
CURRICULUM VITAE

Paul Ki-Souk Nam

Associate Professor, Department of Chemistry
Missouri University of Science & Technology
229 Schrenk Hall, 400 W. 11th St., Rolla, MO 65409
Phone: (573) 341-4441 Fax: (573) 341-6033 e-mail: nam@mst.edu

EDUCATION:

- Ph.D. Chemistry-Analytical** (1991) University of Missouri-Columbia, MO
PhD Dissertation: "A Tandem Supercritical Fluid Extraction and On-Line Chromatographic System for Multiresidue Analysis"
- M.S. Chemistry-Analytical** (1988) University of Missouri-Columbia, MO
MS Thesis: "Chemical Characterization of Dairy Biomass and Supercritical Fluid Extraction of Hazardous Chemicals"
- B.S. Chemistry** (1985) University of Hawaii, Manoa, HI

PROFESSIONAL WORK EXPERIENCE:

- 2011-Pres **Associate Professor**, Department of Chemistry, Missouri University of Science & Technology (Formerly University of Missouri-Rolla), MO
- 2004-2011 **Assistant Professor**, Department of Chemistry, Missouri University of Science & Technology (Formerly University of Missouri-Rolla), MO
- 1999-2004 **Research Assistant Professor**, Dept. of Chemistry and Center for Environmental Science & Technology, University of Missouri-Rolla, MO
- 1997-1998 **Research Associate**, Dept. of Chemistry and Center for Environmental Science & Technology, University of Missouri-Rolla, MO
- 1992-1995 **Postdoctoral Fellow**, National Center for Agricultural Utilization Research Food Quality & Safety Research Unit, U.S. Department of Agriculture - ARS, Peoria, IL
- 1985-1991 **Graduate Research Assistant**, Environmental Trace Substances Research Center and Dept. of Chemistry, University of Missouri-Columbia, MO

PROFESSIONAL AFFILIATION:

American Chemical Society (ACS); Korean Scientist and Engineer Association (KSEA); Society for the Advancement of Material and Process Engineering (SAMPE); American Oil Chemists' Society (AOCS); Algae Biomass Organization (ABO)

COURSES TAUGHT:

(Undergraduate and graduate level) Analytical Chemistry; Instrumental Analysis; Separations; Environmental Monitoring; Mass Spectrometry

RESEARCH AREA:

Biosensors; Biomarkers; Biofuel & bioproduct; Environmental monitoring & remediation; Supercritical fluid reaction, extraction & chromatography; Analytical method & instrument development; Biopolymer synthesis & characterization; Waste treatment & recycling technology.

PATENT:

1. Patent US 6,939,693 (2005) and Patent Application US 2007/0196448, "Enantioselective oligomerization of α -hydroxy carboxylic acids and α -amino acids", S. Lorbert, P. Nam, D. Forciniti, M. Rajesh, S. Kapila, C. Schasteen
2. Patent Application US 2005009158 (2005), "Process for Enzymatically Resolving an Enantiomeric Mixture of Alpha-hydroxy Acids", R. Arindam, S. Kapila, P. Nam, V. Flanigan, S. Lorbert, C. Schasteen
3. Patents US 6,800,318 (2004), US 6,793,951 (2004), US 6,547,987 (2003), "Solvent and Method for Extraction of Triglyceride Rich Oil", S. Kapila, P. Nam, V. Flanigan

4. Patent US 6,605,590 (2003), “Oligomers and Oligomeric Segments of α -hydroxy Carboxylic Acids and α -amino Acids and Uses in Improving Bioavailability of Nutrition Supplement for Ruminants”, S. Lorbert, C. Schasteen, P. Nam, D. Forciniti, M. Rajesh, S. Kapila
5. Patent US 6,342,651 (2002), “Reductive Combustion of Ammonium Salts of Sulfuric Acid”, S. Lorbert, J. Willock, L. Irvine, S. Kapila, V. Flanigan, P. Nam, Y. Liske

AWARD:

1. Best Paper Award, American Foundry Society Special Merit Award, Molding Methods & Materials Division, 2013, “Foam Pattern Aging and Its Effect on Crack Formation in Investment Casting Ceramic Shells”
2. Excellence in Teaching Award, Department of Chemistry, Missouri University of Science & Technology, 2012
3. US Department of Agriculture Award, Bio-Energy Awareness Days “Grand Challenge” winner, 2008
4. Best Paper Award, 91st Annual Conference of American Oil Chemists’ Society (AOCS), April 28, 2000, “Application of Hydrofluorocarbon in Selective Extraction of Triglycerides from Oilseeds”

RESEARCH GRANT & CONTRACT:

1. “Bioaugmented Phytoremediation to Treat 1,4-Dioxane Contaminated Groundwater”, \$44,974 (Co-PI, 35% Share), University of Iowa, (12/14/2021 – 12/13/2022)
2. “Improving Drinking Water Safety for Small Rural Community through Toxic Disinfection Byproduct Control by Advanced Oxidation”, \$72,543 (PI, 100% Share), USDA CBG through Lincoln University, (5/1/2021 – 3/31/2024)
3. “Side-Effects of Ozone Treatment and Irritant Detection in Modern Aquariums”, \$20,150 (Co-PI, 30% Share), Bass Pro, (12/2020 - 12/2022)
4. “Evaluation of Antioxidant Therapy and Oxidative Stress Biomarkers after Blast-Induced Traumatic Brain Injury in Rat Models”, \$412,261 (PI, 28% Share), US Army/ARL through Leonard Wood Institute, (4/2019 - 9/2022)
5. “Assessing Traumatic Brain Injury Noninvasively with Urinary Metabolites”, \$1,367,141 (Co-PI, 20% Share), US Army/ARL through Leonard Wood Institute, (1/2019-6/2022)
6. “Corn Seed Quality Chemical Marker Discovery”, \$152,050 (Co-PI, 35% Share), Bayer Cropsience, (4/2019 – 3/2023)
7. “Method Development/Optimization to Enhance the Portable GC”, \$33,761 (Co-PI, 50% Share), Nanova Environmental Inc., (9/2018 – 12/2021)
8. “Soy-Based Structural Insulated Panels for Energy Efficient Housing”, \$25,000 (Co-PI, 33% Share), USDA-SBIR through Thermocore, (8/2019-4/2020)
9. “Smart Sensor Bandage for Ulcer Monitoring”, \$120,950 (Co-PI, 49% Share), NIH-STTR, (8/2018 – 4/2020)
10. “Beta Testing of a Newly Developed NovaTest P100 Portable GC”, \$30,991 (Co-PI, 30% Share), Nanova Environmental Inc., (2017–2018)
11. “Energy Efficient Building Panels with Insulation Core of Soy-Based Polyurethane Foams”, \$30,000 (PI, 60% Share), Missouri Soybean Merchandizing Council, (2015–2017)
12. “Microalgae-Based Biofuels and Bioproducts”, \$199,586 (PI, 100% Share); USDA-NIFA through Lincoln University; (Sept. 2010 – Aug. 2015)
13. “On-Field Demonstration of Microalgae Cultivation for CO₂ Bioremediation and Biofuel Production”, \$20,000 (PI, 100% Share); USDA-CSREES Evans-Allen Program through Lincoln University; (Feb. 2014 - Sept. 2014)
14. “High Performance Alloy Materials & Advanced Manufacturing of Steel Castings for Improved Weapon System Reliability”, Additional \$1,800,000 (Co-PI, 5% Share); US Army through Benet Laboratories; (Aug. 2010 – July 2012)
15. “Integrated Program for the Development of Microalgae as Sustainable Resources for Biofuels and Biomaterials”, \$526,906 (PI, 80% Share); Missouri Life Sciences Research Board; (Jan. 2008 – June. 2012)
16. “Research and Development Program for Micro-algae Cultivation, Oil Extraction and Conversion to

- Biodiesel”, \$70,000 (PI, 100% Share); USDA-CSREES Evans-Allen Program through Lincoln University; (Jan. 2011 - Dec. 2012)
17. “High Performance Alloy Materials & Advanced Manufacturing of Steel Castings for Improved Weapon System Reliability”, \$2,998,033 (Co-PI, 5% Share); US Army through Benet Laboratories; (Aug. 2007 – Mar. 2011)
 18. “Research and Development Program for Micro-algae Cultivation, Oil Extraction and Conversion to Biodiesel”, \$140,000 (PI, 100% Share); USDA-CSREES Evans-Allen Program through Lincoln University; (Jan. 2008 - Dec. 2010)
 19. “The use of power plant flue gas to grow algae as an attempt to reduce carbon-dioxide gas emissions”, \$50,000 in-kind (PI, 50% Share); Associated Electric Cooperative Inc. & Central Electric Power Cooperative, Missouri; (Sept. 2008 – Aug. 2010)
 20. “Development and Evaluation of a Highly Effective Vapor Disinfectant for Dynamic Decontamination of Vehicles, Buildings and Other Structures” \$603,099 (Co-PI, 15% Share); Naval Surface Warfare Center through Mid America Research & Development Foundation; (Aug. 2007 – Jul. 2009)
 21. “Center for Agricultural / Environmental Experiential Learning” \$31,082 (PI, 100% Share); USDA-CSREES through Lincoln University; (Sep. 2006 – Aug. 2009)
 22. “Endocrine Modulators and Excess Nutrients in Little Medicine Creek and West Locust Creek”, \$293,266 (Co-PI, 30% Share); US EPA Region 7 through Missouri Dept. of Conservation; (2003–2007)
 23. “Development of Healthy Food and Drink Products from Germinated and Fermented Soybean” \$66,000 (PI, 40% Share); Missouri Soybean Merchandising Council, Jeff. City, MO; (2004–2007)
 24. “Characterization and Biological Effect Study of Endocrine Disruptors in Indian Creek, Newton County, Missouri”, \$70,709 (Co-PI, 50% Share); US Geological Survey through Missouri Water Resources Research Center; (2005-2006)
 25. “Fuel Preparator Evaluation” \$1,332,950 (Co-PI, 10% Share); US Army, TACOM; (2004–2006)
 26. “A Program for the Development and Evaluation of Multispectral Obscurant Materials, Improved Engine Exhaust Smoke Systems, Computer Modeling and Simulation Tools for Analyzing Obscurant Cloud Transport and Diffusion and Robotic Obscurant” \$1,341,000 (Co-PI, 15% Share); US Army, SBCCOM; (2003-2005)
 27. “Development of Advanced Sensors, Obscurants and Robotic Obscurant Platform”, \$2,215,000 (Co-PI, 5% Share); US Army, SBCCOM; (2002-2005)
 28. “Physicochemical Characterization and Biological Evaluation of Mineral and Biogenic Oil Based Obscurant Smoke”, \$402,000 (Co-PI, 20% Share); US EPA; (2001–2005)
 29. “Technique Development for Characterization of Heterogeneous Glycoproteins”, \$225,000 (Co-PI, 40% Share); Monsanto Protein Technologies, St. Louis, MO; (2002–2004)
 30. “Assessment of Endocrine Disruption in Hellbenders (*Cryptobranchus alleganiensis*) in Missouri Rivers”, \$73,422 (Co-PI, 30% Share); Fish and Wildlife Service of the US Dept of the Interior; (2002–2004)
 31. “Research Grade Mass Spectrometers”, \$226,383 (PI, 50% Share); DOE-Los Alamos National Laboratory; (2004)
 32. “Development of Soy Hull – Glycerol Derived Urethane Foams and Evaluation of their Mechanical Properties”, \$28,750 (Co-PI, 25% Share); Missouri Soybean Merchandising Council, Jefferson City, MO; (2002–2004)
 33. “Determination of Antioxidant Activity and Antioxidant Constituents from Natural and Synthetic Sample Sources”, \$74,500 (Co-PI, 25% Share); Novus International, St. Louis, MO; (2001–2003)
 34. “Enzymatic Synthesis and Characterization of MHBA and Amino Acid Co-Oligomers”, \$130,500 (Co-PI, 25% Share); Novus International, St. Louis, MO; (1998–2003)
 35. “Development of High Quality, Healthy and Economic Soy Foods for Human Consumption”, \$27,500 (Co-PI, 40% Share); Missouri Soybean Merchandising Council, Jefferson City, MO; (2002–2003)

36. “An Assessment of High Oleic Soy Oil Esters as Technical Fluids: Insulating and Lubricating Oils”, \$32,000 (Co-PI, 10% Share); Missouri Soybean Merchandising Council, Jefferson City, MO; (2000–2002)
37. “A Process for Selective Extraction of Tocopherols, Isoflavons, and Sterols from Soy Flakes”, \$38,000 (Co-PI, 20% Share); Missouri Soybean Merchandising Council, Jefferson City, MO; (2000–2002)
38. “Development of On-Line, Real Time Particulate Matter Characterization and Monitoring System”, \$1,200,000 (PI, 20% Share); US AirForce and NASA SBIR through Deposition Research Lab Inc., St. Louis, MO; (1998-2001)
39. “Characterization and Biological Effect Study of Endocrine Disruptors in Effluents from Missouri Sewage Treatment Plants”, \$66,700 (Co-PI, 50% Share); US Geological Survey and Missouri Water Resources Research Center, Columbia, MO; (2001-2002)
40. “Development of a Combustion Process for the Production of Feedstock Chemicals from Ammonium Sulfate and Ammonium Bisulfate”, \$77,727 (Co-PI, 30% Share); Novus International, St. Louis, MO; (1998-2000)
41. “Design, Fabrication, and Evaluation of a Pilot-Scale Continuous-Feed Soybean Processing System and Use of Novel Solvent for Tailored Soybean Oil Extraction”, \$90,000 (Co-PI, 30% Share); United Soybean Board, St. Louis, MO; (1998-2000)
42. “Selective Extraction of Soybean Oil Constituents with Novel Solvent Systems”, \$45,000 (Co-PI, 30% Share); Missouri Soybean Merchandising Council, Jeff. City, MO; (1998-2000)

PUBLICATION:

(JOURNAL)

1. M. Bose, J. Hagerty, J. Boes, C. Kim, W. Stoecker, P. Nam. “Optical Oxygen Sensor Patch Printed with Polystyrene Microparticles-Based Ink on Flexible Substrate”, *IEEE Sensors*, (2021), doi: 10.1109/JSEN.2021.3105655
2. M. Bose, G. Dhaliwal, K. Chandrashekhara, P. Nam. “Role of Additives in Fabrication of Soy-based Rigid Polyurethane Foam for Structural and Thermal Insulation Applications”, *Journal of Applied Polymer Science*, (2021), doi:10.1002/app.51325
3. A. Sigler, X. He, M. Bose, A. Cristea, W. Liu, P. Nam, D. James, C. Burton, H. Shi. “Simultaneous Determination of Eight Urinary Metabolites by HPLCMS/MS for Noninvasive Assessment of Traumatic Brain Injury”, *Journal of the American Society for Mass Spectrometry*, (2020), doi: 10.1021/jasms.0c00181
4. G. Dhaliwal, S. Anandan, M. Bose, K. Chandrashekhara, P. Nam. “Effects of Surfactants on Mechanical and Thermal Properties of Soy-Based Polyurethane Foams”, *Journal of Cellular Plastics*, (2020), doi: 10.1177/0021955X20912200
5. G. Dhaliwal, S. Anandan, K. Chandrashekhara, N. Dudenhoeffer, P. Nam, Fabrication and Testing of Soy-based Polyurethane Foam for Insulation and Structural Applications. *Journal of Polymers and the Environment*, 27, 1897-1907 (2019)
6. G. Dhaliwal, S. Anandan, K. Chandrashekhara, J. Lees, P. Nam. “Development and Characterization of Polyurethane Foams with Substitution of Polyether Polyol with Soy-Based Polyol”. *European Polymer Journal* (2018) 107: 105. doi: 10.1016/j.eurpolymj.2018.08.001
7. H. Zhao, P. Nam, V. Richards, S. Lekakh. “Thermal Decomposition Studies of EPS Foam, Polyurethane Foam, and Epoxy Resin (SLA) as Patterns for Investment Casting; Analysis of Hydrogen Cyanide (HCN) from Thermal Degradation of Polyurethane Foam”. *Inter Metalcast* (2018) 1-8. doi: 10.1007/s40962-018-0240-5
8. S. Srinivasan, S. Kapila, D. Forciniti, P. Nam. Efficacy of L-Cysteine as an Antioxidant in Papain Catalyzed Synthesis of Oligopeptides in Organic Solvent System. *Biochemistry and Analytical Biochemistry* (2017) 6: 335
9. K. Amunugama, L. Jiao, K. Koerperich, Y-W. Huang, P. Nam, C. Hou. Cellular Oxidative Damage Is More Sensitive to Biosynthetic Rate than to Metabolic Rate: A Test of the Theoretical Model on

- Hornworms (*Manduca sexta* larvae). *Experimental Gerontology* (2016) 82:73-80
10. H. Zhao, P. Nam, V. Richards, S. Lekakh. Thermal Degradation Kinetics of Epoxy Stereolithography Pattern for Investment Casting Process. *Transactions of the American Foundry Society* (2015) 15-084
 11. S. Palanisami, K. Lee, B. Balakrishnan, F. Rindi, P. Nam. Flue-gas influenced heavy metal bioaccumulation by the indigenous microalgae *Desmodesmus communis* LUCC 002. *Environmental Technology* (2014) 36, 4: 463-469
 12. K. Lee, M. Eisterhold, F. Rindi, S. Palanisami, P. Nam. Isolation and Screening of Microalgae from Natural Habitats in the Midwestern United States of America for Biomass and Biodiesel Sources. *Journal of Natural Science, Biology and Medicine* (2014) 5: 333-339
 13. S. Palanisami, T. Viswanathan, N. Dudenhoefler, K. Lee, P. Nam, "Utilization of Flue Gas as a Carbon Dioxide Source from a Coal-Burning Power Plant for the Cultivation of Microalgae in Outdoor Circular Ponds", *Int. Journal of Pharma and Bio Sciences*, 4, 4 (B), 749-762 (2013)
 14. S. Palanisami, K. Lee, P. Nam, "Nutrient Feeding Strategy Determines The Fate of Microalgal Growth and Carbon Metabolizing Enzyme System – A Study with *Desmodesmus communis* LUCC 002", *Int. Journal of Current Microbiology and Applied Sciences*, 2, 7, 233-239 (2013)
 15. V. Robinson, C. Reeves, K. Lee, S. Palanisami, B. Balakrishnan, P. Nam. Investigating the use of *Enaphalodes rufulus* (red oak borer) as an antimicrobial agent. *Int. J. Curr. Microbiol. App. Sci* (2013) 2(9): 310-315
 16. S. Palanisami, K. Lee, P. Nam. Activity of microalgal lipid accumulating key enzyme isocitrate dehydrogenase on nutrient feeding modulation *Int. J. Curr. Microbiol. App. Sci* (2013) 2(8): 389-393
 17. W.A. Everhart, S.N. Lekakh, V.L. Richards, J.D. Smith, H. Li, K. Chandrashekhara, H. Zhao and P. Nam, "Foam Pattern Aging and its Effect on Crack Formation in Investment Casting Ceramic Shells", *Transactions of the American Foundry Society*, 120: 237-244 (2012)
 18. H. Shi, P. Nam, Y. Ma, "Comprehensive Profiling of Isoflavones, Phytosterols, Tocopherols, Minerals, Crude Protein, Lipid, and Sugar during Soybean (*Glycine max*) Germination", *Journal of Agricultural and Food Chemistry*, 58, 4970-4976 (2010)
 19. C-C. Huang, Y. Xu, P. Nam, J. Briggler, M. McKee, Y. Huang. "Heavy Metals, Hematology, and Serum Chemistry in Adult Hellbenders (*Cryptobranchus alleganiensis*)", *Environmental Toxicology and Chemistry*, 29, 5, 1132-1137 (2010)
 20. M. Solis, C-C. Liu, P. Nam, D. Niyogi, J. Bandeff, Y-W. Huang, "Occurrence of Organic Chemicals in Two Rivers Inhabited by Ozark Hellbenders (*Cryptobranchus alleganiensis bishopi*)", *Archives of Environmental Contamination and Toxicology*, 53, 426-434 (2007)
 21. T. Wang, P. Nam, H. Shi and Y. Ma, "Compositional Monosaccharide Analysis of Transgenic Corn Glycoproteins by HPLC with Fluorescence Detection and LC/MS with Sonic Spray Ionization, *Journal of Chromatographic Science*, 45, 4, 200-206 (2007)
 22. M. Rajesh, S. Kapila, P. Nam, S. Lorbert, and C. Schasteen, "Enzymatic Synthesis and Characterization of L-Methionine and 2-Hydroxy-4-(methylthio) butanoic acid (HMB) Co-oligomers", *J. Agricultural and Food Chemistry*, 51, 2461-2467 (2003)
 23. Y. Liske, S. Kapila, V. Flanigan, P. Nam, and S. Lorbert, "Evaluation of Combustion Processes for Production of Feedstock Chemicals from Ammonium Sulfate and Ammonium Bisulfate", *J. Hazardous Substances Research*, 2, 8-11 (2001)
 24. M. Gehrke, S. Kapila, P. Nam and V. Flanigan "A High Efficiency All Glass Sampling and Concentration Device for Adsorptive Semivolatile Organics" *Chemosphere*, 43, 479-483 (2001)
 25. P. Nam, S. Kapila, Q. Liu, W. Tumiatti, A. Porciani, and V. Flanigan, "Solvent Extraction and Tandem Dechlorination for Decontamination of Soil" *Chemosphere*, 43, 485-491 (2001)
 26. M. Gehrke, S. Kapila, P. Nam and V. Flanigan " A High Efficiency All Glass Sampling and Concentration Device for Adsorptive Semi Volatile Organics" *Organohalogen Compounds*, Vol. 40, 145-148, (1999)
 27. P. Nam, Q. Liu, S. Kapila, W. Tumiatti and A. Porciani, "Assessment of Radiolysis and Chemical Dehalogenation for Decontamination of PCBs and PCDDs in Soil." *Organohalogen Compounds*, Vol. 40, 507-511, (1999)

28. W. Tumiatti, A. Porciani, R. Actis, S. Kapila and P. Nam, " A Continuous technology for decontamination of PCBs/PCTs/PCDFs/PCDDs in insulating oil - CPD process applications" *Organohalogen Compounds*, Vol. 40, 571-575, (1999)
29. X. Zhang, S. Kapila, P. Nam, P. Whitefield and V. Flanigan "A Study on the Photochemical Transformation of Particle-Borne Tetrachloro Dibenzo-p-Dioxins, *Organohalogen Compounds*, Vol 40, 421-424, (1999)
30. Snyder, J.W. King, and K.S. Nam, "Determination of Volatile and Semivolatile Contaminants in Meat by Supercritical Fluid Extraction / Gas Chromatography / Mass Spectrometry", *J. Sci. Food Agric.*, 72 (1), 25-30 (1996)
31. K.S. Nam and J.W. King, "Supercritical Fluid Extraction and Enzyme Immunoassay for Pesticide Detection in Meat Products", *J. Agric. Food Chem*, Vol. 42 (7), pp. 1469-1474 (1994)
32. K.S. Nam and J.W. King, "Coupled SFE/SFC/GC for the Trace Analysis of Pesticide Residues in Fatty Food Samples", *J. High Resolution Chromatography*, Vol. 17 (8), pp. 577-582 (1994)
33. R. Tilio, S. Kapila, K.S. Nam, R. Bossi, S. Faccetti, "Reduction/Elimination of Sulfur Interference in Organochlorine Residue Determination by SFE", *J. Chromatography*, Vol. 662, pp. 191-197 (1994)
34. R. Tilio, K. Krishnan, S. Kapila, K.S. Nam and S. Faccetti, "A Simple Analytical Methodology for Multiresidue Pollutant Determinations", *Chemosphere*, Vol. 29, Nos. 9-11, pp. 1849-1858 (1994)
35. M.H. Liu, S. Kapila, K.S. Nam and A.A. Elseewi, "Tandem Supercritical Fluid Extraction and Liquid Chromatography System for Determination of Chlorinated Phenols in Solid Matrices", *J. Chromatography*, Vol. 639 (2), pp. 151-157 (1993)
36. S. Kapila, K.S. Nam, M.H. Liu, R.K. Puri, A.F. Yanders, "Promises and Pitfalls of SFE in Polychlorinated Compound Analyses", *Chemosphere*, Vol. 25, Nos. 1-2, pp. 11-16 (1992)
37. K.S. Nam, S. Kapila, A.F. Yanders and R.K. Puri, "A Multiple Sample Extraction and On-line System for the Analysis of Chlorinated Compounds", *Chemosphere*, Vol. 23, Nos. 8-10, pp.1109-1116 (1991)
38. K.S. Nam, S. Kapila, A.F. Yanders, and R.K. Puri, " Supercritical Fluid Extraction and Cleanup Procedures for Determination of Xenobiotics in Biological Samples", *Chemosphere*, Vol. 20 (7-9), pp.873-880 (1990)
39. M.H. Liu, S. Kapila, K.S. Nam, T.E. Clevenger, and A.F. Yanders, "Role of Entrainers in Supercritical Fluid Extraction of Chlorinated Aromatics from Soils and Biological Matrixes", *Organohalogen Compd.*, 2, pp.183-185 (1990)
40. K.S. Nam, S. Kapila, A.F. Yanders and R.K. Puri, "Supercritical Fluid Extraction and Cleanup Procedures for Determination of Xenobiotics in Biological Samples", *Chemosphere*, Vol. 20, Nos. 7-9, pp.873-880 (1990)
41. K.S. Nam, S. Kapila, A.F. Yanders and R.K. Puri, "A Multiple Sample Extraction and On-line System for the Analysis of Chlorinated Compounds", *Organohalogen Compd.*, Vol. 2, pp.195-198 (1990)
42. K.S. Nam, S. Kapila, D.S. Viswanath, T.E. Clevenger, J. Johansson and A.F. Yanders, "Application of Supercritical Fluid Extraction of Biological Tissue Samples for the Determination of Polychlorinated Organic", *Chemosphere*, Vol.19, Nos. 1-6, pp.33-38 (1989)

(CONFERENCE PROCEEDING)

1. G. S. Dhaliwal, S. Anandan, S. Ganguly, K. Chandrashekhara*, M. Bose, P. Nam. "Investigation of the Role of Surfactants on the Properties of Soy-Based Polyurethane Foam," *Proceedings of the 5th Annual Composites and Advanced Materials Expo (2018, Dallas, TX)*, The Composites and Advanced Materials Expo (CAMX), Oct 2018
2. G. S. Dhaliwal, S. Anandan, K. Chandrashekhara, and P. Nam, "Development and Characterization of Polyurethane Foams with Polyether Polyol and Soy-Based Polyol," *Proceedings of the CAMX Conference*, Orlando, FL, Dec. 11-14, 2017.
3. G. S. Dhaliwal, S. Anandan, K. Chandrashekhara, N. Dudenhoefter, and P. Nam, "Fabrication and Testing of Soy-based Polyurethane Foam," *Proceedings of CAMX Conference*, Sept. 26-29, Anaheim, CA, 2016.

4. P. Nam, Y. Huang, D. K. Niyogi, "Environmental Monitoring and Assessment of Endocrine Disrupting Chemicals in Missouri Streams", *Proceedings of UKC2008*, San Diego, CA, (2008)
5. K. Lee, P. Nam, V. Flanigan, F. Rindi, "Evaluation of Microalgae for Possible Use as the Biofuel Feedstock", *Proceedings of UKC2008*, San Diego, CA (2008)
6. V. Flanigan, A. Shah, R. Seemamahannop, P. Nam, S. Kapila, "Preparation of Soy Hull Augmented Polyurethanes and Assessment of Their Thermal Conductivity and Gas Permeability", *Proceedings of the SAMPE-Society for the Advancement of Materials and Process Engineering*, Baltimore, MD (2007)
7. R. Seemamahannop, M. Kafeel, V. Flanigan, P. Nam, S. Kapila, "Development and Characterization of Allyl Soyate and Defatted Soy Meal Based Plastics", *Proceedings of the SAMPE-Society for the Advancement of Materials and Process Engineering*, Baltimore, MD (2007)
8. K. Anderson, R. Seemamahannop, P. Nam, S. Kapila, V. Tumiatti, C. Roggero, S. Maina, M. Tumiatti, "Fingerprinting of Mineral Insulating Oils", *Proceedings of the MyTransfo Meeting*, Torino, Italy (2006)
9. V. Flanigan, H. Shi, N. Nateri, P. Nam, K. Lee, S. Kapila, "A fluidized bed combustor for treatment of high moisture content waste", *Proceedings of the IV International Conference on Value Added Resource Recovery*, L'Aquila, Italy (2003)
10. V. Flanigan, H. Shi, N. Nateri, P. Nam, K. Kittiratanapiboon, K. Lee, and S. Kapila, "A Fluidized-Bed Combustor for Treatment of Waste from Livestock Operations", *Proceedings of Waste Research Technology* (2003)
9. K. Hambacker, S. Kapila, P. Nam, M. Gehrke, V. Flanigan, "Rapid Vapor Concentrator and Detection System for Nitroaromatics", *Proceedings of SPIE-The International Society for Optical Engineering*, Vol. 4394 (Pt. 2, Detection and Remediation Technologies for Mines and Minelike Targets VI), 899-911 (2001)
10. M. Gehrke, S. Kapila, P. Nam and V. Flanigan "Design of an Automated Rapid Vapor Concentrator and its Application in Nitroaromatic Vapor Sampling", *Proceedings of SPIE-The International Society for Optical Engineering*, Vol. 4038 (Detection and Remediation Technologies for Mines and Minelike Targets), 1352-1363 (2000)
11. V. Flanigan, S. Kapila, M. Maples, P. Nam and W. Tumiatti, "A Process for Recovery of Carbon, Steel and Organics from Scrape Tires" *Proceedings of the 1st International Conference on Solid Waste - Technology, Safety and Environment*, Rome, Italy. 148-158 (1999)
12. S. Kapila, P. Nam, Q. Liu, V. Flanigan, A. Porchiani and W. Tumiatti, " Solvent Extraction and Tandem Dechlorination for Decontamination of Soil" *Proceedings of the 1st International Conference on Solid Waste - Technology, Safety and Environment*, Rome, Italy. 463 -472 (1999)
13. M. Gehrke, S. Kapila, P. Nam and V. Flanigan, "Mass Spectrometric Characterization of Electron Attachment Reaction Products", *Proceeding of the Society of Photo-Optical Instrument Engineers*, Vol. 3710, 299-306 (1999)
14. M. Gehrke, S. Kapila, P. Nam, and V. Flanigan, "Enhanced Detection of Nitroaromatic Vapors with a Cryotrap and Solute Modulation through Electron Attachment Reactions" *Proceeding of the Society of Photo-Optical Instrumentation Engineers*, Vol. 3392, 401-408 (1998)
15. S. Kapila, K.S. Nam, M.H. Liu, R.K. Puri and A.F. Yanders, "Promises and Pitfalls of Supercritical Fluid Extraction in Polychlorinated Compound Analysis", *Proceedings of the 11th International Symposium on Chlorinated Dioxins and Related Compounds*, Research Triangle Park, NC, Sept. (1991)
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108. S. Srinivasan, S. Gorla, S. Garg, S. Kapila, P. Nam, “Enantio Separation of Alpha Hydroxy Acids through Chymotrypsin Catalyzed Peptide Synthesis and Chiral LC-MS Assessment”, Abstracts of Papers, 58th Pittsburgh Conference, Chicago, IL, Feb. 25 - March 2, 2007
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112. K. Anderson, R. Seemamahannop, C. Roggero, M. Tumiatti, R. Maina, S. Maina, V. Tumiatti, P. Nam, S. Kapila, “Quantitative Determination of Organo-Elemental Sulfur Species in Mineral Insulating Oils and Assessment of Their Copper Corrosivity”, Abstracts of Papers, 58th Pittsburgh Conference, Chicago, IL, Feb. 25 - March 2, 2007
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 129. Y. Huang, W. Lin, I. Stayton, X. Zhou, P. Nam, Y. Ma, “Cytotoxicity and single cell imaging of selected metal oxide and SiO₂ nanoparticles against lung cancer cells, Mechanisms of Action of Inhaled Fiber, Particles, and Nanoparticles in Lung and Cardiovascular Disease, Research Triangle Park, NC, Oct 25–28, 2005
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 131. T. Wang, P. Nam, Y. Ma, “Identification and quantification of carbohydrates in glycoproteins of transgenic corn by high performance liquid chromatography-fluorescence detection and liquid chromatography-sonic spray ionization mass spectrometry”, Abstracts of Papers, 56th Pittsburgh Conference, Orlando, FL, Feb. 27 - March 4, 2005
 132. R. Chand, P. Nam, S. Kapila, Q. Chen, V. Flanigan, E. Black, W. Rouse, “Assessment of

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 137. N. Surapaneni, S. Kapila, P. Nam, H. Shi, V. Flanigan, “Simultaneous determination of tocopherols and phytosterols with gas chromatography-mass spectrometry”, Abstracts of Papers, 56th Pittsburgh Conference, Orlando, FL, Feb. 27 - March 4, 2005
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 141. M. Solís, C. Liu, D. Niyogi, P. Nam, Y. Huang, “Water Quality Assessment, Endocrine Disruption, and Hematology of Ozark Hellbenders (*Cryptobranchus alleganiensis bishopi*) in Eleven Point and White River in Missouri”, The Graduate Research Showcase, University of Missouri-Rolla, Rolla, MO, Feb. 22, 2005
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 143. P. Nam, “Roller-Coaster Ride in Supercritical Fluids – More Excitement Ahead?”, UMR Chemistry Dept Homecoming Seminar, Oct. 15, 2004
 144. Y. Huang, M. Solís, C. Liu, D. Niyogi, P. Nam, “Endocrine Endocrine modulators and excess nutrients in West Locust Creek and Little Medicine Creek in Northern Missouri”, The 25th Annual Meeting of the Society of Environmental Toxicology and Chemistry, Oregon, Nov. 14-18, 2004
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157. H. Shi, P. Nam, S. Kapila, K. Lee, V. Flanigan, Y. Ma, “Determination of Change in the Isoflavone Composition of Soybean Products under Different Processing Conditions”, Abstracts of Papers, 55th Pittsburgh Conference, Chicago, IL, March 7-12, 2004
158. C. Li, S. Kapila, K. Lee, P. Nam, V. Flanigan, “Characterization of Synthetic Hydrophobic Analogs of Glutathione (GSH) and an Assessment of Their Antioxidant Activity”, Abstracts of Papers, 55th Pittsburgh Conference, Chicago, IL, March 7-12, 2004
159. M. Du, J. Chen, P. Nam, H. Shi, S. Kapila, V. Flanigan, Y. Ma, “LC-Fluorescence and LC-MS Determination of Glycoprotein Associated Glycans in Transgenic Corn”, Abstracts of Papers, 55th Pittsburgh Conference, Chicago, IL, March 7-12, 2004
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162. K. Lee, V. Flanigan, S. Kapila, P. Nam, “Development and evaluation of a broad spectrum disinfectant to counter agroterrorism”, The Agroterrorism Conference, Columbia, MO, December 2003
163. V. Flanigan, H. Shi, N. Nateri, P. Nam, K. Kittiratanapiboon, K. Lee, S. Kapila, “A fluidized bed combustor for treatment of farm waste.”, IV Congress and International Conference on Added Value and Recycling of industrial Waste, L’Aquila, Italy, June 23–26, 2003
164. A. Roy, S. Kapila, P. Nam, M. Rajesh, V. Flanigan, “Preparatory scale enantioenrichment of α -hydroxy acids enantiomers through lipase catalyzed hydrolysis of α -hydroxy acids esters”, Abstracts of Papers, 27th International Symposium on High Performance Liquid Phase Separation and Related Techniques, Nice, France, June 15-19, 2003
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167. C. Li, S. H. Shen, Kapila, P. Nam, V. Flanigan, "Determination of Volatile Oxidation Products of Triglycerides To Assess Antioxidant Activities of Synthetic and Natural Antioxidants", Abstracts of Papers, 54nd Pittsburgh Conference, Orlando, FL, March 9-14, 2003
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177. R. Reich, H. Mayfield, P. Dawson, P. Nam, and H. Shen, "Real-time Physical and Chemical Characterization of Particulate Matter from Combustion Source", Abstracts of Papers, 50th ASMS Meeting, Orlando, FL, May 2002
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