees – 5 (Univ. Virginia)
 Undergraduate Research Students – 12 (Univ. Virginia)

Courses Taught

Catchment Hydrology; Catchment Hydrogeochemistry; Water on Earth; Watershed Hydrology;
 Water Resources Modelling; Special Topics in Groundwater; Water and Air Resources Seminar;
 Hydrological Transport Processes

Shared Teaching and Lecture Series

Environmental Chemistry; Physical Hydrology, Modelling Lake Hydrology; Chemistry of Natural Waters; Advanced Quantitative Methods; Environmental Systems Analysis; Hydrological Transport Processes; Special Topics in Ecosystem Modelling; Biogeochemistry of Forested Catchments; Water Quality Analysis; Hydrology Seminar; Aquatic Ecology

Administrative Committees (University)

Promotion/Review - 1996(2), 1997, 2003(2), 04(3), 05, 06, 07, 08, 09(2), 10(2), 11(2) (Univ. Virginia)
 Research Faculty - 1998-99, 2000-02 (chair); Depart. 10-year Review – 1997, 2005 (Univ. Virginia)
 Research Policy - 1993-94 (Univ. Virginia); Facilities Renovation – 1996 (Univ. Virginia)

Professional Consulting

Norwegian Institute for Water Research
 E&S Environmental Chemistry
 U.S. Environmental Protection Agency
 Battelle Pacific Northwest Laboratories
 Kilkelly Environmental Associates
 Oak Ridge National Laboratory

Environmental Consult. & Tech.
 Systems Research & Applications
 Cetacean Logic Foundation
 Resources for the Future
 Research Triangle Institute
 Carnegie-Mellon University

Perrin Quarles Assoc.
 Western Aquatics. Inc.
 The Cadmus Group
 Peer Consultants, Inc.
 FTN Associates, Ltd.
 SRA International

Publication Highlights

Three peer-reviewed articles are published in Nature journals. Four peer-reviewed articles are in the top 1% of cited papers in their respective journals: 9th most cited in *Bioscience* (of 5,709); 14th and 33rd most cited in *Water Resources Research* (of 14,947); and 39th most cited in *Hydrology & Earth Systems Sciences* (of 4,131) (<https://incites.clarivate.com/#/explore/0/journal>; December, 2019). Named Highly Cited Researcher by the Institute for Scientific Information (ISI) in 2001 in the individual fields of Engineering and Ecology/Environment (<https://clarivate.com/webofsciencegroup/campaigns/highly-cited-researchers-2019-archive/>).

Citation Summaries: (December, 2019)

Researcher ID (Publons)

Publications = 160

Publications in Web of Science = 151

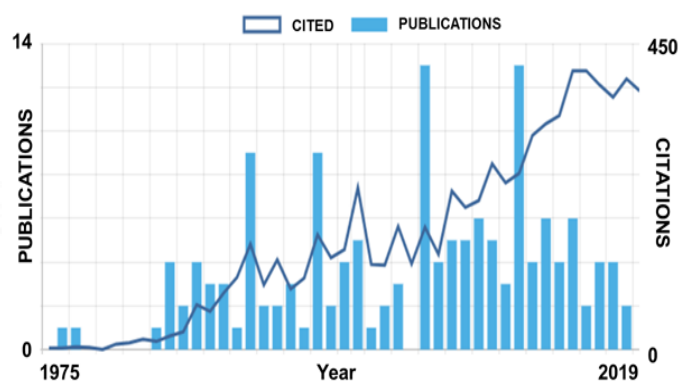
Sum of the Times Cited = 7,348

Average Citations per Item = 49

Average Citations per Year = 163

h-index = 35

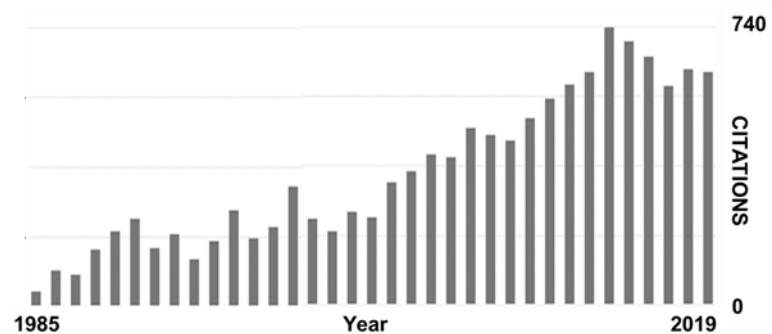
www.researcherid.com/rid/B-5653-2012



Google Scholar

Items in Publication List = 224

	Career Since 1985	Last 5 Years Since 2014
Citations:	12,676	3,925
h-index	47	24
i10-index	135	55



<https://scholar.google.com/citations?user=F5iHWf4AAAAJ&hl=en>

Peer-reviewed Papers (172)**2019 (4)**

- Cagnarini, C., E. Blyth, B.A. Emmett, C.D. Evans, R.I. Griffiths, A. Keith, L. Jones, I. Lebron, N.P. McNamara, J. Puissant, S. Reinsch, D.A. Robinson, E.C. Rowe, A.R.C. Thomas, S.M. Smart, J. Whitaker and B.J. Cosby. 2019. Zones of influence for soil organic matter dynamics: A conceptual framework for data and models. *Global Change Biology*, 25: 3996–4007. <https://doi.org/10.1111/gcb.14787>
- Nundloll, V., B. Porter, G.S. Blair, B. Emmett, J. Cosby, D.L. Jones, D. Chadwick, B. Winterbourn, P. Beattie, G. Dean, R. Shaw, W. Shelley, M. Brown, and I. Ullah. 2019. The Design and Deployment of an End-To-End IoT Infrastructure for the Natural Environment. *Future Internet*, 11: 129. <https://doi.org/10.3390/fi11060129>
- Posch, M., J. Aherne, F. Moldan, C.D. Evans, M. Forsius, T. Larssen, R. Helliwell, and B.J. Cosby, B.J. 2019. Dynamic Modeling and Target Loads of Sulfur and Nitrogen for Surface Waters in Finland, Norway, Sweden, and the United Kingdom. *Environmental Science & Technology*, 53: 5062-5070. <https://doi.org/10.1021/acs.est.8b06356>
- Thomas, A., D. Masante, B. Jackson, B. Cosby, B. Emmett and L. Jones. 2019. Fragmentation and thresholds in hydrological flow-based ecosystem services. *Ecological Applications* (on line version), <https://doi.org/10.1002/eap.2046>

2018 (2)

- Norton, L.R., S.M. Smart, L.C. Maskell, P.A. Henrys, C.M. Wood, A.M. Keith, B.A. Emmett, **B.J. Cosby**, A. Thomas, P.A. Scholefield, S. Greene, R.D. Morton and C.S. Rowland. 2018. Identifying effective approaches for monitoring national natural capital for policy use. *Ecosystem Services*, 30: 98-106. <https://doi.org/10.1016/j.ecoser.2018.01.017>
- Seymour, M., I. Durance, **B.J. Cosby**, E. Ransom-Jones, K. Deiner, S.J. Ormerod, J.K. Colbourne, G. Wilgar, G.R. Carvalho, M. de Bruyn, F. Edwards, B.A. Emmett, H.M. Bik and S. Creer. 2018. Acidity promotes degradation of multi-species environmental DNA in lotic mesocosms. *Communications Biology*, 1: 1-8. <https://doi.org/10.1038/s42003-017-0005-3>

2017 (4)

- Bussi, G., P.G. Whitehead, A. Thomas, D. Masante, L. Jones, **B.J. Cosby**, B.A. Emmett, S.K. Malham, C. Prudhomme and H. Prosser. 2017. Climate and land-use change impact on faecal indicator bacteria in a temperate maritime catchment (the River Conwy, Wales). *Journal of Hydrology*, 553: 248-261. <https://doi.org/10.1016/j.jhydrol.2017.08.011>
- Moldan, F., J. Stadmark, J. Fölster, S. Jutterström, M.N. Futter, **B.J. Cosby** and R.F. Wright. 2017. Consequences of intensive forest harvesting on the recovery of Swedish lakes from acidification and on critical load exceedances. *Science of the Total Environment*, 603-604: 562-569. <https://doi.org/10.1016/j.scitotenv.2017.06.013>
- Smart, S.M., H.C. Glanville, M.C. Blanes, L.M. Mercado, B.A. Emmett, D.L. Jones, **B.J. Cosby**, R.H. Marrs, A. Butler, M.R. Marshall, S. Reinsch, C. Herrero-Jáuregui and J.G. Hodgson. 2017. Leaf dry matter content is better at predicting above-ground net primary production than specific leaf area. *Functional Ecology*, 31 (6): 1336-1344. <https://doi.org/10.1111/1365-2435.12832>
- Sharps, K., D. Masante, A. Thomas, B. Jackson, J. Redhead, L. May, H. Prosser, **B. Cosby**, B. Emmett and L. Jones. 2017. Comparing strengths and weaknesses of three ecosystem services modelling tools in a diverse UK river catchment. *Science of the Total Environment*, 584-585: 118-130. <https://doi.org/10.1016/j.scitotenv.2016.12.160>

2016 (4)

- Banzhaf, H.S., D. Burtraw, S.C. Criscimagna, **B.J. Cosby**, D.A. Evans, A.J. Krupnick and J.V. Siikamäki. 2016. Policy Analysis: Valuation of Ecosystem Services in the Southern Appalachian Mountains. *Environmental Science & Technology* 50: 2830-2836. <https://doi.org/10.1021/acs.est.5b03829>

Durance, I., M.W. Bruford, R. Chalmers, N.A. Chappell, M. Christie, **B.J. Cosby**, D. Noble, S.J. Ormerod, H. Prosser, A. Weightman and G. Woodward. 2016. The challenges of linking ecosystem services to biodiversity: lessons from a large-scale freshwater study. *Advances in Ecological Research*, 54: 87-134. <https://doi.org/10.1016/bs.aecr.2015.10.003>

Emmett, B.A., D. Cooper, S. Smart, B. Jackson, A. Thomas, **B. Cosby**, C. Evans, H. Glanville, J.E. McDonald, S.K. Malham, M. Marshall, S. Jarvis, P. Rajko-Nenow, G.P. Webb, S. Ward, E. Rowe, L. Jones, A.J. Vanbergen, A. Keith, H. Carter, M.G. Pereira, S. Hughes, I. Lebron, A. Wade and D.L. Jones. 2016. Spatial patterns and environmental constraints on ecosystem services at a catchment scale. *Science of the Total Environment*, 572: 1586-1600. <https://doi.org/10.1016/j.scitotenv.2016.04.004>

Skeffington, R.A., **B.J. Cosby** and P.G. Whitehead. 2016. Long-term predictions of ecosystem acidification and recovery. *Science of the Total Environment*, 568: 381-390. <https://doi.org/10.1016/j.scitotenv.2016.06.033>

2015 (3)

Forsius, M., F. Moldan, T. Larssen, M. Posch, J. Aherne, E. Lund, R.F. Wright and **B.J. Cosby**. 2015. National-Scale Dynamic Model Applications for Nordic Lake Catchments. In: de Vries W., Hettelingh J.P., Posch M. (eds) *Critical Loads and Dynamic Risk Assessments*. Environmental Pollution, vol 25. Springer, Dordrecht. 463-484. https://link.springer.com/chapter/10.1007%2F978-94-017-9508-1_18

Oulehle, F., **B.J. Cosby**, K. Austnes, C.D. Evans, J. Hruška, J. Kopáček, F. Moldan and R.F. Wright. 2015. Modelling inorganic nitrogen in runoff: seasonal dynamics at four European catchments as simulated by the MAGIC model. *Science of the Total Environment*, 536: 1019-1028. <https://doi.org/10.1016/j.scitotenv.2015.05.047>

Valinia, S., M.N. Futter, **B.J. Cosby**, P. Rosén and J. Fölster. 2015. Simple models to estimate historical and recent changes of total organic carbon concentrations in lakes. *Environmental Science & Technology*, 49 (1): 386-394. <https://doi.org/10.1021/es503170r>

2014 (6)

Helliwell, R.C., J. Aherne, G. MacDougall, T.R. Nisbet, D. Lawson, **B.J. Cosby** and C.D. Evans. 2014. Past acidification and recovery of surface waters, soils and ecology in the United Kingdom: Prospects for the future under current deposition and land use protocols. *Ecological Indicators*, 37: 381-395. <https://doi.org/10.1016/j.ecolind.2013.02.005>

Helliwell, R.C., R.F. Wright, L.A. Jackson-Blake, R.C. Ferrier, J. Aherne, **B.J. Cosby**, C.D. Evans, M. Forsius, J. Hruška, A. Jenkins, P. Krám, J. Kopáček, V. Majer, F. Moldan, M. Posch, J.M. Potts, M. Rogora and W. Schöpp. 2014. Assessing recovery from acidification of European surface waters in the year 2010: Evaluation of projections made with the MAGIC model in 1995. *Environmental Science and Technology*, 48: 13280-13288. <https://doi.org/10.1021/es502533c>

Hruška, J., P. Krám, F. Moldan, F. Oulehle, C.D. Evans, R.F. Wright, J. Kopáček and **B.J. Cosby**. 2014. Changes in soil dissolved organic carbon affect reconstructed history and projected future trends in surface water acidification. *Water, Air and Soil Pollution*, 225: 13 pages. <https://doi.org/10.1007/s11270-014-2015-9>

McDonnell, T.G., T.J. Sullivan, P.F. Hessburg, K.M. Reynolds, N.A. Povak, **B.J. Cosby**, W.A. Jackson and R.B. Salter. 2014. Steady-state sulfur critical loads and exceedances for protection of aquatic ecosystems in the US southern Appalachian Mountains. *Journal of Environmental Management*, 146: 407-419. <https://doi.org/10.1016/j.jenvman.2014.07.019>

Povak, N.A., P.F. Hessburg, T.C. McDonnell, K.M. Reynolds, T.J. Sullivan, R.B. Salter and **B.J. Cosby**. 2014. Machine learning and linear regression models to predict catchment-level base cation weathering rates across the southern Appalachian Mountain region, USA. *Water Resources Research*, 50: 2798-2814. <https://doi.org/10.1002/2013WR014203>

Rice, K.R., T.M. Scanlon, J.A. Lynch and **B.J. Cosby**. 2014. Decreased atmospheric sulfur deposition across the southeastern U.S.: When will watersheds release stored sulfate? *Environmental Science and Technology*, 48: 10071-10078. <https://doi.org/10.1021/es501579s>

2013 (4)

- Kopáček, J., **B.J. Cosby**, C.D. Evans, J. Hruška, F. Moldan, F. Oulehle, H. Šantrůčková, K. Tahovská and R.F. Wright. 2013. Nitrogen, organic carbon and sulfur cycling in terrestrial ecosystems: Linking nitrogen saturation to carbon limitation of soil microbial processes. *Biogeochemistry*, 115: 33-51. <https://doi.org/10.1007/s10533-013-9892-7>
- McDonnell, T.C., T.J. Sullivan, **B.J. Cosby**, W.A. Jackson and K. Elliott. 2013. Effects of Climate, Land Management and Sulfur Deposition on Soil Base Cation Supply in National Forests of the Southern Appalachian Mountains. *Water, Air and Soil Pollution*, 224: 1733-1750. <https://doi.org/10.1007/s11270-013-1733-8>
- Moldan, F., **B.J. Cosby** and R.F. Wright. 2013. Modeling past and future acidification of Swedish lakes. *Ambio*, 42: 577-586. <https://doi.org/10.1007/s13280-012-0360-8>
- Robison, A.L., T.M. Scanlon, **B.J. Cosby**, J.R. Webb and J.N. Galloway. 2013. Roles of sulfate adsorption and base cation supply in controlling the chemical response of streams of western Virginia to reduced acid deposition. *Biogeochemistry*, 116: 119-130. <https://doi.org/10.1007/s10533-013-9921-6>

2012 (6)

- Greaver T.L., T.J. Sullivan, J.D. Herrick, M.C. Barber, J.S. Baron, **B.J. Cosby**, M.E. Deerhake, R.I. Dennis, J.J.B. Dubois, C.I. Goodale, A.T. Herlihy, G.B. Lawrence, L. Liu, J.A. Lynch and K.J. Novak. 2012. Ecological effects of nitrogen and sulfur air pollution in the US: what do we know? *Frontiers of Ecology and the Environment*, 10: 365-372. <https://doi.org/10.1890/110049>
- McDonnell, T.C., **B.J. Cosby** and T.J. Sullivan. 2012. Regionalization of soil base cation weathering for evaluating stream water acidification in the Appalachian Mountains, USA. *Environmental Pollution*, 162: 338-344. <https://doi.org/10.1016/j.envpol.2011.11.025>
- Oulehle, F., **B.J. Cosby**, R.F. Wright, J. Hruška, J. Kopáček, P. Krám, C.D. Evans and F. Moldan. 2012. Modelling soil nitrogen: The MAGIC model with nitrogen retention linked to carbon turnover using decomposer dynamics. *Environmental Pollution*, 165: 158-166. <https://doi.org/10.1016/j.envpol.2012.02.021>
- Reynolds, K.M., P.F. Hessburg, T.J. Sullivan, N. Povak, T.C. McDonnell, **B.J. Cosby** and W.A. Jackson. 2012. Spatial Decision Support for Assessing Impacts of Atmospheric Sulfur Deposition on Aquatic Ecosystems in the Southern Appalachian Region. HICSS '12 Proceedings of the 2012 45th Hawaii International Conference on System Sciences, pp.1197-1206, IEEE Computer Society, Washington DC, USA <https://ieeexplore.ieee.org/document/6149032>
- Sullivan, T.J., **B.J. Cosby**, C.T. Driscoll, T.C. McDonnell, A.T. Herlihy and D.A. Burns. 2012. Target loads of atmospheric sulfur and nitrogen deposition for protection of acid-sensitive aquatic resources in the Adirondack Mountains, New York. *Water Resources Research*, 48: 16 pages. <https://doi.org/10.1029/2011WR011171>
- Sullivan, T.J., **B.J. Cosby**, T.C. McDonnell, E. Porter, T. Blett, R. Haeuber, C. Huber and J. Lynch. 2012. Critical loads of acidity to protect and restore acid-sensitive streams in Virginia and West Virginia. *Water, Air and Soil Pollution*, 223: 5759-5771. <https://doi.org/10.1007/s11270-012-1312-4>

2011 (4)

- Herbert, D.A., W.B. Perry, **B.J. Cosby** and J.W. Fourqurean. 2011. Projected reorganization of Florida Bay seagrass communities in response to the increased freshwater inflow of Everglades restoration. *Estuaries and Coasts*, 34: 973-992. <https://doi.org/10.1007/s12237-011-9388-4>
- Sullivan, T.J., **B.J. Cosby** and W.A. Jackson. 2011. Target loads of atmospheric sulfur deposition for the protection and recovery of acid-sensitive streams in the Southern Blue Ridge Province. *Journal of Environmental Management*, 92: 2953-2960. <https://doi.org/10.1016/j.jenvman.2011.07.014>
- Sullivan, T.J., **B.J. Cosby**, C.T. Driscoll, T.C. McDonnell and A.T. Herlihy. 2011. Target loads of atmospheric sulfur deposition protect terrestrial resources in the Adirondack Mountains, New York, against biological impacts caused by soil acidification. *Journal of Environmental Studies & Science*, 1: 301-314. <https://doi.org/10.1007/s13412-011-0062-8>

Sullivan, T.J., **B.J. Cosby**, W.A. Jackson, K.U. Snyder and A.T. Herlihy. 2011. Acidification and prognosis for future recovery of acid-sensitive streams in the Southern Blue Ridge Province. *Water, Air and Soil Pollution*, 219: 11-26. <https://doi.org/10.1007/s11270-010-0680-x>

2010 (6)

Evans, C.D., D. Cooper, R. Monteith, R. Helliwell, F. Moldan, J. Hall, E. Rowe and **B.J. Cosby**. 2010. Linking monitoring and modelling: Can long-term datasets be used more effectively as a basis for large-scale prediction? *Biogeochemistry*, 101: 211-227. <https://doi.org/10.1007/s10533-010-9413-x>

Larssen, T., **B.J. Cosby**, E. Lund and R.F. Wright. 2010. Modelling future acidification and fish populations in Norwegian surface waters. *Environmental Science and Technology*, 44: 5345-5361. <https://doi.org/10.1021/es100792m>

McDonnell, T.C., **B.J. Cosby**, T.J. Sullivan, S.G. McNulty and E.C. Cohen. 2010. Comparison among model estimates of critical loads of acidic deposition using different sources and scales of input data. *Environmental Pollution*, 158: 2934-2939. <https://doi.org/10.1016/j.envpol.2010.06.007>

Tominaga, K., J. Aherne, S.A. Watmough, M. Alveteg, **B.J. Cosby**, C.T. Driscoll, M. Posch and A. Pourmokhtarian. 2010. Predicting acidification recovery at the Hubbard Brook Experimental Forest, New Hampshire: Evaluation of four models. *Environmental Science and Technology*, 44: 9003-9009. <https://doi.org/10.1021/es102243j>

Whitfield, C.J., J. Aherne, **B.J. Cosby** and S.A. Watmough. 2010. Modelling boreal lake catchment response to anthropogenic acid deposition. *Journal of Limnology*, 69: 135-146. <https://doi.org/10.3274/JL10-69-S1-14>

Whitfield, C.J., J. Aherne, **B.J. Cosby** and S.A. Watmough. 2010. Modelling catchment response to acid deposition: A regional dual application of the MAGIC model to soils and lakes in the Athabasca oil sands region. Alberta. *Journal of Limnology*, 69: 147-160. <https://doi.org/10.3274/JL10-69-S1-15>

2009 (3)

Lovett, G.M., T.H. Tear, D.C. Evers, S.E.G. Findlay, **B.J. Cosby**, J.K. Dunscomb, C.T. Driscoll and K.C. Weathers. 2009. Effects of Air Pollution on Ecosystems and Biological Diversity in the Eastern United States. *Year in Ecology and Conservation Biology* 2009, 1162: 99-135. <https://doi.org/10.1111/j.1749-6632.2009.04153.x>

Moore, C.W., **B.J. Cosby**, J.N. Galloway and M.S. Castro. 2009. Relationship between pH and stream water total mercury concentrations in Shenandoah National Park. *Water, Air and Soil Pollution*, 201: 233-238. <https://doi.org/10.1007/s11270-008-9940-4>

Tominaga, K., J. Aherne, S.A. Watmough, M. Alveteg, **B.J. Cosby**, C.T. Driscoll and M. Posch. 2009. Voyage without constellation: evaluating the performance of three uncalibrated process-oriented models. *Hydrology Research*, 40: 261-272. <https://doi.org/10.2166/nh.2009.085>

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