

CURRICULUM VITAE (Jerome Nriagu)

Personal Data

Name: Jerome Okon Nriagu
Place of birth: Ora-eri Town, Nigeria
Citizenship: US

Education

D.Sc. (meritorious), University of Ibadan, 1987
Ph.D., University of Toronto, 1967-1970
M.S., University of Wisconsin (Madison), 1965-1967
B.Sc. (Honors), University of Ibadan, 1962-1965

Professional/Academic Appointments

Director, Environmental Health Sciences Program (10 faculty members and over 100 graduate students), Department of Environmental and Industrial Health, School of Public Health, University of Michigan, Ann Arbor, 1996-2003
Professor, Department of Environmental Industrial Health, School of Public Health, University of Michigan, Ann Arbor, MI, 1993 - present
Research Professor, Center for Human Growth & Development, University of Michigan, Ann Arbor, MI, 1996-present
Visiting Professor, International Center for Environmental & Nuclear Sciences, University of the West Indies, Kingston, Jamaica, 2002
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 (left as Senior Research Scientist)
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 (top 1%) in the fields of Environment Studies and 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

Symposium Tribute to Jerome Nriagu by Environmental Geochemistry Division,
Geological Society of America, 1997 (drew over-flowing crowd)

Miroslaw Romanowski Medal, Royal Society of Canada, 1999

Fulbright Senior Fellowship, University of the West Indies, Kingston, Jamaica, 2002

Outstanding Scientist Award, School of Public Health, University of Michigan, 2004

Distinguished Service Award, International Union of Geosciences, Commission on
Geoscience for Environmental Management, 2005

Distinguished Humboldt Research Award, 2008

Editorial Boards

- (1) Editor-in-Chief: *Science of the Total Environment* (a leading international journal with 54 issues per year and over 6000 printed pages), Elsevier Science Publishers, Amsterdam., 2003 – present
- (2) Editor-in-Chief: *Encyclopedia of Environmental Health* (in 10 volumes), 2005 – present
- (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 - present
- (5) Editor: *Advances in Environmental Science & Technology*, John Wiley & Sons, New York, 1983 - 2001
- (6) Associate Editor: (i) *Reclamation and Revegetation Research*, 1983-1986
(ii) *Environmental Science Reviews*. 1992 - present
(iii) *Environmental Research*, 1995 - present
- (7) Editorial Boards: *Chemical Geology*, 1978 - 1984

Tellus, 1984 - 1990
Geoscience Canada, 1979 - 1982
Biogeochemistry, 1988 - 1991
Handbooks of Environmental Chemistry, 1990 - 1993
Ciencia, 1993 - 2005
Aquatic Ecosystem Health & Management, 1998 – present
Land Contamination and Reclamation, 2003 - present

Conferences and Workshops (sample only)

(1). Conference Chairman:

Dahlem Conference on Metal Cycles and Human Health, West Berlin, 1983
International Conference (9th) on Heavy Metals in the Environment, Toronto, 1993
International Conference (11th) on Heavy Metals in the Environment, Ann Arbor, 2000
NATO Research Conference, Oslo, Norway
Convocation Lecture: University of Ibadan, Nigeria, Nov. 19, 1987

Committees and Administrative Services

Departmental

Executive Committee, 1996 - 1998
Curriculum Committee, 1993-94; 2007-2009
Admissions Committee 1994- 96; 2002-2004; 2006-2007
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, 1994-2008
 Funding Sub-committee, 1994-2006
Global Health Faculty Advisory Committee, 2004 - present

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

OVPB Advisory Council, 2000-2002

Provost's Initiative on Center for African Studies, 2007-2008

National and International

Science Advisory Board, US Environmental Protection Agency, Washington, D.C., 1995-2001

Board of Directors, Alliance to End Childhood Lead Poisoning, Washington, D.C., 1999-2002

Board of Directors, The Lead Trust, Washington, D.C., 2002 – present (Treasurer, 2004-present)

Board of Directors, Ecology Center, Ann Arbor, MI, 2000-2006

Board of Scientific Counselors, Agency for Toxic Substances & Disease Registry/National Center for Environmental Health (ATSDR/NCEH), Atlanta, 2003-2005

Board of Directors, Center for Health, Environment and Safety, Ibadan, Nigeria, 2002-present

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 Authority, 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

Community-based Public Health Activities

Board Member, Detroit Academic-Urban Research Center (URC), Detroit, Michigan, 1995 - present
Environmental Justice Committee, Arab Community Center for Economic & Social Services (ACCESS), Dearborn, MI, 1996-present
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-
Course Director, EIH 585, Food Contaminants, 1993-
Course Director, EIH 603/688, Topics in Environmental Health, 1995-
Course Director, EIH 574, Environmental Chemistry I, 1994-
Course Director, EIH 681, Environmental Chemistry II, 1996-

Co-Director, NATO Advanced Research Workshop, Oslo, Norway, 1988
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.

Consultant

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

Extracurricular Activities

Rotary Club International (former member)

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
29. MINERAL COMPONENTS IN FOODS (P. Szefer & J.O. Nriagu, Editors), CRC Press, Boca Raton, FL, 2007, 466pp

OTHER PUBLICATIONS (Incomplete list)

28. Nriagu, J.O. (1968a). The distribution of iron in lake sediments. *Trans. Wisc. Acad. Arts, Sci. & Letts.*, 56: 153-164
29. Nriagu, J.O. (1968b). Sulfur metabolism and sedimentary environment: Lake Mendota, Wisconsin. *Limnol. Oceanogr.*, 13: 430-439
30. Nriagu, J.O. and C.J. Bowser (1969). Magnetic spherules in sediments of Lake Mendota, Wisconsin. *Water Research*, 3: 833-842
31. Nriagu, J.O. and G.M. Anderson (1970). Calculated solubilities of some base metal sulfides in brine solutions. *Trans. Instn. Min. Metall. (Applied Earth Sci. Section)*, 79: 207-212
32. Nriagu, J.O. and G.M. Anderson (1971). Stability of lead(II) chloride complexes at elevated temperatures. *Chem. Geol.*, 7: 171-183
33. Nriagu, J.O. (1971a). Experimental investigation of a portion of the system, PbS-NaCl-HCl-H₂O at elevated temperatures. *Amer. J. Sci.*, 271: 157-169.
34. Nriagu, J.O. (1971b). Expressions for calculating the solubilities of sulfide minerals in hydrothermal solutions. *Can. J. Earth Sci.*, 8: 813-819
35. Nriagu, J.O. (1971c). Studies in the system, PbS-NaCl-H₂S-H₂O: Stabilities of lead(II) thiocomplexes at 90°C. *Chem. Geol.*, 8: 299-310
36. Nriagu, J.O. (1972a). Solubility equilibrium constant of strengite. *Amer. J. Sci.*, 272: 476-484
37. Nriagu, J.O. (1972b). Solubility of vivianite and iron pair formation in the system Fe₃(PO)₄-H₃(PO)₄-H₂O. *Geochim. Cosmochim. Acta*, 36: 459-470
38. Nriagu, J.O. (1972c). Lead orthophosphates. I: Solubility and hydrolysis of secondary lead orthophosphate. *Inorg. Chem.*, 11: 2499-2503

39. Nriagu, J.O. (1973a). Lead orthophosphates. II: Stability of chloropyromorphite at 25°C. *Geochim. Cosmochim. Acta*, 37: 367-377
40. Nriagu, J.O. (1973b). Lead orthophosphates. III: Stabilities of fluoropyromorphite and bromopyromorphite. *Geochim. Cosmochim. Acta*, 37: 1735-1743
41. Nriagu, J.O. (1973c). Solubility equilibrium constant of hopeite. *Geochim. Cosmochim. Acta*, 37: 2357-2361
42. Nriagu, J.O. (1973d). Sulfur isotope abundance in the Great Lakes. *Proc. 16th Conf. Great Lakes Res.*, 1038-1042
43. Nriagu, J.O. (1974a). Fractionation of sulfur isotopes by sediment adsorption of sulfate. *Earth & Planet. Sci. Letts.*, 22: 366-370
44. Nriagu, J.O. (1974b). Effects of pH and Eh on the dissolution of freshwater manganese nodules. *Earth Res.*, 2: 25-34
45. Nriagu, J.O. (1974c). Lead orthophosphates. IV: Formation and stability in the environment. *Geochim. Cosmochim. Acta*, 38: 887-898
46. Nriagu, J.O. and C.I. Dell (1974). Diagenetic formation of iron phosphates in recent sediments. *Amer. Mineral.*, 59: 934-946
47. Nriagu, J.O. (1975a). Thermochemical approximations for clay minerals. *Amer. Mineral.*, 60: 834-839
48. Nriagu, J.O. (1975b). Environmental biogeochemistry. *Geotimes*, 20: 16-17
49. Nriagu, J.O. (1975c). Sulfur isotopic variation in relation to sulfur pollution of Lake Erie. In: *Isotope Ratios as Pollutant Source and Behavior Indicators*. Intl. Atomic Energy Agency, Vienna, pp. 77-93
50. Nriagu, J.O. (1976a). Phosphate-clay mineral relations in soils and sediments. *Can. J. Earth Sci.*, 13: 717-736
51. Nriagu, J.O. (1976b). Supergene formation of base metal phosphates. In: *Proc. Intl. Symp. on Water-Rock Interactions* (J. Cadec and T. Paces, Eds.), Geological Survey of Czechoslovakia, Prague, pp. 436-443

52. Nriagu, J.O. and P.T.S. Wong (1976). Fractionation of sulfur isotopes by algae. In: *Proc. 2nd Intl. Conf. on Stable Isotopes* (E.R. Klein and P.D. Kline, Eds.), Nat.Tech. Info. Service, U.S. Dept. of Commerce, Springfield, Virginia, pp. 734-738
53. Nriagu, J.O. and R.D. Coker (1976). Emission of sulfur from Lake Ontario sediments. *Limnol. Oceanogr.*, 21: 485-489
54. 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
55. 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
56. Pang, P.C. and J.O. Nriagu (1977). Isotopic variations of the nitrogen in Lake Superior. *Geochim. Cosmochim. Acta*, 41: 811-814
57. Nriagu, J.O. (1978a). Dissolved silica in pore waters of Lakes Erie, Ontario and Superior. *Limnol. Oceanogr.*, 23: 53-67
58. Nriagu, J.O. (1978b). Properties of lead and the biogeochemical lead cycle. In: *The Biogeochemistry of Lead in the Environment* (J.O. Nriagu, Ed.), Elsevier, Amsterdam, Vol. 1, pp. 1-14.
59. Nriagu, J.O. (1978c). Lead in the atmosphere. In: *Biogeochemistry of Lead in the Environment*, Vol. 1, pp. 137-184
60. Nriagu, J.O. (1978d). Lead in soils, sediments and principal rock types. In: *Biogeochemistry of Lead in the Environment*, Vol. 1, pp. 15-72.
61. Nriagu, J.O. (1978e). Production and uses of sulfur. In: *Sulfur in the Environment* (J.O. Nriagu, Ed.), Wiley, New York, Vol. 1, pp. 1-21
62. Nriagu, J.O. (1978f). Deteriorative effects of sulfur on materials. In: *Sulfur in the Environment*, Vol. 2, pp. 1-59
63. Nriagu, J.O. and R.D. Coker (1978a). Isotopic composition of sulfur in precipitation within the Great Lakes basin. *Tellus*, 30: 365-375
64. Nriagu, J.O. and R.D. Coker (1978b). Isotopic composition of sulfur in atmospheric precipitation around Sudbury, Ontario. *Nature (London)*, 274: 883-885

65. 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
66. 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
67. Nriagu, J.O. and J.D. Hem (1978). Chemistry of pollutant sulfur in natural waters. In: *Sulfur in the Environment*, Vol. 2, pp. 211-269
68. Rickard, D.T. and J.O. Nriagu (1978). Aqueous environmental chemistry of lead. In: *Biogeochemistry of Lead in the Environment*, Vol. 1, pp. 219-284
69. Posner, H.S., Damstra, T. and J.O. Nriagu (1978). Human health effects of lead. In: *Biogeochemistry of Lead in the Environment*, Vol. 2, pp. 173-223
70. Nriagu, J.O. (1979a). Global inventory of natural and anthropogenic emissions of trace metals to the atmosphere. *Nature (London)*, 279: 409-411
71. Nriagu, J.O. (1979b). Production and uses of mercury. In: *Biogeochemistry of Mercury in the Environment* (J.O. Nriagu, Ed.), Elsevier, Amsterdam, pp. 23-40
72. Nriagu, J.O. (1979c). The global copper cycle. In: *Copper in the Environment* (J.O. Nriagu, Ed.), Wiley, New York, Vol. 1, pp. 1-17
73. Nriagu, J.O. (1979d). Copper in the atmosphere and precipitation. In: *Copper in the Environment*, Vol. 1, pp. 43-75
74. Nriagu, J.O. and R.D. Coker (1979). Thiosulfate, polythionates and rhodanese activity in Lakes Erie and Ontario sediments. *Limnol. Oceanogr.*, 24: 383-389
75. Andren, A.W. and J.O. Nriagu (1979). The global cycle of mercury. In: *Biogeochemistry of Mercury in the Environment*, pp. 1-21
76. 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
77. Nriagu, J.O. (1980a). Production, uses and properties of cadmium. In: *Cadmium in the Environment* (J.O. Nriagu, Ed.), Wiley, New York, Vol. 1, pp. 36-70

78. Nriagu, J.O. (1980b). The global cadmium cycle. In: *Cadmium in the Environment*, Vol. 1, pp. 1-12
79. Nriagu, J.O. (1980c). Global cycle and properties of nickel. In: *Nickel in the Environment* (J.O. Nriagu, Ed.), Wiley, New York, pp. 1-26
80. Nriagu, J.O. (1980d). Human health risks from lead in ambient air. In: *Toxicity of Lead* (R.L. Singhal and J.A. Thomas, Eds.), Urban & Schwarzenberg, Baltimore, pp. 483-503
81. 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
82. Nriagu, J.O. and C.I. Davidson (1980a). Cadmium in the atmosphere and precipitation. In: *Cadmium in the Environment*, Vol. 1, pp. 71-114
83. Nriagu, J.O. and C.I. Davidson (1980b). Zinc in the atmosphere. In: *Zinc in the Environment*, Vol. 1, pp. 113-159
84. 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
85. 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
86. 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
87. Burton, A., Brock, T.D., Cook, P.J., Eugster, H.P., Goodwin, A.M., James, H.L., Margulis, L., Nielson, K.H., Nriagu, J.O., Trendall, A.F. and M.R. Walters (1982). Sedimentary iron deposits, evaporites and phosphorites. In: *Mineral Deposits and the Evolution of the Biosphere* (H.D. Holland and M. Schidlowski, Eds.), Springer-Verlag, Heidelberg, pp. 259-273
88. Nriagu, J.O. (1983a). Saturnine gout among the aristocrats of the Roman Empire. *New Engl. J. Med.*, 308: 660-663
89. Nriagu, J.O. (1983b). Occupational exposure to lead in ancient times. *Sci. Total Environ.*, 29: 105-116

90. Nriagu, J.O. (1983c). Rapid decomposition of fish bones in the Great Lakes sediments. *Hydrobiologia*, 106: 217-222
91. Nriagu, J.O. (1983d). Arsenic in lakes around the smelters at Sudbury, Ontario. *Geochim. Cosmochim. Acta*, 47: 1523-1526
92. Nriagu, J.O. (1983e). Did lead poisoning contribute to the decline of the Roman Empire? *Medical Post*, 19(16): 34
93. Nriagu, J.O. and H.K.T. Wong (1983). Selenium pollution of lakes around the smelters at Sudbury, Ontario. *Nature (London)*, 301: 55-57
94. Nriagu, J.O. and R.D. Coker (1983). Sulfur in sediments chronicles past changes in lake acidification. *Nature (London)*, 303: 692-694
95. Beszedits, S. and J.O. Nriagu (1983). Removal of cyanides from wastewaters. *Water & Pollut. Control Engr.*, 121(5): 24-34
96. 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
97. 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
98. Nriagu, J.O. (1984a). Phosphate minerals: their properties and general modes of occurrence. In: *Phosphate Minerals* (J.O. Nriagu and P.B. Moore, Eds.), Springer-Verlag, Heidelberg, pp. 1-136
99. Nriagu, J.O. (1984b). Formation and stability of heavy metal phosphates in soils and sediments. In: *Phosphate Minerals*, pp. 318-329
100. Nriagu, J.O. (1984c). Role of inland water sediments as sinks for anthropogenic sulfur. *Sci. Total Environ.*, 38: 7-13
101. Nriagu, J.O. (1984d). Particulate metal chemistry in lakes of northern Ontario. In: *Proc. Workshop on Paleolimnological Studies of the History and Effects of Acid Precipitation* (S.A. Norton, Ed.), Report of U.S. Environ. Protection Agency Project No. CR-811631-01-0, pp. 106-127

102. 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
103. Nriagu, J.O. and Y.K. Soon (1984). Arylsulfatase activity in polluted lake sediments. *Environ. Pollut.*, 8B: 143-153
104. 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
105. 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
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