

Curriculum Vitae

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1. Education:

Ph.D. Pharm. Sci. (Analytical Chemistry), U.C, Cairo, Egypt, 1975.

M. Pharm. Sci. (Analytical Chemistry), U.C, Cairo, Egypt, 1973.

B. Pharmacy & Pharmaceutical Chemistry, U.C., Cairo, Egypt, 1966.

Title of Master's Thesis:

Studies on the determination of vitamins A and D in pharmaceutical preparations.

Title of Dissertation:

Spectrophotometric determination of weakly absorbing pharmaceutical compounds.

2. OTHER TRAINING, LICENSES:

Mass Spectrometry, a course on Instrumentation and Interpretation of organic mass spectra, Chemistry Department, University of Georgia, Athens, GA 1996.

Inductively Coupled Plasma Mass Spectrometry, Technical Training Center of Perkin Elmer Corporation, San Jose, CA 1996.

Introduction to Computer Interfacing of Laboratory Instrumentation, theoretical and practical course, Chemistry Department, University of Georgia, Athens, GA 1991.

Radiation Safety course, US EPA, Athens Environmental Research Laboratory, Athens, GA 1991.

MINTEQA2 Metal Speciation Equilibrium Model for Surface and Groundwater, Version 2.01 and PRODEFA2 Problem Definition Program for MINTEQA2 Version 2.01, Athens, GA 1989.

Visiting Research Fellow, University of Strathclyde, Scotland, August 1982 to June 1983 and University of Bradford, England, April 1982 to July 1982.

3. Academic and Professional Positions Held:

07/2015 to present: **Senior Research Scientist**, Center for Applied Isotope Studies, University of Georgia, Athens, GA

12/2009 to 06/2015: **Senior Research Scientist**, Dept. of Crop and Soil Sciences, University of Georgia, Athens, GA.

03/2000 to 12/2009: **Assoc. Research. Scientist**, Dept. of Crop and Soil Sciences, University of Georgia, Athens, GA.

07/1996 to 02/2000: **Chemical Instrumentation Manager**, Dept. of Crop and Soil Sciences, University of Georgia, Athens, GA.

01/1996 to 06/1996: **Chemical Spectroscopist**, Dept. of Crop and Soil Sciences, University of Georgia, Athens, GA.

07/1988 to 09/1995: **Principal Research Scientist**, DynCorp c/o U.S.EPA, Athens, GA 30605.

03/1984 to 07/1988: **Professor and Head**, Analytical Chemistry Department, Faculty of Pharmacy, University of Mansoura, Egypt.

11/1979 to 02/1984: **Associate Professor**, Analytical Chemistry Department, Faculty of Pharmacy, University of Mansoura, Egypt.

11/1975 to 10/1979: **Assistant Professor**, Analytical Chemistry Department, Faculty of Pharmacy, University of Mansoura, Egypt

12/1966 to 10/1975: **Drug Control Analyst**, National Organization for Drug Control and Research (NODCAR), Cairo, Egypt.

4. Publications: (* = abstracted from graduate students' research)

Refereed Scholarly Journal Article

1. Van Sant F, **Hassan SM**, Reavill D, McManamon R, Howerth EW, Seguel M, Bauer R, Loftis, KM, Gregory CR, Ciembor PG, Richie BW, 2019. Evidence of bromethalin toxicosis in feral San Francisco "Telegraph Hill" conures. Plos One 14(3): e0213248.
2. De Andrade LC, Coelho FF, **Hassan SM**, Morris LA, de Oliveira Camargo FA, 2019. Sediment pollution in an urban water supply lake in southern Brazil. Environmental Monitoring and Assessment, 191(1), 12.
3. Crossref Marcet TF, Cápiro NL, Morris LA, **Hassan SM**, Yang Y, Löffler FE, Pennell KD, 2018. Release of Electron Donors during Thermal Treatment of Soils. Environmental Science & Technology 52(6):3642-3651.
4. Cabrera ML, Kissel DE, Fairchild B, **Hassan SM**, Rema JA, Cassity-Duffy K, 2018. Litter Type and Number of Flocks Affect Sex Hormones in Broiler Litter. Journal of Environmental Quality 47:156-161.
5. Shah Rukh, Mohammad Salem Akhtar, Ayaz Mehmood, **Sayed M. Hassan**, Khalid S. Khan, Syed M. S. Naqvi and Muhammad Imran, 2017. Arsenate and arsenite adsorption in relation with chemical properties of alluvial and loess soils. J. Serb. Chem. Soc. 82 (0), 1 – 11.
6. M.S.El-Sharkawy, T.R. El-Beshbseshy, **S.M. Hassan**, E.K.Mahmoud, N.I. Abdelkader, R.M. El-Shal and A.M. Missaoui, 2017. Alleviating salt stress in barley by the use of plant growth stimulants and potassium sulfate. Journal of Agricultural Science, 9, (4), 116- 154.
7. Peter J.Lasier, Matthew L.Urich, **Sayed M.Hassan**, Whitney N,Jacobs, Robert B.Bringolf, Kathleen M.Owens, 2016. Changing agricultural practices: potential consequences to aquatic organisms. Environ Monit Assess, 188 (12), 1-17.
8. Zimeri, A.M., Robb, S.W., **Hassan, S.M.**, Hire, R.R. and Davis, M.B., 2015. Assessing heavy metal and PCB exposure from tap water by measuring levels in plasma from sporadic breast cancer patients, a pilot study. Int J Environ Res Public Health, 12(2), 15683-15691.
9. Muhammad Imran, Mohammad Salem Akhtar, **Sayed Hassan**, Khalid Saifullah Khan, Azeem Khalid, Ayaz Mehmood and Shah Rukh, 2015. Distribution of selenite and selenate with weathering in various parent materials. Asian J. Chem, 27(12), 4417-4424.
10. Tommy W McGaha, Ryan M Young, Nathan D Burkett-Cadena, Joseph P Iburg, Jeremy M Beau, **Sayed Hassan**, Charles R Katholi, Eddie W Cupp, Bill J Baker, Thomas R Unnasch, Raymond Noblet, 2015.

Identification of communal oviposition pheromones from the black fly *Simulium vittatum*. PLoS One 18;10(3): e0118904.

11. Ehab M.H. Abdelraheem, **Sayed M. Hassan**, Mohamed M.H. Arief, Somaia G. Mohammad, 2015. Validation of quantitative method for azoxystrobin residues in green beans and peas Food Chemistry, 182, 246-250.
12. Sanders, B. C., **Hassan, S. M.**, Harrop, T. C. (2014). NO₂ – Activation and Reduction to NO by a Nonheme Fe(NO₂)₂ Complex. *Journal of the American Chemical Society*, 136(29), 10230 - 10233.
13. Jake Mowrer, David Kissel, Miguel Cabrera and **Sayed Hassan**, 2014. NIR Calibrations for Organic, Inorganic, and Mineralized Nitrogen from Poultry Litter. *Soil Sci. Soc. Am. J.* 78(5),1775-1785
14. Mowrer, J., Kissel, D. E., Cabrera, M. L., **Hassan, S. M.**,2013. Non-Degradative Extraction and Measurement of Uric Acid from Poultry Litter. *SSSJ.*, 77(4), 1413-1417.
15. Henderson, R., Kabengi, N., Mantripragada, N., Cabrera, M. L., **Hassan, S. M.**, Thompson,A,2012. Anoxia-Induced Release of Colloid- and Nanoparticle-Bound Phosphorus in Grassland Soils. *Environ. Sci. Technol.*, 46(21), 11727–11734
16. Shadi Ashjaei, William P Miller, Miguel L Cabrera, **Sayed M Hassan**, 2011. Arsenic in soils and forages from poultry litter-amended pastures. *Int J Environ Res Public Health* 2011 May 12;8(5):1534-46.
17. Monalisa Bera, David Radcliffe, Miguel Cabrera,William Vencill, Aaron Thompson and **Sayed Hassan**, 2011. 17beta-estradiol and testosterone sorption in soil with and without poultry litter, *Journal of Environmental Quality*, 40, 1983-1990.
18. Peter J.Lasier, John W. Washington, **Sayed M. Hassan** and Thomas M. Jenkins, 2011. Perfluorinated chemicals in surface waters and sediments from northwest Georgia, USA, and their bioaccumulation in *Lumbricus variegates*. *Environ. Toxicol. Chem.* 30(10), 2194–2201.
19. Nicholas T. Loux, Yee San Su and **Sayed M. Hassan**, 2011. Issues in Assessing Environmental Exposures to Manufactured Nanomaterials. *Int. J. Environ. Res. Public Health* 2011, 8, 3562-3578.
20. Chelsea Ward, **Sayed Hassan** and Mary Mendonca, 2008. Accumulation and Depuration of Trace Metals in Southern Toads, *Bufo Terrestris*, Exposed to Coal Combustion Waste. *Archives of Environmental Contamination and Toxicology*, 56 (2):268-275.
21. Ryan P. Jones, **Sayed M. Hassan**, John H. Rodgers, 2008. Influence of contact duration on sediment-associated copper fractionation and bioavailability. *Ecotoxicology and Environmental Safety*, 71(1):104-116.
22. Sarah E. Sundberg-Jones and **Sayed M. Hassan**, 2007. Sediment-associated elements in a constructed wetland treatment system: distribution, characterization, and toxicity. *Bioremediation, Biodiversity and Bioavailability*, 1(1):41-55.
23. Sarah E. Sundberg-Jones and **Sayed M. Hassan**, 2007. Macrophyte sorption and bioconcentration of elements in a pilot constructed wetland for flue gas desulfurization wastewater treatment. *Water, Air, & Soil Pollution*,183:187- 200.
24. Sarah E. Sundberg, **Sayed M. Hassan**, John H. Rodgers Jr, 2006. Enrichment of elements in detritus from a constructed wetland and consequent toxicity to *Hyalella azteca* Saussure. *Ecotoxicology and Environmental Safety*. 64:264-272.
25. Das, K.C, Minkara, M.Y, Kastner, J.R. and **Hassan, S.M.**, 2002. Reduction of volatile organic compounds and stabilization of industrial biosolids through composting. *Journal of Solid Waste Technology and Management*, 28:71-78.
26. **Hassan, Sayed M.**,2000. Reduction of halogenated hydrocarbons in aqueous media: I. Involvement of sulfur in iron catalysis. *Chemosphere*, 40:1357-1363.
27. **Hassan, S.M.**, A.W. Garrison, H.E. Allen, D.M. DiToro and G.T. Ankley, 1996. Estimation of partition coefficients for five trace metals in sandy sediments and application to sediment quality criteria. *Environ. Toxicol.Chem.*, 15:2198-2208.
28. **Hassan, Sayed M.** and Arthur W. Garrison, 1996. Distribution of chromium species between soil and porewater. *Chemical Speciation and Bioavailability*, 8:85-103.

29. **Hassan, Sayed M.** 1994. Sulfur speciation: Methodology and application to sulfide oxidation studies at the sediment- water interface. *Chemosphere*, 29:2555-2569.
30. Loux, N.T, J.D. Allison, C.R. Chafin and **S.M. Hassan**, 1991. Carbonate equilibria and groundwater sample collection: implications for an estimated average subsurface properties in continental North America. *Int. J. Environmental Analytical Chemistry*, 44:41- 53.
31. **Hassan, Sayed M.** and Nicholas T. Loux. 1990. Elimination of spectral interferences in inductively coupled plasma atomic emission spectroscopy using orthogonal polynomials. *Spectrochimica Acta*, 45B:719-729.
32. Loux, Nicholas T, David S. Brown, Claudia R. Chafin, Jerry D. Allison and **Sayed M. Hassan**, 1989, Chemical speciation and competitive cationic partitioning on a sandy aquifer material. *Chemical Speciation and Bioavailability*, 1:111-125.
33. Ibrahim, F, F. Belal, **S. M. Hassan** and F.A. Aly, 1991. Spectrophotometric determination of some MAO inhibitors using 7,7,8,8-tetracyano-quinodimethane and iodine monochloride. *J.Pharm.Biomed.Anal.* 9:101-7.
34. Ibrahim, Fawzia A, **Sayed M. Hassan** and Mohamed Hefnawy, 1991. Spectrophotometric assay of retinol via charge-transfer complexes. *Mikrochim Acta*, 1:209-215.
35. Zakhari, N.A, **S.M. Hassan** and Y.El-Shabrawy, 1991. Colorimetric determination of beta-adrenergic blocking drugs with carbon disulphide and copper (I) ions. *J.Pharm.Biomed.Anal.* 9:421-26.
36. Zakhari, N.A, **S.M. Hassan** and Y.El-Shabrawy, 1991. Spectrophotometric determination of ergot alkaloids with ninhydrin. *Acta Pharm Nord*, 3:151-154.
37. Amer, M.M, M.F. El-Tarras, **S.M. Hassan** and Sawsan M. Amer, 1991. Determination of amoxycillin by direct absorbance and pH-induced difference spectrophotometry. *Bull.Fac.Pharm. (University of Cairo)* 29:7-11.
38. Belal, F, F. Ibrahim, **S.M. Hassan** and F.A. Aly, 1991. Spectrofluorimetric determination of some pharmaceutically important thioxanthene derivatives. *Anal.Chim.Acta* 255:103-106.
39. Belal, Fathalla, Fawzia A. Ibrahim, **Sayed M. Hassan** and Fatma A. Aly, 1991. Polarographic and spectrophotometric determination of isocarboxazide and tranlylcypromine sulfate through treatment with nitrous acid. *Mikrochim Acta*, 111:61-69.
40. **Hassan, S.M**, F.A. Ibrahim, M.S. El-Din and M.M. Hefnawy, 1990. A stability-indicating high-performance liquid chromatographic assay for the determination of some pharmaceutically important nitrocompounds. *Chromatographia*, 30:176-180.
41. Belal, F, F. Ibrahim, **S.M. Hassan** and F.A. Aly. 1990. Spectrophotometric determination of some psychotropic drugs in two-component mixtures. *Microchem.J.* 41:305-12.
42. **Hassan, Sayed M**, Saadia M. El-Ashry and Mohamed M. El-Kerdawy, 1990. Spectrophotometric determination of pyrithioxin in pharmaceutical preparations. *Spectrosc.Lett.* 23:1273-84.
43. **Hassan, S.M.**, F.A. Ibrahim and M.M. Hefnawy, 1990. Simultaneous high-performance liquid chromatographic determination of furazolidone and nifuroxime in dosage forms. *Anal. Lett.* 23:599-606.
44. **Hassan, S.M**, F. Belal, F. Ibrahim and F.A. Aly. 1989. Fluorometric determination of some thioxanthene derivatives in dosage forms. *Talanta*, 36:557-60.
45. **Hassan, S.M**, F. Belal, F. Ibrahim and F.A. Aly, 1989. Colorimetric determination of some N-substituted phenothiazine derivatives using 2-iodoxybenzoate. *Anal. Lett.* 22:1485-98.
46. **Hassan, S.M**, F. Belal and M. Sultan, 1988. Simultaneous spectrophotometric determination of furazolidone and berberine in tablet form. *Talanta*, 35:977-80.
47. **Hassan, S.M**, M. Sharaf El-Din and M. Sultan, 1988. Application of difference spectroscopy to the determination of some pharmaceutically important nitro compounds. *J.Pharm.Pharmac.* 40:798-800.
48. **Hassan, S.M**, F. Belal, M. Sharaf El-Din and M. Sultan, 1988. Spectrophotometric determination of some pharmaceutically important nitro compounds in their dosage forms. *Analyst*, 113:1087-9.
49. Hassan, S.M, F.Belal, M.K. Sharaf El-Din and M. Sultan, 1988. Simultaneous spectro-photometric determination of phenazo-pyridine and nitrofurantoin in tablets. *Anal. Lett.* 21:1199-1210.
50. **Hassan, Sayed Mohammed** and Fatma Basyoni Salem, 1987. Spectrophotometric determination of inorganic phosphates in Egypt water using resaurine and p.rosolic acid. *Anal. Lett.* 20:1-10.

51. **Hassan, Sayed M**, Fatma B. Salem and Nagat Abd El-Salam.1987.Colorimetric determination of phenols in water samples. *Anal. Lett.* 5:677-688.
52. **Hassan, Sayed M**, Sawsan M. Amer and Mohammed M. Amer, 1987. Determination of fusidic acid and sodium fusidate in dosage forms by derivative spectrophotometry. *Analyst* 112:1459-61.
53. Belal,F., M.K.Sharaf El-Din and **S.M.Hassan**.1986.Spectrophotometric determination of pyrithioxine in dosage forms. *Anal. Lett.* 19:1533-1543.
54. **Hassan, Sayed M.** and A.G. Davidson, 1984. The assay of tropane derivatives in formulations by second derivative UV spectrophotometry. *J.Pharm.Pharmacol.* 36:7-10.
55. Davidson, A.G. and **S.M. Hassan**.1984. The assay of benzenoid drugs in tablet and capsule formulations by second derivative ultraviolet spectrophotometry. *J.Pharm.Sci* 73:413-416.
56. **Hassan, S.M.** and S.A.M. Shaaban,1984. pH-Induced difference spectrophotometric methods for drug analysis. Part II: determination of mefenamic and flufenamic acids. *Pharmazie* 39:691-693.
57. Davidson, A.G. and **S.M. Hassan**,1984. The simultaneous assay of emetine and cephaline in ipecacuanha and its preparations by spectrofluorimetry. *J.Pharm.Biomed.Anal.* 2:441-448.
58. **Hassan, S.M.**, 1983. A stability-indicating assay for bendrofluazide using high-performance liquid Chromatography. *Chromatographia*, 17:101-103.
59. **Hassan, Sayed M**, Mohammed E-S Metwally and Abdel Malek A.Ouf,1983. Simultaneous spectrophotometric determination of amodiaquine-primaquine mixtures in dosage forms. *J.Assoc. Off.Anal.Chem.* 66:1433-1435.
60. **Hassan, Sayed M.** and Soad A.M. Shaaban, 1983. Application of orthogonal functions to spectrophotometric analysis: A stability indicating method for determination of acetaminophen. *J.Pharm.Belg.* 38:258-260.
61. **Hassan, Sayed M**, 1983. Spectrofluorometric determination of ipecacuanha alkaloids in galenical preparations. *J.Pharm.Belg.* 38:305-308.
62. **Hassan, Sayed M.** Mohammed E-S Metwally and Abdel Malek A.Ouf, 1982. A sensitive color reaction for determination of primaquine in pharmaceutical preparations. *Anal. Lett.* 15:213-219.
63. **Hassan, S.M.**, M.E-S Metwally and A.A. Abou Ouf.1982. Determination of certain aminoquinoline antimalarials through ternary complex formation. *Analyst*, 107:1235-1240.
64. **Hassan, Sayed M.** and Soad A.M. Shaaban.1982. pH-Induced difference spectro-photometric methods for drug analysis. Part I: determination of indomethacin. *Anal. Lett.* 15:1693-1699.
65. **Hassan, S.M.**, L. El-Sayed, K.M. Kelani and M.M. Amer,1981. Application of orthogonal functions to spectrophotometric analysis: Determination of nifuroxime and furazolidone in pharmaceutical formulations. *Fresenius Z.Anal.Chem.* 308: 24-28.
66. **Hassan, Sayed M**, Mohammed I.Walash, Sanaa M.El-Sayed and Abdel Malek Abou Ouf,1981. Colorimetric determination of certain phenol derivatives in pharmaceutical preparations. *J.Assoc.Off.Anal.Chem*, 64:1442-1445.
67. **Hassan, S.M.**, M.I. Walash, S.M. El-Sayed and A. Abou Ouf, 1981. Colorimetric determination of phenylephrine in some pharmaceutical formulations. *J. Drug Research (Egypt)* 13:155-161.
68. **Hassan, S.M.**, Z.A.El Sherif and M.M.Amer, 1981. Spectrophotometric determination of sulphathiazole in admixture with sulphadiazine and sulphamerazine. *Egypt.J.Pharm.Sci.* 22:39-46.
69. Abou Ouf, A, M.I.Walash, **S.M. Hassan** and S.M.El-Sayed,1980. Spectrophotometric determination of oxyphenbutazone in pharmaceutical preparations. *Analyst*, 105:169-173
70. **Hassan, S.M.**, 1980. Determination of vitamin A in aqueous preparations without saponification. *Die Pharmazeutische Industrie* 42:516-517.
71. El-Sayed, Laila, **Sayed M. Hassan**, Khadiga M Kelani and Hamed M.El-Fataty,1980. Simultaneous spectrophotometric determination of nifuroxime and furazolidone in pharmaceutical preparations. *J.Assoc.Off.Anal.Chem.* 63:992-995.
72. Abou Ouf,A.A, **S.M. Hassan** and M.E.-S. Metwally,1980. Spectrophotometric determination of primaquine phosphate in Pharmaceutical preparations. *Analyst*, 105:1113-1118.

73. Amer, Sawsan M, **Sayed_M.Hassan** and Mohammed F.El-Tarras,1980. pH-Induced difference spectrophotometric methods for the determination of oxyphenbutazone in some pharmaceutical formulations. *Anal Lett*, 13:1625-1634.
74. Amer, M.M, **S.M. Hassan** and Z.A.El Sherif,1980. Spectrophotometric determination of sulphonamides using anisaldehyde as a color reagent. *J.Drug Research* (Egypt) 12:211-216.
75. El-Khateeb, Sonia, **S.M. Hassan**, A.K.S.Ahmad and M.M. Amer, 1979. Spectrophotometric determination of some non-ionic surfactants. *Tenside* (Detergents) 16:27-29.
76. **Hassan, Sayed M**, 1979. Application of orthogonal functions to the spectrophotometric determination of calciferol in oily injections. *J.Assoc.Off.Anal.Chem*, 62:545-548.
77. **Hassan, S.M.**,1978. A simple thin layer chromatographic method for separating the ergot alkaloids. *Pharmazie* 33:237.
78. Amer, M.M, **S.M. Hassan**, A.Aboul Kheir and A.A. Mostafa,1978, Application of orthogonal function to the determination of prednisolone and hydrocortisone in some pharmaceutical preparations. *Pharmazie* 33:344-346.
79. Abou-Ouf, A, M.I. Walsh, **S.M. Hassan** and S.M. El-Sayed,1978. Colorimetric determination of acetaminophen. *Arch.Pharm.Chemi.Sci.Ed*, 6:164-166
80. **Hassan S.M**, 1978. Application of the orthogonal functions to spectrophotometric analysis: determination of meclozine and pyridoxine in tablets. *Fresenius Z.Anal.Chem*. 292: 400-402.
81. Walsh, M.I and **S.M. Hassan**, 1978. A note on the identification of volatile oils in vaginal powders. *J.Drug Research* (Egypt) 10:85-89.
82. Amer, M.M, A.K.S. Ahmed and **S.M. Hassan**, 1977. Application of orthogonal functions to the spectrophotometric determination of phenytoin in pharmaceutical preparations. *J.Pharm.Pharmac*, 29:291-293.
83. Amer, M.M, A.K.S. Ahmad and **S.M. Hassan**, 1977. Application of orthogonal functions to the spectrophotometric determination of phenytoin and phenobarbitone in pharmaceutical preparations. *J. Pharm.Pharmac*. 29:355-357.
84. Moussa, Abd El-Fattah A. and **S.M. Hassan**, 1977. Spectrophotometric determination of some water-soluble vitamins in pharmaceutical preparations. *Pharmazie* 32:50-51.
85. Amer, M.M, Abdel Kader S. Ahmad and **S.M. Hassan**, 1977. Spectrophotometric determination of oxyphenonium bromide in pharmaceutical preparations. *J. Drug Research* (Egypt) 9: 203-212.
86. Amer, M.M, A.M.Wahbi and **S.M. Hassan**, 1975. Colorimetric determination of vitamin D in some oily pharmaceutical preparations. *Analyst*, 100:238-242.
87. Amer, M.M, A.M.Wahbi and **S.M. Hassan**, 1975. Application of the orthogonal function method to the determination of vitamin A in oily pharmaceutical preparations. *Indian J. of Technology* 13:564-566.
88. Walsh, Mohamed I. and **S.M. Hassan**, 1973. A study of the characterization of some oral penicillins by T.L.C. using metal ions. *J. Drug Research* (Egypt) 5:111-115.

JOURNAL ARTICLES UNDER PUBLICATION:

1. Arsenic, copper and zinc in runoff from broiler litter-amended grasslands. *Journal of Environmental Quality*. Submitted.
2. Effect of plant growth stimulants on barley response to salt stress conditions. *Journal of Crop Improvement*. Submitted.
3. Evaluating non-equilibrium solute transport through loess soil of Pakistan using a HYDRUS model. *Soil Science Society of America Journal*. Submitted.

A. Conference Presentations, Abstracts and Proceedings:

1. A Page-Karjian, A Schaefer, CF Lo, JR Perrault, B Richie, **S Hassan**, CA Harms, D Rotstein, VG Thayer, JM Sullivan, S Han, E Christiansen, A Lehner, J Buchweitz, 2019. Analyzing anthropogenic contaminant concentrations and pathologic trends in stranded cetaceans. 68th Annual International Conference of the Wildlife Disease Association, August 4-9, Tahoe City, California, USA.

2. JR Perrault, A Page-Karjian, NI Stacy, BW Richie, **SM Hassan**, CA Manire, 2018. Inorganic and endocrine disrupting contaminants in leatherback sea turtles (*Dermodochelys Coriacea*): Implications of health and hatchling quality. Southeast Regional Sea Turtle Meeting, February 12-16, 2018, Myrtle Beach, South Carolina, USA.
3. Ehab M.H. Abdelraheem, **Sayed M. Hassan**, Mohamed M.H. Arief, Somaia G. Mohammad, 2015. Validation of analytical method for determination of estradiol, estriol, estrone and testosterone hormones in poultry litter by GC-MS. International Conference of Agriculture and Environment for Sustainable Development, May 25-27, Cairo, Egypt.
4. Stoeckel, J.A, R.B. Bringolf, W.R. Haag, M. Hart, and **S.M. Hassan**. Effects of roundup on mussel recruitment and transformation success under semi-natural conditions. Presented at the Freshwater Mollusk Conservation Society Symposium. St. Charles, MO. Mar. 22-26, 2015.
5. Lasier, Pete J., Urich, Matt L., **Hassan, Sayed M.**, Hazelton, Peter D., Bringolf, Robert B., Owens, Kathleen M., Prowell, Eric. November 2012. Agricultural chemicals in surface waters and sediments from the Upper Conasauga River in northwest Georgia, USA. Annual meeting of the Society of Environmental Toxicology and Chemistry. SETAC, Long Beach, CA
6. McGaha, T. W., Noblet, R., Unnasch, T., **Hassan, S. M.** (2012). *Oviposition and Host-seeking Behavioral Responses of Simulium vittatum IS-7 (Diptera: Simuliidae) to Potential Attractants in Laboratory Bioassays*. University of Georgia campus in Athens, Georgia: The eleventh annual North American Black Fly Association meeting.
7. *Shadi Ashjaei, William Miller, Miguel Cabrera and Sayed Hassan, 2009. Arsenic in Poultry Litter-Amended Soil and Runoff. Proceedings of the Georgia Water Resources Conference, held in April 27–29, 2009, at the University of Georgia, Athens, GA 30602.*
8. Abul B.M. Giasuddin, Sushil R. Kanel, Jason J. Locklin, **Sayed M. Hassan** and Chittaranjan Ray, 2008. Removal of methyl parathion from water by nanoscale zero valent iron. *The 236th ACS National Meeting & Exposition, Philadelphia, Pennsylvania, August 17-21, 2008.*
9. Das, K.C, Kastner, J.R. and **Hassan, S.M**, 2008. Quantification of odorous compounds adsorbed to dust from hog operations. *NOSE2008, International Conference on Environmental Odour Monitoring and Control, Rome, Italy 6-8 July 2008.*
10. Sarah E. Sundberg and **Sayed M. Hassan**, 2006. Partitioning and toxicity of Hg, Se, and As in a pilot-scale constructed wetland for wastewater treatment. *The 1st international conference: Environmental change in lakes, lagoons & wetlands of the southern Mediterranean region.* Cairo, Egypt, January 4-7, 2006.
11. Wayo, L.K., V. Nzungung and **S.M. Hassan**. Biodegradation of polynuclear aromatic hydrocarbons in compost extract-treated soils. Presented at *the 8th International In-Situ and On-Site Bioremediation Symposium, Baltimore, MD, June 6-9, 2005*
12. N.T. Loux, **S.M. Hassan** and C.R. Chaffin. Empirical partitioning models for Pb and Cd using data from 13 soils, sediments and aquifer materials. Presented at *the 229th American Chemical Society National Meeting, San Diego, March 13-17, 2005.*
13. Sarah E. Sundberg, **Sayed Hassan**, and John H. Rogers, Jr, 2004. Macrophyte sorption and concentration of mercury, selenium, and arsenic in a constructed wetland treatment system. *SEATEC National Conference, Seattle, WA, November 2004.*

14. Sarah E. Sundberg, **Sayed Hassan**, and John H. Rogers, Jr, 2004. Responses of *Hyalella Azteca* to detritus from a constructed wetland treatment system. *SEATEC National Conference, Seattle, WA, November 2004.*
15. Ryan P. Jones, **Sayed Hassan**, and John H. Rodgers, Jr., 2004. Comparison of amended and diluted sediment copper toxicity using the amphipod, *Hyalella Azteca* (Saussure). *SEATEC National Conference, Seattle, WA, November 2004.*
16. Cipollone, M.G., N. Lee Wolfe and **Sayed M. Hassan**, 1995. Kinetic studies on the use of metallic iron to reduce organic compounds in water under environmental conditions. *208th National Meeting, ACS, Anaheim, CA; Environmental Division Extended Abstracts, American Chemical Society, Washington, DC, p.812.*
17. **S.M. Hassan**, N.L. Wolfe and M.G. Cipollone, 1995. Reaction mechanisms involved in the reduction of halogenated hydrocarbons with sulfated iron. *208th National Meeting, ACS, Anaheim, CA; Environmental Division Extended Abstracts, American Chemical Society, Washington, DC, p.735.*
18. Cipollone, Mark G, N. Lee Wolfe, **Sayed M. Hassan** and David R. Burris, 1993. Reduction of halogenated hydrocarbons with iron. I. Kinetic observations. *Book of Abstracts, Division of Environmental Chemistry, ACS, Denver, CO, March 1993, p.8.*
19. **Hassan Sayed M**, N. Lee Wolfe, Mark G. Cipollone and David R. Burris, 1993. Reduction of halogenated hydrocarbons with iron II. Mechanisms of the reactions. *Book of Abstracts, Division of Environmental Chemistry, ACS, Denver, CO, March 1993, p.9.*
20. Azarrga, L.V, **Sayed M. Hassan**, Jerry D. Allison and David M.Grimm.1992. Chemical speciation in groundwater-aquifer systems. *The Gordon Research Conference on Environmental Sciences, New Hampton, New Hampshire June 16-19.*
21. Chafin, C.R, N.T. Loux and **S.M. Hassan**, 1991. Studies on the determination of adsorptive iron and manganese in soils and sediments. *21st International Symposium on Environmental Analytical Chemistry, Jekyll Island, GA, May 20-22.*
22. **Hassan, S.M**, N.T. Loux and C.R. Chafin, 1991. Ion chromatographic determination of certain inorganic sulfur species of environmental interest. *21st International Symposium on Environmental Analytical Chemistry, Jekyll Island, GA, May 20-22.*
23. **Hassan, Sayed M**, Nicholas T. Loux and Claudia R. Chafin, 1989. Partitioning of inorganic anionic contaminants with aquifer materials. *Workshop on Metal Speciation and Transport in Groundwaters, Jekyll Island, Georgia, May 24-26.*
24. Chafin, Claudia R, Nicholas T. Loux and **Sayed M. Hassan**, 1989. Laboratory testing of geochemical speciation predictions of subsurface cationic partitioning. *Workshop on Metal Speciation and Transport in Groundwaters, Jekyll Island, Georgia, May 24-26.*
25. Loux, N.T, D.S. Brown, C.R. Chafin, J.D. Allison and **S.M. Hassan**, 1989. Modeling geochemical processes attenuating inorganic contaminant transport in the subsurface region: adsorption on amorphous iron oxide. *Environmental Research Conference on Groundwater Quality and Waste Disposal, EPRI/ EPA, Washington, D.C, May 2-4.*
26. **Hassan, Sayed M**, F.A. Ibrahim and M. Hefnawy, 1988. A simple stability-indicating spectrophotometric method for determination of ascorbic acid in dosage forms. *The XX Conference of Pharmaceutical Sciences, Feb.1988 Cairo, Egypt.*

27. **Hassan, Sayed M.** and Abd El Mottaleb El Gazzar, 1988. Spectrophotometric determination of silver sulphathiazine in dosage forms. *The XX Conference of Pharmaceutical Sciences*, Feb. 1988 Cairo, Egypt.
28. Amer, Mohammed M, Abdel Kader S. Ahmed and **Sayed M. Hassan**, 1987. Application of orthogonal functions to the spectrophotometric determination of codeine and ephedrine in pharmaceutical preparations. *Scientific Conference for Quality Control of Drugs*, Cairo, Egypt, Oct, 14-15.
29. Amer, Mohammed M, Abdel Kader S. Ahmed and **Sayed M. Hassan**, 1987. Simultaneous spectrophotometric determination of codeine and ephedrine in pharmaceutical preparations. *Scientific Conference for Quality Control of Drugs*, Cairo, Egypt, Oct, 14-15.

B. Invited Presentations:

Berry College, Rome, GA, to speak about the use of iron in environmental remediation of halogenated organic pollutants in front of graduate and undergraduate students, April, 22, 2009.

Air Force Office of Scientific Research (AFOSR) to attend "AFOSR JP-8 Jet Fuel Toxicokinetic Mini-Workshop" Ramada Inn Blue Ridge, Raleigh, NC, November 21, 2002.

National Organization for Drug Control and Research (NODCAR), Cairo, Egypt to participate and speak in front of the Sixth Scientific Conference 23-25 March, 2002.

Agricultural Services to participate in Southern Extension and Research Activity - Information Exchange Group 6 (SERA-IEG6) Annual Meeting in Holiday Inn in Athens, GA from June 9-11, 2002. Spoke briefly about phosphorous interference in ICP-OES analysis.

C. Research Reports:

Lasier, P. J., Bringolf, R. B., **Hassan, S. M.** (2012). *Agricultural Chemicals and Storm Water Runoff: Minimizing Impacts on Rare Aquatic Species* (pp. 17).

Winn, R. N., Norris, M. W., **Hassan, S. M.** (2012). *Assessment of Mutagenicity of Berenil®* (pp. 13). Final Report.

Wall, E., **Hassan, S. M.**, Cabrera, M. L. (2012). *Determination of Total Fat and Fatty Acid Content in Chicken Litter* (pp. 8).

D. EPA Reports:

Sayed M. Hassan, 1995. Measurement of toxaphene degradation in contaminated soil samples using iron/iron pyrite mixtures. AERL/USEAP, internal report, work assignment 1A-5.

Sayed M. Hassan, 1995. Studies on the degradation of DDT in natural systems in the presence of added reducing agents. AERL/USEPA internal report, work assignment 1A-5.

Sayed M. Hassan, 1994. Distribution properties of certain metal cations at the interface between low sorptive sediments and porewater, AERL/USEPA internal report, work assignment 1C.

Sayed M. Hassan, 1994. Distribution and analysis of chromium species at the sediment porewater interface. AERL/USEAP internal report, work assignment 1C,

Sayed M. Hassan and Claudia R. Chafin, 1993. Geochemistry, bioavailability and methods of analysis of chromium in environmental systems: a brief literature survey. AERL/USEPA internal report, work assignment 1A-3.

1. Grants, Sales and Contracts:

A. Grants Received:

1. **Sayed M. Hassan**. Multi-element Chemical Analysis of Slave Village Soils at Cumberland Island National Seashore, 2017 – 2018 US National Park Service, \$40,500.
2. Lasier PJ, Bringolf RB, **Hassan SM**. Agricultural Chemicals and Storm water Runoff: Potential Impacts on Rare and Threatened Aquatic Species in the Upper Conasauga River. 2010 - 2014 US Fish and Wildlife Service, \$265,000.
3. **Sayed M. Hassan** and William P. Miller, 2009. Effect of Fuel Additive Viscon on the Environmental Fate of Diesel Fuel. A grant funded by Viscon Technology Applications, LLC for 9 months from 12/01/2009 to 09/01, 2010, total funds \$35,608.00.
4. Pete J. Lasier (US GS) and **Sayed M. Hassan**, 2009. Runoff Concentrations and Effects of Rpeated Applications of a Glyphosate-based Herbicide in Small Aquatic Systems. Total funds #10,100.00 for six months starting May, 2010.
5. Pete Lasier (US GS), **Sayed Hassan** and John Washington (US EPA), 2008. Distribution and Fate of Perfluorocarboxylates in Surface Waters and sediments of the Lower Conasauga River, Georgia. The exploratory project for identification and quantitation of perfluorinated organic chemicals has been funded by US GS at \$6500.00 for one year.
6. Angela Westin (GA EPD), Marilyn Thornton (EPA), Steven Blackburn (EPA), Ryan Eaves (ACC), Joshua Black (ACC), Adam Ghafourian (ACC), David Bloyer (ACC), **Sayed Hassan** (UGA) and Harry Mills (MMI Labs), 2008. Illicit discharge detection in Hunnicutt Creek, Brooklyn Creek, and Trail Creek through aerial infrared photography in Athens-Clarke county, GA. A grant funded by US EPA, Contract # 751-80096, total \$110,128 for 15 months.
7. M. Cabrera, B. Fairchild, P. Hartel, **S. Hassan**, D. Kissel, D. Radcliff, W. Vencill and D. Franklin. Fate of hormones in waste from concentrated broiler feeding operations. A grant funded by US EPA from 7/1/2007 to 6/30/2010, total funds \$695,620.00. Hassan's share is \$128,442,
8. Das, K.C., **S. Hassan**, J.R. Kastner, D. MacIntosh, and G. van Wicklen, 2000. Quantifying VOC interactions with particulate matter for the development of odor transport models. Funded by National Pork Producers Council, \$25,000 for One Year. Hassan's share was \$5000.00.
9. Macintosh, **S. Hassan** and others. Measurements and models of longitudinal dietary intake of pyrethroid and organophosphate insecticides by children. Funded by EPA for \$659,764 over Five Years. NB: Work in this project did not start due to resignation of the project manager and moving the funds to Emory University.
10. William P. Miller and **Sayed M. Hassan**, 1998. In-situ remediation of halogenated organic compounds in ground waters using iron sulfide. Funded by the Department of Energy for \$200,000 over two years.

B. Contracts and Sales:

1. Analytical Services contract with The Nature Conservancy Corporation in Georgia-Rome Office. Total charge not to exceed \$25,000.00 per year from 2011 to 2013.
2. The lab has been subcontracted by the Agricultural Services Laboratories to carry out TOC analysis for Georgia EPD Contract No. 751-10128. The five year contract has been extended till March, 2010.
3. Fecal Sterol Analysis. EPA contract #EP09L000193 for analysis of an est. 229 water and sediment samples generated by EPA scientists during a 2-month rain simulation study starting 9/11/2009. Total price not to exceed \$32,770.00.
4. Analysis of Ti in aqueous suspension. EPA contract# EP09L000222 on 9/22/09. Total price not to exceed \$2,500.00 for 100 samples.
5. Use of surfactant modified clay and zeolite for treatment of perchlorate-contaminated water. A research project carried out by PLANTECO Environmental Consultants, LLC. in 2007 and funded by EPA SBIR program. Total funds were \$69,995.80 of which \$20,000.00 were allocated to the lab to cover analytical services.
6. Services order # 07ERSA0433 from US GS for chemical analysis of submitted samples from 7/1/2007 to 8/1/2008. Total price \$23,650.00.
7. Conceptual Design of a Constructed Wetland to Remediate Contaminated Groundwater" GeoSyntec Consultants, Atlanta, GA to study phytochemical degradation of 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, nitrobenzene, aniline, 2,4-diaminotoluene, 2,6-diaminotoluene, 2,4-dinitrotoluene and 2,4-dinitrotoluene in waste waters. Total price \$15,000.00.
8. Chemical evaluations of textile effluents including metals, anions, naphthalene sulfonic acid, polybromodiphenyloxides, nonylphenoethoxylates and antimicrobial agents (including commercial products). Service orders from US GS were submitted for samples from 2001 till 2007. Total price \$209,000.00.
9. Analysis of inorganic components of sediments and sediment porewaters collected from Dade County, Florida, along with dichloromethane extraction of sediments. Service orders from US GS were submitted for 2002 totaling \$21,500.00.
10. Analysis of inorganic components of sediments and sediment pore-waters collected for aquatic habitat assessments. Service orders submitted by US GS in 2002, total funds \$1,500.00. From 2004 till 2007, the submitted service orders' total was \$5,200.00.

C. Creative Activities:

Hassan, S.M. and Miller, W.P, 1998. Rapid dehalogenation of organic compounds in aqueous systems. University of Georgia Research Foundation, invention disclosure agreement, case file 709; open for commercialization.

5. Special Honors Received for Academic Achievements:

Recipient of Abdul Hameed Shoman achievements award, sponsored by Shoman Foundation in Jordan for Young Arab Scientists, 1985.

Biographee, in "Who's Who in the World", 15th and subsequent Editions, starting 1998 and in "Who's Who in the South and Southwest", 23rd and subsequent Editions starting 1993.

6. Membership in Professional and Honorary Societies/Journals.

The American Chemical Society.

The New York Academy of Sciences.

The American Association for the Advancement of Science.
Sigma Xi Society, University of Georgia Chapter.
Association of Official Analytical Chemists.
American Society of Agronomy
Academy of the Environment

7. Evidence of Intellectual Leadership

A. Member of the editorial board of the following journals:

- i) Austin Environmental Sciences
- ii) Journal of Medical Oncology and Therapeutics.

B. Referees Peer Scholarly Articles for Scientific Journals:

The Analyst, Environmental Science and Technology, Talanta, Soil Science Society of America Journal, Water Research, J. Drug Research (Egypt), Bioresouce Technology.

C. Guest editor for special issues in the International Journal for Environmental Research and Public Health:

- a) Soil Pollution: Prevention and Mitigation, February, 2011.
- b) Mass Spectrometry and Environmental Analysis, December, 2012.
- c) Environmental Pollution and Human Health Risk, July 2017.

D. Service as a Member of Advisory Panel for Allocating Research Funds:

Refereed projects submitted by graduate students to receive funds from the EPA, held in Washington, DC, 2001.

E. Other Evidence of Intellectual Leadership:

Faculty member of Interdisciplinary Toxicology Program, UGA since April 2010
Graduate Faculty, UGA, since January 2012.

Adjunct Associate Professor, Department of Forestry and Natural Resources, Clemson University.

Adjunct Professor, Department of Analytical Chemistry, College of Pharmacy, University of Mansoura, Egypt.

8. Experience and Effectiveness with Graduate Education:

A. Co-taught Chemical Analysis of Environmental Samples, CRSS 4660/6660-4660L/6660L, UGA.

B. Service on advisory committees:

1. Lina Korkor Kodji-Wayo, *Enhancement of Rhizodegradation of Organic Contaminants (PAHs) using nutrient amendments*. Department of Geology, University of Georgia. Ph.D. Degree was awarded in May 2006.
2. Chelsea Krenn Ward, *The Effect of Coal Fly Ash as a stressor on the southern Toad, Bufo Terrestris*. Department of Biological Sciences, Auburn University. Ph.D. Degree was awarded in May 2005.
3. Ryan P. Jones, *Measuring the Bioavailable Fraction of Copper-Based Algaecides Associated with Sediment Using Sequential Fractionation Procedures and Responses of the Amphipod Hyalella Azteca Sources*. Department of Forestry and Natural Resources, Clemson University. Master's Degree was awarded in May 2006.
4. Hesham Ahmed, Ph.D. *Pharmaceutical complexes of chitosan*. Department of Pharmaceutics, School of Pharmacy, University of Georgia. Graduated in May 2015.
5. Shadi Ashjaei, *Arsenic in soil and runoff from poultry-litter amended pasture*. Department of Crop and Soil Sciences, University of Georgia. Master's Degree awarded 2010.
6. Monalisa Bera, *Comparison of estradiol and testosterone transport in intact and disturbed columns using stock solutions of radio labeled hormones or radio labeled hormone mixed with broiler litter*. Department of Crop and

Soil Sciences, University of Georgia. Master's Degree awarded 2010.

7. Shangtao Liang. Enzymatic and electrochemical oxidation of emerging contaminants. Department of Crop and Soil Sciences, University of Georgia (Griffin Campus). Ph.D. degree awarded November, 2017.

C. Major Advisor of Fourteen Graduate Students (while serving on the faculty at the University of Mansoura, Egypt):

1. Khadiga M.O. El-Kelany. 1979. *Analytical study on the determination of certain nitrofurans of medicinal value*. M.Pharm.Sci. (Anal. Chem), Department of Analytical Chemistry, University of Cairo.
2. Sanaa El-Sayed. 1980. *Determination of certain phenolic compounds of pharmaceutical interest*. M.Pharm.Sci. (Anal. Chem), Department of Analytical Chemistry, University of Mansoura.
3. Sawsan M.M. Amer. 1980. *Studies on the methods of analysis and control of certain anti-inflammatory pharmaceutical medicaments*. M.Pharm.Sci. (Anal.Chem), Department of Analytical Chemistry, University of Cairo.
4. Mohammed Metwally. 1981. *Analytical determination of certain antimalarial ingredients in pharmaceutical formulations*. M.Pharm.Sci. (Anal.Chem), Department of Analytical Chemistry, University of Mansoura.
5. Zeinab A.A. El-Sherif. 1981. *Studies on the methods of analysis of certain sulpha drugs*. M.Pharm.Sci. (Anal.Chem), Department of Analytical Chemistry, University of Cairo.
6. Soad A.M. Shaaban. 1984. *Determination of certain analgesic and antipyretic drugs in pharmaceutical formulations*. M.Pharm.Sci. (Pharm.Chem), Department of Pharmaceutical Chemistry, University of Cairo.
7. Sawsan M.M. Amer. 1985. *Studies on the methods of analysis and control of certain anti-microbial compounds*. Ph.D. Pharm.Sci (Anal.Chem), Department of Analytical Chemistry, University of Cairo.
8. Saadia El-Ashry. 1986. *Studies on the determination of certain pharmaceutical sulphur compounds*. Ph.D. Pharm.Sci (Pharm.Chem), Department of Pharmaceutical Chemistry, University of Mansoura.
9. Nagat Abdel-Salam. 1987. *Chemical analysis of certain undesirable constituents in drinking water*. M.Pharm. (Anal.Chem), Department of Analytical Chemistry, University of Mansoura.
10. Maha Sultan. 1987. *Studies on the determination of certain organic nitro-compounds of pharmaceutical interest*. M.Pharm.Sci. (Anal.Chem), Department of Analytical Chemistry, University of Mansoura.
11. Mohammed Hefnawy. 1990. *Stability-indicating methods in pharmaceutical analysis*. M.Pharm.Sci. (Anal.Chem), Department of Analytical Chemistry, University of Mansoura.
12. Yaser El-Shabrawy. 1990. *Analytical studies of amino compounds*. M.Pharm.Sci. (Anal.Chem), Department of Analytical Chemistry, University of Mansoura.
13. Zeinab A.A. El-Sherif. 1990. *Spectrophotometric and atomic absorption spectrophotometric methods for the analysis of certain organic pharmaceutical compounds*. Ph.D. Pharm.Sci. (Anal.Chem), Department of Analytical Chemistry, University of Cairo.
14. Fatma El-Zahraa. 1991. *Studies on the analysis of tranquilizers in dosage forms*. Ph.D. Pharm.Sci. (Anal.Chem), Department of Analytical Chemistry, University of Mansoura.

NB: All degrees were granted to the relevant students.

