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CITIZENSHIP: U.S.

**EDUCATION**

- 1984-1988    **Ph.D.**    University of Arizona                      Geosciences/Hydrology  
*Dissertation: Chemical Equilibria and Fluid Flow during Compaction  
Diagenesis of Organic-Rich Geopressured Sediments,*  
Advisor: Dr. Denis Norton.
- 1974-1977    **M.S.**        University of Arizona                      Geosciences  
*Thesis: Chemical Mass Transfer and Solution Flow in Wyoming Roll-Type  
Uranium Deposits,*  
Advisor: Dr. Denis Norton.
- 1970-1974    **B.S.**        State University of New York, Brockport    Geology/Math cum laude

**PROFESSIONAL EXPERIENCE**

- 2007-present    Associate Professor    University of Houston, Department of Geosciences, Houston, Texas  
and Faculty Advisor    (Faculty Advisor Environmental Sciences)
- 1996-2007    Associate Professor    University of Houston, Department of Geosciences, Houston, Texas
- 1989-1996    Assistant Professor    University of Houston, Department of Geosciences, Houston, Texas
- 1989-2000    Faculty Associate    Environmental Engineering Program, University of Houston
- 1987-1989    Principle Investigator -  
Research Associate    University of Texas at Austin, Bureau of Economic Geology, Austin,  
Texas
- 1984-1986    SOHIO Research Associate    University of Arizona, Department of Geosciences, Tucson, Arizona
- 1983-1984    Project Manager -  
Geochemist            University of Utah Research Institute, Earth Science Laboratory, Salt  
Lake City, Utah
- 1981-1983    Geochemist            University of Utah Research Institute
- 1978-1981    Associate Geologist    University of Utah Research Institute
- 1975-1977    Research/Teaching Assistant    University of Arizona, Department of Geosciences, Tucson, Arizona
- 1975 summer    Geologic Assistant    Cities Service Minerals Company, Tucson, Arizona
- 1971-1972    Teaching Assistant    Chemistry Department, University of New York, Brockport, Brockport,  
New York

**BOARD MEMBER:** American Institute of Professional Geologists (AIPG) Texas Section, Executive Committee, Councilor-at-Large 2017- present

**PROFESSIONAL LICENSURE:**

- Professional Geoscientist - license number 452 - Texas Board of Professional Geoscientists –  
2003 to present
- Certified Professional Geologist (CPG) – American Institute of Professional Geologist (AIPG) –  
2017 to present

**FACULTY ADVISOR:**

Environmental Sciences B.S. - 2007 to present (90-100 majors)  
American Institute of Professional Geologist (AIPG) founder and faculty advisor UH- AIPG  
Student Chapter of the AIPG – 2018 to present.  
Association of Environmental and Engineering Geoscientists (AEG) founder and faculty advisor  
UH-AEG Student Chapter -2013 to present.  
Student Research Conference, University of Houston - 2012 to 2020.  
Graduate Student Committee, University of Houston – 2013 to 2020

**FACULTY SENATE, University of Houston: 2016 to present.**

UH Senate Budget and Facilities Committee – 2016 to 2017  
UH Senate Faculty Affairs Committee – 2017 to present.  
Founder and Co-Chair: UH Senate Travel Committee – 2022 to present

**AWARDS**

Society for Sedimentary Geology (SEPM) Presidents Choice Student Award Poster, 2003,  
Evidence of compartmentalization from a coupled study on brine chemistry and  
stratigraphy in and around the South Liberty Salt Dome, Texas. T. Banga, R. Capuano  
and D. Van Nieuwenhuise. (I was T Banga's major advisor)  
Houston Geological Society - Best Student Poster, 2002-2003, Houston Geological Society, Structural  
and Stratigraphic Constraints on the Chemistry and Sources of fluids around South Liberty Salt  
Dome. T. Banga, R. Capuano, and D. Van Nieuwenhuise. (I was T Banga's major advisor)  
Houston Geological Society - Best Student Poster, 2001 – 2002, Houston Geological Society, Brine  
Source Migration and Cap-Rock Dissolution in the Vicinity of the South Liberty Salt Dome,  
Texas Gulf Coast. T. Banga and R. Capuano. (I was T. Banga's major advisor)

**EDITORIAL REVIEW BOARD:** Ground Water Monitoring and Remediation, 1998 – 2005

**ADVISORY BOARD**

American Institute of Professional Geologists (Texas Section) 2017 - present  
University of Arizona, Department of Geosciences, 1999 - 2017  
Environmental Institute of Houston, 1997 – 2003

**SYMPOSIUM ORGANIZER AND CHAIR:** "Hydrogeologic Controls on Contaminant Transport",  
Geological Society of America South-Central Section meeting, 1992.

**NATIONAL PANEL:**

U.S. DOE, Office of Basic Research, 1993. Invited member of the review panel for Geochemical  
Transport Research of the Geosciences Research Program.  
U.S. DOE and Los Alamos National Laboratory Workshop on Fundamental Geochemistry needs for  
Nuclear Waste Isolation, 1984. Invited member of the Modeling Committee, Report CONF-  
8406134—DE86 005835 Issued Sept 1985, [http://www.osti.gov/bridge/servlets/purl/6283889-  
2voBtJ/6283889.PDF](http://www.osti.gov/bridge/servlets/purl/6283889-2voBtJ/6283889.PDF)

**Member Center for Innovative Grouting Materials and Technology**, University of Houston 1994-2014

**Penrose Conference invited speaker:** Penrose Conference on Nuclear Waste Analogies, 1984,

"Hydrothermal Systems - Analogies to Nuclear Waste Repositories"

**American Chemical Society - Gordon Research Conference invited speaker:** 1993, "Geochemical  
evidence of fluid flow in geopressured sediments"

**Professional Societies-committees-** The Geochemical Society - Auditing Committee 1996-1997

**Fellowships**

Sohio Petroleum Company, Research Fellowship, 1984-1986  
Wyoming Minerals Corporation of Westinghouse, Research Fellowship, 1976-1977

**Teaching Activities:** Developed undergraduate and graduate courses in Hydrogeology, Geochemistry,  
Environmental Geochemistry, Hydrochemistry, Advanced Hydrogeology, Water in the  
Environment, Geochemistry of Water-Rock Systems, Modeling Fluid-Mineral Reactions,  
Geochemical Reaction Modeling, Simulation of Ground-Water Flow and Transport, and Physical

Geology

**Book Reviewer**

Applied Hydrogeology, 3rd ed., by C.W. Fetter, Merrill Publishers

Memoir on Pressure Compartments: American Association of Petroleum Geologists

Hydrogeology Laboratory Manual, by Keenan Lee, Macmillan Publishing Company

**Other Recognition**

**Annual Research Highlights and Trends in the Study of Clays**, Geotimes (February 1993, page 33) featured review of my article Capuano, 1992 (Geochimica et Cosmochimica ACTA).

**Clays and Stuff** (December 1993, page 2) summarized my journal article Capuano, 1993 (Am. Assoc. Pet. Geol.).

**New Waves** (1995, v8, no8 page 2) included article about journal paper Mills and Capuano (1995, Proc. 24th Water for Texas Conf.) <http://twri.tamu.edu/newsletters/NewWaves/nw-v8n2.pdf>

**New Waves** (1990, v3, no3, page 3) included summary of my report Capuano and Kreitler (1989, US-EPA CR8144056010) <http://twri.tamu.edu/newsletters/NewWaves/nw-v3n3.pdf>

**Waste Treatment Technology News** (1990, v5, n6, page 1) feature article on my research on waste degradation.

**SCHOLARSHIPS, FELLOWSHIPS**

Sohio Petroleum Company, Research Fellowship, 1984-1986

Wyoming Minerals Corporation of Westinghouse, Research Fellowship, 1976-1977

University of Arizona Graduate Tuition Scholarship, 1974-1975

N. Y. State Regents Incentive Award, 1970-1974

**DISSERTATIONS AND THESES SUPERVISED**

- Jan, Rezie Zaheer. 1994. *Hydrodynamic controls on contaminant transport in shallow low permeability sediments of the Beaumont formation*. Thesis (M.S.) University of Houston.
- Hinks, Alan William. 1995. *Spatial and temporal variations in the hydrogeology and hydrochemistry of a section of the Beaumont clay, Galveston county, Texas*. Thesis (M.S.) University of Houston.
- Zou, Ze-Yuan. 1995. *Infiltration of dye tracers and nutrients into the vadose zone of the upper Pleistocene Beaumont formation*. Thesis (M.S.) University of Houston.
- Mills, Steven D. 1996. *Ground-water recharge through clay-rich sediments at the University of Houston Coastal Center*. Thesis (M.S.) University of Houston.
- Ray, Jayanta. 1996. *Comparative study of the deuterium signatures of geopressed and nongeopressed clays from Brazoria county, Texas*. Thesis (M.S.) University of Houston,
- Bourgeois, Fay M. 1997. *Elemental and stable isotope study to determine the source of salt-water contamination in the Chicot aquifer of the Gulf Coast Aquifer System*. Thesis (M.S.) University of Houston.
- Gell, Christianne Michelle. 1999. *Evaluating fluid flow around the Danbury Salt Dome, Brazoria County, Texas: an elemental and stable isotope study*. Thesis (M.S.) University of Houston.
- Hyeong, Kiseong. 2000. *Evidence of fluid expulsion from the geopressed sediment of the U.S. Gulf Coast*. Dissertation (Ph. D.) University of Houston.

- Banga, Tathagata. 2003. *Tracing salt dissolution, fluid sources and mixing in the vicinity of the South Liberty salt dome in the South-East Texas Gulf Coast*. Thesis (M.S.) University of Houston.
- Guo, Hao. 2004. *Geochemical investigation of the origin of Frio-reservoired oils from Southeast Texas basin*. Thesis (M.S.) University of Houston.
- Banga, Tathagata (Tat). 2006. *Fluid-flow perturbations in the vicinity of the South Liberty salt dome, Southeast Texas Gulf Coast*. Dissertation (Ph. D.) University of Houston.
- Chakraborty, Arindam. 2007.  *$\delta^{13}\text{C}$  dating of the Chicot Aquifer water, Texas Gulf Coast, evaluation of a  $\delta^{13}\text{C}$  correction for carbon sources other than from calcite reactions*. Thesis (M.S.) University of Houston.
- Lindsay, Steve, 2009, *Sources of Saline Water Contamination in the Chicot/Evangeline Aquifer of Brazoria, Fort Bend, and Wharton Counties, Using Multi-element Hydrochemical Analyses*. Thesis (M.S.) University of Houston, 214p.
- Francis, Luke, 2012, *Tracing the Source of Shallow-Water Contamination near a Leaky Fault System, Green River Utah*, Thesis (M.S.) University of Houston.
- Chroback, Marcus Alan, 2013, *Hydrocarbon potential of the antrim shale along the southern margin of the Michigan Basin*, Thesis (M.S.) (co-advisor with D. Van Nieuwenhuise) University of Houston.
- Surek, Melahat Asli, 2013, *Cluster analysis of the Balakhany VIII Reservoir Unit with spectral gamma ray logs Azeri-Chirag-Gunashli field, offshore Azerbaijan*, Thesis (MS) (co-advisor with D. Van Nieuwenhuise) University of Houston.
- McConnell , Allison, 2013, *Geochemical investigation of the origin of hydrocarbon occurrences in up-dip Wilcox Group reservoirs at Raccoon Bend field, southeast Texas Gulf Coast basin*, Thesis (M.S.)– University of Houston.
- Liu, Yu, 2014, *Source and maturation of hydrocarbons in the Frio Formation of the Humble Field, Southeast Texas Gulf Coast basin*, Thesis (M.S.) University of Houston.
- Zhou, Qishan, 2015, *Source of hydrocarbons in the Blue Ridge Oil Field, Fort Bend County, southeast Texas Gulf Coast*, Thesis (M.S.) University of Houston.
- Bradshaw, Christian, 2017, *Southeast Texas oil to source-rock correlation inside the Houston Embayment, Texas Gulf Coast*, Thesis (M.S.) University of Houston.
- Teske, John, 2020, *Source and migration of oil reservoired in the Wilcox Group of the Southeast Texas Gulf Coast*, Thesis (M.S.) University of Houston.
- Jones, Cole R., 2022, *Clay-cation compositions from groundwater chemistry as an indicator of depositional environments, paleoclimates, and paleo-groundwater flow*, Dissertation (Ph.D.) University of Houston, 180p.

**ORCID ID:** <https://orcid.org/0000-0002-5900-5127>

**PUBLICATIONS (\*student research for which I was the major advisor)**

- Jones\*, C.R. and Capuano, R.M., 2023 Fluvial and marine depositional environments determined from groundwater chemistry and calculated clay-cation compositions. *Geochemistry, Geophysics, Geosystems*, 24, e2022GC010601. <https://doi.org/10.1029/2022GC010601>
- Capuano, R. and Jones\*, C., 2022, Clay-cation composition of river sediments as evidence of wet versus dry paleoclimate. *Applied Geochemistry*, 146, article 105421. <https://doi.org/10.1016/j.apgeochem.2022.105421>
- Capuano, R.M., and Jones\*, C.R., 2020, Cation exchange in groundwater-chemical evolution and prediction of paleo-groundwater flow: a natural-system study. *Water Resources Research*, 56, e2019WR026318. <https://doi.org/10.1029/2019WR026318>
- Banga\*, T., Capuano, R.M. and Bissada, K.K., 2011, Petroleum generation in the southeast Texas basin: Implications for hydrocarbon occurrence at the South Liberty salt dome. *American Association of Petroleum Geologists Bulletin*, v95, p1257-1291. [doi.org/10.1306/11051007036](https://doi.org/10.1306/11051007036)
- Hyeong\*, K., and Capuano, R.M., 2004, Hydrogen isotope fractionation factor for mixed layer illite/smectite 60° to 150°C, new data from the northeast Texas Gulf Coast. *Geochimica Cosmochimica Acta*, v68, p1529-1543. [doi.org/10.1016/j.gca.2003.10.002](https://doi.org/10.1016/j.gca.2003.10.002)
- Capuano, R.M., and Lindsay\*, S.V., 2004, Chicot/Evangeline aquifer of the Texas Gulf Coast, groundwater age and pathways for salt-water contamination, in Environmental Institute of Houston, 2004 Annual Report p 4-5, <http://prtl.uhcl.edu/portal/page/portal/EIH/archives/INCLUDES/ar2004.pdf>
- Capuano, R.M., and Lindsay\*, S.V., 2003, Chicot/Evangeline aquifer of the Texas Gulf Coast, groundwater age and pathways for salt-water contamination, in Environmental Institute of Houston, 2003 Annual Report p 22-24, <http://www.eih.uh.edu/publications/03annrep/capuano.htm>.
- Banga\*, T., Capuano, R.M., van Nieuwenhuise, D.S., 2002, Fluid flow, stratigraphy and structure in the vicinity of the South Liberty Salt Dome, Texas, *Gulf Coast Association of Geological Society Transactions*, v52, p25-36.
- Hyeong\*, K. and Capuano, R.M., 2001, Ca/Mg of brines in Miocene/Oligocene clastic sediments of the Texas Gulf Coast: Buffering by calcite/disordered dolomite equilibria: *Geochimica et Cosmochimica Acta*, v.65, 3065-3080. [doi:10.1016/S0016-7037\(01\)00659-7](https://doi.org/10.1016/S0016-7037(01)00659-7)
- Hyeong\*, K. and Capuano, R.M., 2000, The effect of organic matter on the  $\delta D$  of clay minerals, *Geochimica Cosmochimica Acta*, v. 64, p. 3829-3837. [doi:10.1016/S0016-7037\(00\)00438-5](https://doi.org/10.1016/S0016-7037(00)00438-5)
- Capuano, R.M. and Jan\*, R.Z., 1997, In-situ hydraulic conductivity of clay and silty-clay fluvial deltaic sediments: discussion and reply, *Ground Water*, v35, no1, p2-3.
- Capuano, R.M., and Jan\*, R.Z., 1996, In-situ hydraulic conductivity of clay and silty-clay fluvial-deltaic sediments: *Ground Water*, v34, no3, p545-551. <https://doi.org/10.1111/j.1745-6584.1996.tb02036.x>
- Capuano, R.M., Siringan, M.A., Jan\*, R.Z., and Jurtschuk, P. Jr., 1996, Enhanced activity of oligotrophic endogenous bacteria in clay-rich sediments by nutrient injection: *Geomicrobiology Journal*, v13, p165-179. <https://doi.org/10.1080/01490459509378015>
- Capuano, R.M., and Johnson, M., 1996, Geochemical reactions during biodegradation/vapor-extraction remediation of petroleum contamination in the vadose zone: *Ground Water*, v34, p31-40. <https://doi.org/10.1111/j.1745-6584.1996.tb01862.x>
- Hinks\*, A.W., and Capuano, R.M., 1995, Spatial and temporal variations in the hydrogeologic properties of the Upper Beaumont Clay: In. R. Jensen ed., *Proceedings of the 24th Water for Texas Conference*: Texas Water Development Board, p147-156.
- Mills\*, S.D., and Capuano, R.M., 1995, Infiltration of rainwater through clay-rich soil of the Beaumont Formation, Galveston County, Texas: In. R. Jensen ed., *Proceedings of the 24th Water for Texas Conference*: Texas Water Development Board, p161-170.
- Capuano, R.M., Jan, R., Siringan, M.A., and Jurtschuk, P., 1994, Bioremediation in shallow clay-silt sediments induced by nutrient injection: Resulting geochemical and microbiological reactions:

- Waste Management, v14, p344-345. [https://ac.els-cdn.com/0956053X9490104X/1-s2.0-0956053X9490104X-main.pdf?\\_tid=7c80659c-d892-4ee1-8575-1c7b7f9d98fa&acdnat=1521666918\\_830dd4337433a924f23e1027fc69dc90](https://ac.els-cdn.com/0956053X9490104X/1-s2.0-0956053X9490104X-main.pdf?_tid=7c80659c-d892-4ee1-8575-1c7b7f9d98fa&acdnat=1521666918_830dd4337433a924f23e1027fc69dc90)
- Capuano, R.M., 1994, Evidence of fluid flow in microfractures in geopressured shales: *Reply: American Association of Petroleum Geologists Bulletin*, v78, p1641-1646.
- Capuano, R.M., 1993, Evidence of fluid flow in microfractures in geopressured shales: *American Association of Petroleum Geologists Bulletin*, v77, p1303-1314.
- Capuano, R.M., Jan, R., Siringan, M.A., Jurtshuk, P., De Vine, C. and Liehr, S., 1993, An injection study of aquifer bioremediation: *Waste Management*, v13, p517-518. DOI 10.1016/0956-053X(93)90091-A, [https://ac.els-cdn.com/0956053X9390091A/1-s2.0-0956053X9390091A-main.pdf?\\_tid=6cd56635-9956-4e77-9a7b-d4fd3dc2656a&acdnat=1521666212\\_ce598679f424c43343d5ebc98838e7e2](https://ac.els-cdn.com/0956053X9390091A/1-s2.0-0956053X9390091A-main.pdf?_tid=6cd56635-9956-4e77-9a7b-d4fd3dc2656a&acdnat=1521666212_ce598679f424c43343d5ebc98838e7e2)
- Capuano, R.M., 1992, The temperature dependence of hydrogen isotope fractionation between clay minerals and water, evidence from a geopressured system: *Geochimica et Cosmochimica Acta*, v56, p2547-2554. [doi:10.1016/0016-7037\(92\)90208-Z](https://doi.org/10.1016/0016-7037(92)90208-Z)
- Capuano, R.M., 1990, Hydrochemical constraints on fluid-mineral equilibria during compaction diagenesis of kerogen-rich geopressured sediments: *Geochimica et Cosmochimica Acta*, v54, p1283-1299. [doi:10.1016/0016-7037\(90\)90153-C](https://doi.org/10.1016/0016-7037(90)90153-C)
- Kreitler, C.W., Capuano, R.M., Akhter, M.S., Hamlin, H.S., Erwin, M.E., and Walter, T.G., 1990, Consolidation of Geologic Studies of Geopressured-Geothermal Resources in Texas: *U.S. Department of Energy, Advanced Technology Division, DOE-FC07-85NV10412*, 185p. <https://www.beg.utexas.edu/files/publications/contract-reports/CR1990-Kreitler-1.pdf>
- Capuano, R.M., 1990, Subsurface degradation of wastes disposed. *Bulletin Houston Geological Society* v32, p 14-15.
- Capuano, R.M., and Kreitler, C.W., 1989, Chemical controls on subsurface degradation of wastes disposed of by deep well injection: *Proceedings of the International Symposium on Class I & II Injection Well Technology*, May 8-11, 1989; Underground Injection Practices Council, Oklahoma City, Oklahoma, p345-355.
- Capuano, R. M., and Erwin, M. E., 1990, Hydrochemical studies for long-term-flow testing of Pleasant Bayou Geopressured Geothermal Well No. 2, in Kreitler, C. W., Capuano, R. M., Akhter, M. S., Hamlin, H. S., Erwin, M. E., and Walter, T. G., Consolidation of geologic studies of geopressured geothermal resources in Texas: The University of Texas at Austin, Bureau of Economic Geology, 1989 annual report prepared for the U.S. Department of Energy, Advanced Technologies Division, under contract no. DE-FC07-85NV10412, p. 89.
- Kreitler, C. W., Capuano, R. M., Akhter, M. S., Hamlin, H. S., Erwin, M. E., and Walter, T. G., 1990, Consolidation of geologic studies of geopressured geothermal resources in Texas: The University of Texas at Austin, Bureau of Economic Geology, 1989 annual report prepared for the U.S. Department of Energy, Advanced Technologies Division, under contract no. DE-FC07-85NV10412, p. 89.
- Capuano, R.M., and Kreitler, C.W., 1989, Deep well injection: chemical waste disposed and their subsurface reactions: University of Texas at Austin, Bureau of Economic Geology, *U.S. Environmental Protection Agency, Office of Drinking Water, CR-8144056-01-0*, 169p.
- Runnels, D.D., Kerrisk, J.F., Wangen, L., Bowers, T., Capuano, R., Isherwood, D., Jenne, E.A., Lerman, A., Pearson, F.J., Plummer, L.N., Travis, B.J., Valocchi, A.J. and Wolery, T.J., 1985, Modeling: In. B.R. Erdal, ed., Workshop on Fundamental Geochemistry Needs for Nuclear Waste Isolation, Los Alamos, NM, Jun 20-21, 1984, *U.S. Department of Energy and U.S. Nuclear Regulatory Commission*, CONF-8406134, DE86005835 <https://www.osti.gov/scitech/servlets/purl/6283889>
- Wright, P.M., Capuano, R.M., Adams, M., and Moore, J.N., 1984, Uses of geochemistry with injection-backflow testing in geothermal reservoir studies: *Geothermal Resources Council, Trans.*, v8, p349-354.

- Sibbett, B.S., and Capuano, R.M., 1984, Potential for a low-temperature geothermal resource near Mackay Idaho: *U.S. Department of Energy*, DOE-ID-12079-120, UURI-ESL 137, 12p.
- Adams, M., Capuano, R.G., Wright, M., Clemo, T.M., Hull, L.C., 1984, Hydrothermal Injection Research Program, Annual Progress Report, FY 1984, *U.S. Department of Energy*, DOE-ID-10123, Contract AC07-76ID01570, NTIS:DE85004905, 110p.
- Capuano, R.M., Adams, M.C., and Wright, P.M., 1983, Tracer recovery and mixing from two geothermal injection-backflow studies: *Ninth Workshop on Geothermal Reservoir Engineering*, Stanford, p299-304.
- Christensen, O.D., Capuano, R.A., and Moore, J.N., 1983, Trace element zoning in the Roosevelt Hot Springs Thermal Area, Utah: *Journal of Volcanology and Geothermal Research*, v16, p99-129. [doi:10.1016/0377-0273\(83\)90086-0](https://doi.org/10.1016/0377-0273(83)90086-0)
- Struhsacker, E.M., Smith, C., and Capuano, R.M., 1983, An evaluation of exploration methods for low-temperature geothermal systems in the Artesian City area, Twin Falls and Cassia Counties, Idaho: *Geological Society of America Bulletin*, v94, p58-79. [https://doi.org/10.1130/0016-7606\(1983\)94<58:AEOEMF>2.0.CO;2](https://doi.org/10.1130/0016-7606(1983)94<58:AEOEMF>2.0.CO;2)
- Thussu, J.L., Moore, J.N., and Capuano, R.M., 1983, Preliminary geothermal assessment of the Tattapani thermal area, Madhya Pradesh, India: *Geothermal Resources Council*, Trans., v7, 6p. chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/https://publications.mygeoenergynow.org/grc/1001088.pdf
- Apps, J.A., and Capuano, R.M., 1983, Solid-liquid equilibria, in P.M. Wright, ed., *In Situ Leaching and Solution Mining--State of the Art and Recommended Research: University of Utah Research Institute*, ESL-85031-TR.
- Blackett, R.E., Capuano, R.M., Kolesar, P.T., Sill, W.R., Allman, D.W., Downs, W.F., Hull, L.C., Koslow, K.N., Large, R.M., McAtee, R.E., Miller, J.D., Russell, B.F., and Skiba, P.A., 1983, Hydrothermal Injection Research Program Annual Progress Report FY-1983: *U.S. Department of Energy*, DOE-ID-10117, Cat. UC-66a <http://www.osti.gov/bridge/servlets/purl/5377802-1kjQQ8/5377802.PDF>
- Capuano, R.M., and Cole, D. R., 1982, Fluid-mineral equilibria in a hydrothermal system, Roosevelt Hot Springs, Utah: *Geochimica et Cosmochimica Acta*, v46, p1353-1364. [doi:10.1016/0016-7037\(82\)90271-X](https://doi.org/10.1016/0016-7037(82)90271-X)
- Adams, M.C., and Capuano, R.M., 1982, Evaluation of the geothermal reservoir associated with Auburn and Johnson Hot Springs, Upper Star Valley, Wyoming: *Geothermal Resources Council*, Trans., v6, p73-76. chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/https://publications.mygeoenergynow.org/grc/1000920.pdf
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- Capuano, R.M., 1981, Water chemistry as an aid in reconnaissance exploration for a low-temperature geothermal system, Artesian City Area, Idaho: *Geothermal Resources Council*, Trans., v5, p59-62. chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/https://publications.mygeoenergynow.org/grc/1000734.pdf
- Buma, G., Johnson, P., Bienek, G., Watson, G., Noyes, H., and Capuano, R., 1981, Analysis of Ground Water Criteria and Recent Restoration Attempts after In-Situ Uranium Leaching: *U. S. Bureau of Mines*, Open-File Report 90-82.
- Christensen, O.D., Moore, J.N., and Capuano, R.M., 1980, Trace element geochemical zoning in the Roosevelt Hot Springs thermal area, Utah: *Geothermal Resources Council*, Trans., v4, p149-152.
- Christensen, O.D., Kroneman, R.L., and Capuano, R.M., 1980, Multielement analysis of Geologic Materials by Inductively Coupled Plasma-Atomic Emission Spectroscopy: *U.S. Department of*

- Energy*, DOE-ID-12079-2, UURI-ESL32, 33p. <https://doi.org/10.2172/5139438>
- Glenn, W.E., Chapman, D.S., Foley, D., Capuano, R.M., Sibbett, B.S., Cole, D., and Ward, S.H., 1980, Geothermal Exploration at Hill Air force Base, Ogden, Utah: *U.S. Department of Energy*, DOE-ET-28392-42, UURI-ESL34, 77p. <https://doi.org/10.2172/5231737>
- Bamford, R.W., Christensen, O.D., and Capuano, R.M., 1980, Multielement Geochemistry of Solid Materials in Geothermal Systems and Its Application, Part I: The Hot Water System at Roosevelt Hot Springs KGRA Utah: *U.S. Department of Energy*, DOE-ET-27002-7, UURI-ESL30, 168p. DOI: 10.2172/5197458 <https://www.osti.gov/biblio/5197458-vSiuoQ/native/>
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**Abstracts** (\*my graduate student, ^presenter)

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