

Contact Information

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Research Areas and Interests

Nano-materials for chemical sensing

Microgels for drug delivery

Electrochemistry for fuel cell

Teaching

Analytical and General Chemistry

Professional Experiences

Sept. 2021-Aug. 2023, Chair of Dept. of Natural Sciences, Albany State University, GA

Aug. 2017-Aug. 2021, Chair of Dept. of Chemistry and Forensic Science, Albany State University, GA

Publications

- 1) Parthiban Marimuthua, Yong-Jin Lee*, Byung-Hoon Kim and Seong S. Seo, In silico approaches to evaluate the molecular properties of organophosphate compounds to inhibit Acetylcholinesterase activity in housefly, *Journal of Biomolecular Structure and Dynamics*, 2018 <https://doi.org/10.1080/07391102.2018.1426046>
- 2) Minh-Phuong Ngoc Bui and Seong S. Seo, "Zirconium oxide thin film modified β -cyclodextrin via sol-gel process for the detection of organophosphate compounds", 2016, *Analytical Letters*, Pages 1600-1612, Volume 49, 2016 - [Issue 10](#) 2016, DOI: 10.1080/00032719.2015.1113418
- 3) Kristopher Brown, Hyungie Doo, Honest Makamba, and Seong Seo, Spectroscopic Studies on Iron and 2,4-Dinitrotoluene Complex and Electrochemical Analysis of 2,4-Dinitrotoluen, *analytical letter* 2015, Vol 48, 15, 2482-2492, DOI: [10.1080/00032719.2015.1030675](https://doi.org/10.1080/00032719.2015.1030675).
- 4) Minh-Phuong Ngoc Bui and Seong S. Seo*, Electrochemical Analysis of Parathion-ethyl using Zirconium Oxide-Laponite Nanocomposites Modified Glassy Carbon Electrode, *Journal of Applied Electrochemistry*, 2015, 45:365-373
- 5) Minh-Phuong Ngoc Bui and Seong S. Seo, "Fabrication of polymerized crystalline colloidal array thin film modified β -cyclodextrin for the detection of Paraoxon-ethyl and Parathion-ethyl", *Analytical Science*, Vol. 30, 1-7, 2014

Recent Grants

It Takes a Village: Communities Leveraged to Advance Scholars' Success, Wrensford, Louise V. (PI), Dr. Okafor, Uzoma A (co-PI), Dr. Lemon, Kenya T (co-PI) and Dr. Seo, Seong (co-PI) .
NSF NSF Scholarships in STEM, \$1,499,993, 10/2022-09/30/2028

Awards and Honors

- 1) Research of the Year 2016, April 2016, Albany State University
- 2) Research of the Year 2010, April 2010, Albany State University
- 3) Grant Writing Award, Office of Research & Sponsored Programs, ASU, 2007
- 4) Who's Who Among America's Teachers, 2006, Who's Who ID#: 40469939-6

Education

Ph. D, 2000 University of Arkansas, Fayetteville, AR