

CURRICULUM VITAE (Jerome Nriagu)

PERSONAL DATA

Name: Jerome Okon Nriagu
Place of birth: Ora-eri Town, Nigeria
Citizenship: United States (formerly Canadian)

EDUCATION

D.Sc. (meritorious), University of Ibadan, 1987
Ph.D., University of Toronto, 1970
M.S., University of Wisconsin (Madison), 1967
B.Sc. (Honors), University of Ibadan, 1965

PROFESSIONAL/ACADEMIC APPOINTMENTS

Professor Emeritus, School of Public Health, University of Michigan, 20013 – present
Research Professor Emeritus, Center for Human Growth & Development, University of Michigan, 2013 - present
Director, Environmental Quality & Health Program, Department of Environmental Health Sciences, School of Public Health, University of Michigan; 2010 - 2013
Visiting Professor, Hung Kuang University, Taiwan, 2010
Director, Environmental Health Sciences Program, Department of Environmental and Industrial Health, School of Public Health, University of Michigan, Ann Arbor, 1996-2005
Professor, Department of Environmental Industrial Health, School of Public Health, University of Michigan, Ann Arbor, MI, 1993 - 2013
Research Professor, Center for Human Growth & Development, University of Michigan, Ann Arbor, MI, 1996-2013
Adjunct Professor, Department of Biology, University of Waterloo, Ontario, Canada, 2000 - 2005
Faculty Associate, Afro-American and African Studies, University of Michigan, 1996 – present
Research Scientist, Federal Canadian Department of the Environment, National Water Research Institute, Burlington, Ontario, 1972-1993
Adjunct Professor, Department of Earth Sciences, University of Waterloo, Waterloo, Ontario, Canada, 1985 – 1995.
Visiting Research Associate, Great Lakes Environmental Laboratory, NOAA, Ann Arbor, Michigan, 1992.
Visiting Professor, Dept. of Environmental & Industrial Health, School of Public Health, University of Michigan, Ann Arbor, 1992

HONORS AND AWARDS

One of most cited researchers in the field of Environment/Ecology (see <http://isihighlycited.com>)
 National Research Council of Canada, Predoctoral Fellowship, 1968-1970
 National Research Council of Canada, Postdoctoral Fellowship, 1970-1972
 Frank Rigler Medal, Canadian Society of Limnologists, 1988.
 Elected Fellow of the Royal Society of Canada, 1992.
 King/Chavez/Park Visiting Professorship, School of Public Health, University of Michigan, Ann Arbor, 1992
 Mirosław Romanowski Medal, Royal Society of Canada, 1999
 Recognized with a special session, “*Sources, Transport, Fate, and Toxicology of Trace Elements in the Environment: A Tribute to Jerome Nriagu*” at the 1999 Annual Meeting of the Geological Society of America, Denver, CO.
 Fulbright Senior Fellowship, University of the West Indies, Kingston, Jamaica, 2002
 Outstanding Research Award, School of Public Health, University of Michigan, 2004
 Distinguished Service Award, International Union of Geosciences, Commission on Geoscience for Environmental Management, 2005
 Alexander von Humboldt Distinguished Research Award, 2009
 Lifetime Achievement Award, International Conferences on Heavy Metals in the Environment (ICHMET), 2012
 Distinguished Alumni Award, University of Ibadan, March 2013
 Patron, Nigerian Academy of Environmental Health, 2013 – present
 HONORARY DOCTOR OF SCIENCE Degree, University of Alberta (Canada), June 2016

EDITORIAL BOARDS

- (1) Editor: *Advances in Environmental Science & Technology*, John Wiley & Sons, New York, 1983 - 2001
- (2) Editor: *Science of the Total Environment* (an international journal), Elsevier Science Publishers, Amsterdam., 1984 – 2001; **Editor-in-Chief**, 2001-2012
- (3) Founding Editor: *Topics in Environmental Health*, Elsevier Science Publishers, Amsterdam, 1978 -1987
- (4) Founding Editor: *Trace Metals in the Environment*, Elsevier Science Publishers, Amsterdam, 1991 – 2012
- (5) Associate Editor: (i) *Reclamation and Revegetation Research*, 1983-1986
 (ii) *Environmental Science Reviews*. 1992 - 2013
 (iii) *Environmental Research*, 1995 - 2013
- (6) Editorial Boards: *Chemical Geology*, 1978 - 1984
Tellus, 1984 - 1990
Geoscience Canada, 1979 - 1982
Biogeochemistry, 1988 - 1991
Handbooks of Environmental Chemistry, 1990 - 1993
Ciencia, 1993 - 1999
Aquatic Ecosystem Health & Management, 1998 – 2005
- (7). Founding Editor: *Global Health Perspectives (new journal)*, Maralte Publishers, Leiden, The Netherlands, 2012 - present

CONFERENCES AND WORKSHOPS (sample only)

Major Conferences Organized

Dahlem Conference on Metal Cycles and Human Health, West Berlin, 1983 (Chairman)
International Conferences on Heavy Metals in the Environment (Chairman of meetings in Toronto, 1993 and Ann Arbor, 2000; has been responsible for keeping these meetings going for the last 25 years)
Co-Director, NATO Advanced Research Workshop, Oslo, Norway, 1988
Strungmann Forum on Trace Metals and Infections, Frankfurt, German, 2014 (Co-Chairman)

Convocation Lecture: University of Ibadan, Nigeria, Nov. 19, 1987 (Sole Presenter)

COMMITTEES AND ADMINISTRATIVE SERVICES

Departmental

Executive Committee, 1996 - 1998
Curriculum Committee, 1993-94;
Admissions Committee 1994- 96; 2002-2004; 2006-2007; 2009-2011
Finance Committee, 2000-2002
Toxicology Faculty Search Committee, 1995
Exposure Assessment Faculty Search Committee, 1996; 2005-2006
Risk Assessment Faculty Search Committee, 2005-2006
Chair, Water Quality and Human Risk Faculty Search Committee, 2006-2007

School of Public Health

Research Council, 1994-98
Community-Based Public Health Committee, 1994-2010 (on and off)
 Funding Sub-committee, 1994-2006
Practice Advisory Council, 2011-2013

Other Schools and Centers

Executive Committee, Center for Human Growth & Development, 1998-2001
Fellowship Committee, Center for Afro-american & African Studies (CAAS), LS&A, 1997-99
African Initiatives Committee, CAAS, LS&A, 1998-99

University-wide

Great Lakes Studies Council, 1993-99
Grand Haven Center II Committee, 1996
VPR's Review Committee on South African Initiatives Program, 1998
Provost's Advisory Search Committee for Vice-President for Research, 1998-99
OVPR Advisory Council, 2000-2002
Advisory Committee, African Studies Center, 2010 - 2012

National and International

Science Advisory Board, US Environmental Protection Agency, Total Exposure Committee, 1995-2001
Board of Directors, Alliance to End Childhood Lead Poisoning, Washington, D.C., 1999-2002
Board of Directors, Ecology Center, Ann Arbor, MI, 2000-2006
Board of Directors, Center for Health, Environment and Safety, Ibadan, Nigeria, 2002-2012
Board of Directors, International Center for Environmental & Nuclear Sciences, Kingston, Jamaica, 2007-present
Board of Scientific Counselors, Agency for Toxic Substances and Disease Registry (ATSDR), 2002-2005
National Academy of Sciences Panel: Future Roles, Challenges and Opportunities for the US Geological Survey, 1998-2000
Council of Public Health Consultants, NSF International, Ann Arbor, MI, 1997-present
SCOPE Committee on Global Cadmium Pollution, 1997-98
Science Advisory Panel, Lake Victoria Environment Management Project (a \$78 million dollar project funded by the World Bank), 1997-2001
External Advisory Committee, Superfund Hazardous Substances Basic Research Program, Dartmouth College, Hanover, 1995-2000
Working Group on Geochemistry and Health and Disease, International Association of Geochemistry and Cosmochemistry, 1991-1993
Canadian Environmental Protection Act Project on Chromium and Its Compounds, 1992-1994
Objectives Evaluation Subcommittee of the Great Lakes Water Quality Board, 1988-1992
IUPAC Commission on Environmental Analytical Chemistry, 1989-1991
Hamilton-Wentworth Regional Task Force on Sustainable Development, 1991-1993
Scientific Committee, Environment Canada Research Incentives Grants, 1985-1991
Advisory Panel, United Nations University Scientific Programs for Training Centers at Minamata City (Japan), Ulm (Germany) and Toronto, (Canada), 1990-1993
SCOPE Committee on the Global Cycle of Sulfur, 1979-1981
Liaison Officer, University of Bordeaux/Environment Canada, Canada-France Scientific Exchange Program, 1984-1985
SCOPE Committee on Trace Metals, 1984-1988
Environmental Geochemistry Committee of the Geochemical Society, 1978-81.
National Academy of Sciences (USA) Panel on Lead in the Human Environment, 1978-80
National Research Council of Canada Sub-Committee on Trace Elements, 1980-1984
Canadian National Committee on SCOPE, 1982-85
Water Monitoring Data Review Committee, Government of Alberta, Canada, 2011

Community-based Public Health Activities

Board Member, Detroit Academic-Urban Research Center (URC), Detroit, Michigan, 1995 - 2013
Environmental Justice Committee, Arab Community Center for Economic & Social Services (ACCESS), Dearborn, MI, 1996-2001
Scientific Advisor, Flint/Genesee United for Action and Environmental Justice, 1994 - 1998
Scientific Advisor, Haile Community Association, Inc., Newberry, FL, 1996
Member, Community and Tribal Subcommittee, NCEH/ATSDR Board of Scientific Counselors, 2002-2005

TEACHING ACTIVITIES

Courses

Course Director, EIH 502, Environmental Health in Developing Countries, 2000-2013
Course Director, EIH 585, Food Contaminants, 1993-2003
Course Director, EIH 603/688, Topics in Environmental Health, 1995-1998
Course Director, EIH 574, Environmental Chemistry I, 1994-2013
Course Director, EIH 681, Environmental Chemistry II, 1996-1999
Course Director, EHS 591: Equity Issues in Environmental Health, 2001-2013
Course Director, EHS 615: Water Quality & Human Health in the Great Lakes Basin, 2010-2013

Training Programs

Lecturer, Summer School for Multidisciplinary Assessment of Environmental Risks for Human Health, University of Siena, Italy, 1989
Director, Training Course on Aquatic Environmental Chemistry, Federal University of Rio de Janeiro, Brazil, 1991
Director, Training Course on Environmental Chemistry, National University of Mar de Plata, Argentina, 1992
Director, Training Course on Environmental Health, University of Natal, Durban South Africa, July 1996
Co-Director, Training course on Environmental Health, Universities of Cape Town and Durban, July 1997
Co-Director, Training course on Environmental Chemistry and Health, University of Buenos Aires, Argentina, August 1997.

CONSULTANCY SERVICES

Royal Society of Canada
Atmospheric Environment Service, Downsview, Ontario
Ontario Ministry of the Environment
United Nations University, Tokyo, Japan
British Columbia Federation of Labor, Trail, B.C.
US Environmental Protection Agency
US Food and Drug Administration
US AID
Scientific Council on Problems of the Environment (SCOPE), Paris, France
United Nations Environmental Program, Nairobi, Kenya
North Atlantic Treaty Organization, Brussels
Department of Iron and Steel, Lagos, Nigeria
Elsevier Science Publishers, Amsterdam, The Netherlands
John Wiley & Sons, Inc., New York, NY
Green Peace
World Bank

Qatar Environmental & Energy Research Institute

Extracurricular Activities

Member, Rotary Club International

Trained Referee, Youth Soccer Matches

PUBLICATIONS

BOOKS (Authored or Edited)

1. LEAD AND LEAD POISONING IN ANTIQUITY, by J.O. Nriagu. Wiley & Sons, New York, 1983. 437 pp.
2. ENVIRONMENTAL BIOGEOCHEMISTRY (J.O. Nriagu, Editor). Ann Arbor Science Publishers, Ann Arbor, Michigan, 1976. Vol. 1, 423 pp., Vol. 2, 374 pp.
3. BIOGEOCHEMISTRY OF LEAD IN THE ENVIRONMENT (J.O. Nriagu, Editor). Elsevier Biomedical Press, Amsterdam, 1978. Vol. 1, 422 pp., Vol. 2, 379 pp.
4. SULFUR IN THE ENVIRONMENT (J.O. Nriagu, Editor). Wiley & Sons, New York, 1978. Vol. 1, 522 pp., Vol. 2, 489 pp.
5. COPPER IN THE ENVIRONMENT (J.O. Nriagu, Editor). Wiley & Sons, New York, 1979. Vol. 1, 522 pp., Vol. 2, 489 pp.
6. BIOGEOCHEMISTRY OF MERCURY IN THE ENVIRONMENT (J.O. Nriagu, Editor). Elsevier Biomedical Press, Amsterdam, 1979. 706 pp.
7. ZINC IN THE ENVIRONMENT (J.O. Nriagu, Editor). Wiley & Sons, New York, 1980. Vol. 1, 453 pp., Vol. 2, 480 pp.
8. NICKEL IN THE ENVIRONMENT (J.O. Nriagu, Editor). Wiley & Sons, New York, 1980. 833 pp.
9. CADMIUM IN THE ENVIRONMENT (J.O. Nriagu, Editor). Wiley & Sons, New York, 1980. Vol. 1, 682 pp., Vol. 2, 750 pp.
10. PHOSPHATE MINERALS (J.O. Nriagu & P.B. Moore, Editors). Springer-Verlag, Heidelberg, 1984. 445 pp.
11. AQUATIC TOXICOLOGY (J.O. Nriagu, Editor). Wiley & Sons, New York, 1983. 525 pp.

12. TOXIC CONTAMINANTS IN THE GREAT LAKES (J.O. Nriagu & M.S. Simmons, Editors). Wiley & Sons, New York, 1984. 527 pp.
13. ENVIRONMENTAL IMPACTS OF SMELTERS (J.O. Nriagu, Editor). Wiley & Sons, New York, 1984. 608 pp.
14. CHANGING METAL CYCLES AND HUMAN HEALTH (J.O. Nriagu, Editor). Springer-Verlag, Heidelberg, 1984. 445 pp.
15. CONTAMINANT EFFECTS ON FISH (V. Cairns, P.V. Hodson & J.O. Nriagu, Editors). Wiley & Sons, New York, 1984. 320 pp.
16. TOXIC METALS IN THE ATMOSPHERE (J.O. Nriagu & C.I. Davidson, Editors). Wiley & Sons, New York, 1986. 635 pp.
17. CADMIUM IN THE AQUATIC ENVIRONMENT (J.O. Nriagu & J. Sprague, Editors). Wiley & Sons, New York, 1987. 272 pp.
18. CHROMIUM IN THE NATURAL AND HUMAN ENVIRONMENT (J.O. Nriagu & E. Nieboer, Editors). Wiley & Sons, New York, 1988, 571 pp.
19. AQUATIC TOXICOLOGY AND WATER QUALITY MANAGEMENT (J.O. Nriagu & J.A.S. Lakshminarayana, Editors). Wiley & Sons, New York, 1989. 292 pp.
20. ENVIRONMENTAL SOURCES OF FOOD CONTAMINATION (J.O. Nriagu & M.S. Simmons, Editors). Wiley & Sons, New York, 1990. 650 pp.
21. GASEOUS POLLUTANTS: CHARACTERIZATION AND BEHAVIOR IN THE ENVIRONMENT (J.O. Nriagu, Editor), John Wiley & Sons, New York, 602 pp.
22. NICKEL AND HUMAN HEALTH: CURRENT PERSPECTIVES (E. Neiboer & J.O. Nriagu, Editors), John Wiley & Sons, New York, 1992, 680 pp.
23. HEAVY METALS IN THE ENVIRONMENT, IX (R.J. Allan and J.O. Nriagu, Editors), CEP Consultants, Edinburgh, 1993, Vol. 1. 457 pp., Vol. 2, 585 pp.
24. ARSENIC IN THE ENVIRONMENT (J.O. Nriagu, Editor), John Wiley & Sons, New York, 1994, Vol. 1, 430 pp., Vol. 2, 293 pp.
25. OXIDANTS IN THE ENVIRONMENT (J.O. Nriagu & M.S. Simmons, Editors), John Wiley & Sons, New York, 1994, 630 pp.
26. VANADIUM IN THE ENVIRONMENT (J.O. Nriagu, Editor), Wiley & Sons, New York, 1998, Vol. 1, 410pp.; Vol. 2, 360 pp.

27. THALLIUM IN THE ENVIRONMENT (J.O. Nriagu, Editor), Wiley & Sons, New York, 1998, 284 pp..
28. HEAVY METALS IN THE ENVIRONMENT (J.O. Nriagu, Editor), University of Michigan, Ann Arbor, CD-ROM, 2002
29. MINERAL COMPONENTS IN FOODS (P. Szefer & J.O. Nriagu, Editors), CRC Press, Boca Raton, FL, 2007, 466pp
30. ENCYCLOPEDIA OF ENVIRONMENTAL HEALTH (J.O. Nriagu, Editor-in-Chief), Elsevier, 2011; 5 volumes
31. HEAVY METALS IN THE ENVIRONMENT (J.O. Nriagu et al, Editors), Maraltes, Leiden, The Netherlands, 2012
32. TRACE METALS AND INFECTIOUS DISEASES (J.O. Nriagu & E. Skaar, Editors), MIT Press, 2015; 488 pp.

PEER-REVIEWED JOURNAL ARTICLES

33. Nriagu, J.O. (1968a). The distribution of iron in lake sediments. *Transactions of the Wisconsin Academy of Arts, Science & Letters*, 56: 153-164
34. Nriagu, J.O. (1968b). Sulfur metabolism and sedimentary environment: Lake Mendota, Wisconsin. *Limnology & Oceanography* 13: 430-439
35. Nriagu, J.O. and C.J. Bowser (1969). Magnetic spherules in sediments of Lake Mendota, Wisconsin. *Water Research*, 3: 833-842
36. Nriagu, J.O. and G.M. Anderson (1970). Calculated solubilities of some base metal sulfides in brine solutions. *Transactions of the Institute of Mining & Metallurgy (Applied Earth Sci. Section)*, 79: 207-212
37. Nriagu, J.O. and G.M. Anderson (1971). Stability of lead(II) chloride complexes at elevated temperatures. *Chemical Geology* 7: 171-183
38. Nriagu, J.O. (1971a). Experimental investigation of a portion of the system, PbS-NaCl-HCl-H₂O at elevated temperatures. *American Journal of Science* 271: 157-169.
39. Nriagu, J.O. (1971b). Expressions for calculating the solubilities of sulfide minerals in hydrothermal solutions. *Canadian Journal of Earth Sciences* 8: 813-819

40. Nriagu, J.O. (1971c). Studies in the system, PbS-NaCl-H₂S-H₂O: Stabilities of lead(II) thiocomplexes at 90°C. *Chemical Geology* 8: 299-310
41. Nriagu, J.O. (1972a). Solubility equilibrium constant of strengite. *American Journal of Science* 272: 476-484
42. Nriagu, J.O. (1972b). Solubility of vivianite and iron pair formation in the system Fe₃(PO)₄-H₃(PO)₄-H₂O. *Geochimica et Cosmochimica Acta* 36: 459-470
43. Nriagu, J.O. (1972c). Lead orthophosphates. I: Solubility and hydrolysis of secondary lead orthophosphate. *Inorganic Chemistry* 11: 2499-2503
44. Nriagu, J.O. (1973a). Lead orthophosphates. II: Stability of chloropyromorphite at 25°C. *Geochim. Cosmochim. Acta*, 37: 367-377
45. Nriagu, J.O. (1973b). Lead orthophosphates. III: Stabilities of fluoropyromorphite and bromopyromorphite. *Geochim. Cosmochim. Acta*, 37: 1735-1743
46. Nriagu, J.O. (1973c). Solubility equilibrium constant of hopeite. *Geochim. Cosmochim. Acta*, 37: 2357-2361
47. Nriagu, J.O. (1974a). Fractionation of sulfur isotopes by sediment adsorption of sulfate. *Earth & Planetary Science Letters* 22: 366-370
48. Nriagu, J.O. (1974b). Effects of pH and Eh on the dissolution of freshwater manganese nodules. *Earth Research* 2: 25-34
49. Nriagu, J.O. (1974c). Lead orthophosphates. IV: Formation and stability in the environment. *Geochim. Cosmochim. Acta*, 38: 887-898
50. Nriagu, J.O. and C.I. Dell (1974). Diagenetic formation of iron phosphates in recent sediments. *American Mineralogist* 59: 934-946
51. Nriagu, J.O. (1975a). Thermochemical approximations for clay minerals. *American Mineralogist* 60: 834-839
52. Nriagu, J.O. (1975b). Environmental biogeochemistry. *Geotimes*, 20: 16-17
53. Nriagu, J.O. (1976). Phosphate-clay mineral relations in soils and sediments. *Can. J. Earth Sci.*, 13: 717-736
54. Nriagu, J.O. and R.D. Coker (1976). Emission of sulfur from Lake Ontario sediments. *Limnol. Oceanogr.*, 21: 485-489

55. Pang, P.C. and J.O. Nriagu (1976). Distribution and isotopic composition of nitrogen in the Bay of Quinte (Lake Ontario) sediments. *Chem. Geol.*, 18: 93-105
56. Burns, N.M. and J.O. Nriagu (1976). Forms of iron and manganese in Lake Erie waters. *J. Fish. Res. Board Can.*, 33: 463-470
57. Pang, P.C. and J.O. Nriagu (1977). Isotopic variations of the nitrogen in Lake Superior. *Geochim. Cosmochim. Acta*, 41: 811-814
58. Nriagu, J.O. (1978). Dissolved silica in pore waters of Lakes Erie, Ontario and Superior. *Limnol. Oceanogr.*, 23: 53-67
59. Nriagu, J.O. and R.D. Coker (1978a). Isotopic composition of sulfur in precipitation within the Great Lakes basin. *Tellus*, 30: 365-375
60. Nriagu, J.O. and R.D. Coker (1978b). Isotopic composition of sulfur in atmospheric precipitation around Sudbury, Ontario. *Nature (London)*, 274: 883-885
61. Nriagu, J.O. and H.H. Harvey (1978). Isotopic variation as an index of sulfur pollution in lakes around Sudbury, Ontario. *Nature (London)*, 273: 223-224
62. Weiller, R.R. and J.O. Nriagu (1978). Isotopic composition of dissolved inorganic carbon in the Great Lakes. *J. Fish. Res. Board Can.*, 35: 422-430
63. Nriagu, J.O. (1979). Global inventory of natural and anthropogenic emissions of trace metals to the atmosphere. *Nature (London)*, 279: 409-411
64. Nriagu, J.O. and R.D. Coker (1979). Thiosulfate, polythionates and rhodanese activity in Lakes Erie and Ontario sediments. *Limnol. Oceanogr.*, 24: 383-389
65. Nriagu, J.O., Wong, H.K.T., Harper, N., and A.L.W. Kemp (1979). Sedimentary record of heavy metal pollution in Lake Erie. *Geochim. Cosmochim. Acta*, 43: 247-258
66. Nriagu, J.O. and R.D. Coker (1980). Trace metals in humic and fulvic acids from Lake Ontario sediments. *Environ. Sci. Technol.*, 14: 443-446
67. Williams, J.D.H., Mayer, T. and Nriagu (1980). Extractability of phosphorus from phosphate minerals common in soils and sediments. *Soil Soc. Amer. J.*, 44: 462-465
68. Nriagu, J.O., Wong, H.K.T. and R.D. Coker (1981). Particulate and dissolved trace metals in Lake Ontario. *Water Research*, 15: 91-96
69. Nriagu, J.O., Wong, H.K.T. and R.D. Coker (1982). Deposition and chemistry of particulate metals in lakes around the smelters at Sudbury, Ontario. *Environ. Sci. Technol.*, 16: 551-560

70. Nriagu, J.O. (1983a). Saturnine gout among the aristocrats of the Roman Empire. *New England Journal of Medicine* 308: 660-663
71. Nriagu, J.O. (1983b). Occupational exposure to lead in ancient times. *Sci. Total Environ.*, 29: 105-116
72. Nriagu, J.O. (1983c). Rapid decomposition of fish bones in the Great Lakes sediments. *Hydrobiologia*, 106: 217-222
73. Nriagu, J.O. (1983d). Arsenic in lakes around the smelters at Sudbury, Ontario. *Geochim. Cosmochim. Acta*, 47: 1523-1526
74. Nriagu, J.O. and H.K.T. Wong (1983). Selenium pollution of lakes around the smelters at Sudbury, Ontario. *Nature (London)*, 301: 55-57
75. Nriagu, J.O. and R.D. Coker (1983). Sulfur in sediments chronicles past changes in lake acidification. *Nature (London)*, 303: 692-694
76. Beszedits, S. and J.O. Nriagu (1983). Removal of cyanides from wastewaters. *Water & Pollut. Control Engr.*, 121(5): 24-34
77. Nriagu, J.O., Wong, H.K.T. and W.J. Snodgrass (1983). Historical records of metal pollution in Hamilton and Toronto Harbours. *J. Great Lakes Res.*, 9: 365-373
78. Rosa, F., Burns, N.M., Wong, H.K.T. and J.O. Nriagu (1983). Particulate metal flux at the bottom of Lake Ontario. *Chemosphere*, 12: 1345-1354
79. Nriagu, J.O. (1984c). Role of inland water sediments as sinks for anthropogenic sulfur. *Sci. Total Environ.*, 38: 7-13
80. Nriagu, J.O. and J.F. Gaillard (1984). Speciation of pollutant metals in lake waters near Sudbury, Ontario. *Adv. Environ. Sci. Technol.*, 15: 349-374
81. Nriagu, J.O. and Y.K. Soon (1984). Arylsulfatase activity in polluted lake sediments. *Environ. Pollut.*, 8B: 143-153
82. Wong, H.K.T. and J.O. Nriagu (1984). Particulate metal dynamics in lakes near the smelters at Sudbury, Ontario. *Trace Substanc. Environ. Health*, 18: 416-426
83. Wong, H.K.T., Nriagu, J.O. and R.D. Coker (1984). Atmospheric deposition of metals into lakes in the Algonquin Provincial Park, Ontario. *Chem. Geol.*, 44: 187-201
84. Rao, S.S., Jurkovic, A.A. and J.O. Nriagu (1984). Bacterial activity in sediments of lakes receiving acid precipitation. *Environ. Pollut.*, 36A: 195-205

85. Hodson, P.V., Whittle, D.M., Wong, P.T.S., Borgmann, U., Thomas, R.L., Chau, Y.K., Nriagu, J.O. and D.J. Hallett (1984). Lead and its potential effects on aquatic biota in the Great Lakes. *Adv. Environ. Sci. Technol.*, 14: 335-370
86. Nriagu, J.O. (1985). Cupellation - the oldest quantitative chemical technique. *J. Chem. Educ.*, 62: 668-674
87. Nriagu, J.O. and Y.K. Soon (1985). Distribution and isotopic composition of sulfur in lake sediments of northern Ontario. *Geochim. Cosmochim. Acta*, 49: 823-834
88. Carignan, R. and J.O. Nriagu (1985). Trace metal deposition and mobility in the sediments of two lakes near Sudbury, Ontario. *Geochim. Cosmochim. Acta*, 49: 1753-1764
89. Wong, H.K.T. and J.O. Nriagu (1985). Flux of pollutant metals into remote lakes at Algonquin Park, Ontario. *Trace Substanc. Environ. Health*, 19: 388-396
90. Nriagu, J.O. (1986a). Chemistry of River Niger, I. Major ions. *Sci. Total Environ.*, 58: 81-88
91. Nriagu, J.O. (1986b). Chemistry of River Niger, II. Trace metals. *Sci. Total Environ.*, 58: 89-92
92. Nriagu, J.O. and H.K.T. Wong (1986). What fraction of the total metal flux into lakes is retained in the sediments? *Water, Air & Soil Pollut.*, 31: 999-1006
93. Arafat, N. and J.O. Nriagu (1986). pH-induced release of metals from polluted lake sediments. *Water, Air & Soil Pollut.*, 31: 991-998
94. Nriagu, J.O. (1987a). Historical perspectives on chromium. *Adv. Environ. Sci. Technol.*, 20: 1-20
95. Nriagu, J.O. (1987b). Production and uses of chromium. *Adv. Environ. Sci. Technol.*, 20: 81-103
96. Nriagu, J.O. (1987c). Production, uses and properties of cadmium. *Adv Environ Sci Technol* 19: 36-70
97. Nriagu, J.O. (1987d). The global cadmium cycle. *Adv Environ Sci Technol* 19: 1-12
98. Nriagu, J.O. and C.I. Davidson (1987). Cadmium in the atmosphere and precipitation. *Adv Environ Sci Technol* 19: 71-114
99. Nriagu, J.O. and S.S. Rao (1987). Response of lake sediments to changes in trace metal emissions from the smelters at Sudbury, Ontario. *Environ. Pollut.*, **44**: 211-218

100. Nriagu, J.O., Holdway, D.A. and R.D. Coker (1987). Biogenic sulfur and the acidity of rainfall in remote areas of Canada. *Science*, 237: 1189-1192
101. Nriagu, J.O., Pacyna, J.M., Milford, J.B. and C.I. Davidson (1987). Distribution and characteristic features of chromium in the atmosphere. *Adv. Environ. Sci. Technol.*, 20: 125-172
102. Pacyna, J.M. and J.O. Nriagu (1987). Atmospheric emissions of chromium from natural and anthropogenic sources. *Adv. Environ. Sci. Technol.*, 20: 105-123
103. Nriagu, J.O. (1988). A silent epidemic of environmental metal poisoning? *Environ. Pollut.*, 50: 139-161
104. Nriagu, J.O. and J.M. Pacyna (1988). Quantitative assessment of worldwide contamination of the air, water and soils with trace metals. *Nature (London)*, 333 : 134-139
105. Holdway, D.A. and J.O. Nriagu (1988). A purge and trap gas chromatographic method for dimethyl sulfide in freshwater. *Internat. J. Environ. Anal. Chem.*, 32: 177-186
106. Nriagu, J.O. (1989). A global assessment of natural sources of atmospheric trace metals. *Nature (London)*, 338: 47-49
107. Nriagu, J.O. and D.A. Holdway (1989). Production and release of dimethyl sulfide from the Great Lakes. *Tellus*, 41B: 161-169
108. Rao, S.S., Burnison, K. and J.O. Nriagu (1989). Microbial studies of lake acidification— toxicological implications. *Arch. Hydrobiol.* 33: 273-284
109. Flegal, A.R., Nriagu, J.O., Niemeyer, S. and K.S. Coale (1989). Isotopic tracers of contaminant lead in the Great Lakes. *Nature (London)*, 339: 455-458
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