PETER KOFINAS

Curriculum Vitae

I. Personal Information

I.A. Contact Information

Kofinas, Peter
Professor and Chair
Department of Chemical and Biomolecular Engineering
A. James Clark School of Engineering
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I.B. Academic Appointments at UMD

Professor	Chemical and Biomolecular Engineering	7/2017 – present
Affiliate Appointments:	Bioengineering, Materials Science and Engineering	
Professor	Fischell Department of Bioengineering	7/2006 – 6/2017
Associate Professor	Chemical and Biomolecular Engineering	7/2002 - 6/2006
Associate Professor	Materials Science and Engineering	7/2001 - 6/2002
Assistant Professor	Materials Science and Engineering	8/1996 - 6/2001

I.C. Administrative Appointments at UMD

Chair	Chemical and Biomolecular Engineering	7/2017 - present
Associate Dean	A James Clark School of Engineering	9/2012 – 9/2017
Associate Chair	Fischell Department of Bioengineering	7/2006 - 8/2012
Director of Graduate Studies	Fischell Department of Bioengineering	7/2006 - 8/2012

I.D. Other Employment

M.I.T., Cambridge, MA	Post-Doc.	Chemical Engineering	7/94 - 6/1996

I.E. Educational Background

Massachusetts Institute of Technology (M.I.T.) Cambridge, MA
Ph.D. Materials Science & Engineering (Program in Polymer Science & Technology) 6/1994

Massachusetts Institute of Technology (M.I.T.) Cambridge, MA
M.S. Chemical Engineering Practice 9/1989

Massachusetts Institute of Technology (M.I.T.) Cambridge, MA
B.S. Chemical Engineering 6/1989

II. Awards, Honors and Recognition

II.1. Research Fellowships, Prizes and Awards

- Senior Outstanding Research Award 2012, A. James Clark School of Engineering, U. of Maryland
- Outstanding Invention of 2007, Office of Technology Commercialization, U. of Maryland
- Outstanding Invention of 2001, Office of Technology Commercialization, U. of Maryland
- CAREER Award, National Science Foundation, 1999

II.2. Teaching Awards

- Philip Merrill Presidential Scholars Program Mentor 2014-2015, Office of Undergraduate Studies, U. of Maryland
- Engaged Faculty Award 2011, A. James Clark School of Engineering, U. of Maryland
- University of Maryland "Keystone Professor": The Clark School Academy of Distinguished Professors, 2005 – 2012
- A. James Clark School of Engineering, U. of Maryland, Junior Faculty Outstanding Teaching Award, 1999

II.3. Service Awards and Honors

- Faculty Outstanding Service Award 2013, A. James Clark School of Engineering, U. of Maryland

II.4. Recent Synergistic Activities

- Have mentored over 80 undergraduates in research
- Have graduated 21 PhD students, 3 of my students have faculty positions
- Symposium Organizer: E-MRS, Strasbourg France (5/2017), "Design and hierarchical assemblies of nanomaterials"
- GEM Fellowship Representative U. of Maryland – STEM recruiting of Underrepresented Minority Students 2013-2017

III. Research, Scholarly and Creative Activities

III.A. Books

Books Edited
"Molecular Imprinted Materials", Materials Research Society Proceedings, Vol. 787, 2004 **P. Kofinas**, Editor. ISBN 1-55899-725-3.

III.B. Articles in Refereed Journals

88. "Hybrid 3D Printing of Synthetic and Cell-Laden Bioinks for Shape Retaining Soft Tissue Grafts", S. Van Belleghem, L. Torres Jr, M. Santoro, B. Mahadik, A. Wolfand, **P. Kofinas**, and John P. Fisher, *Advanced Functional Materials*,1907145, 2019.
DOI: 10.1002/adfm.201907145

87. "Structurally colored protease responsive nanoparticle hydrogels with degradation-directed assembly", L. Torres Jr, J.L. Daristotle, O.B. Ayyub, B.M. Bellato Meinhardt, H. Garimella, A. Margaronis, S. Seifert, N.M. Bedford,T.J. Woehl, and **P. Kofinas**, *Nanoscale*, 11, 17904-17912, 2019. DOI:10.1039/C9NR04624K

86. "Improving the Adhesion, Flexibility, and Hemostatic Efficacy of a Polymer Blend Surgical Sealant by Incorporating Silica Particles"
J. L. Daristotle, S. T. Zaki, L. W. Lau, L. Torres Jr, A. Zografos, P. Srinivasan, O. B. Ayyub, A. D. Sandler, and **P. Kofinas** *Acta Biomaterialia,* 90, 205-216, 2019.
DOI: 10.1016/j.actbio.2019.04.015

85. "Multistage Chemical Heating for Instrument-Free Biosensing"
J.P. Goertz, K. M. Colvin, A.B. Lippe, J.L. Daristotle, **P. Kofinas**, I.M. White
ACS Appl. Mater. Interfaces, 10(39), 33043–33048, 2018
DOI: 10.1021/acsami.8b11611

84. "Spray Processed Composites with High Conductivity and Elasticity"
M. Vural, A.M. Behrens, W. Hwang, J.J. Ayoub, D. Chasser, A.W. Cresce, R.M. Briber, and **P. Kofinas** *ACS Appl. Mater. Interfaces*, 10, 13953-13962, 2018.
DOI: 10.1021/acsami.8b00068

83. "Zeolite-loaded alginate-chitosan hydrogel beads as a topical hemostat" P. Fathi, M.J. Sikorski, K. Christodoulides, K.R. Langan, Y. S. Choi, J.M. Titcomb, A.S. Ghodasara, O.A. Wonodi, H. Thaker, M. Vural, A.M. Behrens, and **P. Kofinas**. *Journal of Biomedical Materials Research: Part B - Applied Biomaterials*, 106(5), 1662-1671, 2018.
DOI:10.1002/jbm.b.33969 PMID: 28842967

82. "A magnetically recoverable photocatalyst prepared by supporting TiO2 nanoparticles on a superparamagnetic iron oxide nanocluster core@fibrous silica shell nanocomposite"
Bokyung Seo, Chaedong Lee, Donggeon Yoo, **Peter Kofina**s, Yuanzhe Piao.
Royal Society of Chemistry Advances 7, 9587, 2017.
DOI: 10.1039/c6ra27907d

81. “Solution Blow Spun Polymer: A Novel Pre-Clinical Surgical Sealant for Bowel Anastomoses” N.G. Kern, A.M. Behrens, P. Srinivasan, C.T. Rossi, J.L. Daristotle, **P. Kofinas**, A.D. Sandler. *Journal of Pediatric Surgery*, 52, 1308-1312, 2017.
DOI: 10.1016/j.jpedsurg.2016.11.044 PMCID: PMC5459684

80. “A review of the fundamental principles and applications of solution blow spinning” J.L. Daristotle, A.M. Behrens, A.D. Sandler, and **P. Kofinas**.
ACS Applied Materials & Interfaces, *8* (51), 34951–34963, 2016.
DOI: 10.1021/acsami.6b12994 PubMed PMID: 27966857

79. “Protein Adsorption on Chemically Modified Block Copolymer Nanodomains: Influence of Charge and Flow” J.S. Silverstein, B.J. Casey, **P. Kofinas**, B.J. Dair. *Journal of Nanoscience and Nanotechnology*, 16(2), 1460-1470, 2016.
DOI: 10.1166/jnn.2016.10895

78. “Stretchable Magneto-dielectric Composites Based on Raspberry-Shaped Iron Oxide Nanostructures” M. Vural, O. Gerber, B.P. Pichon, S. Lemonier, E. Barraud, L.C. Kempel, S. Begin-Colin, and **P. Kofinas**, *Journal of Materials Chemistry C*, 4, 2345, 2016.
DOI: 10.1039/c6tc00419a

77. “Rapid Fabrication of Poly(DL-lactide) Nanofiber Scaffolds with Tunable Degradation for Tissue Engineering Applications by Air-brushing” A.M. Behrens, J. Kim, N. Hotaling, J. Seppala, **P. Kofinas**, W. Tutak. *Biomedical Materials*, 11, 035001, 2016.
DOI: 10.1088/1748-6041/11/3/035001 PMCID: PMC4963247

76. “Core/Shell Iron/Oxide Nanoparticles for Improving the Magneto-Dielectric Properties of Polymer Composites” T-I Yang, C-Y Chuang, S-C Yang, L.C. Kempel, and **P. Kofinas**.
Advanced Engineering Materials, 18(1), 2016.
DOI: 10.1002/adem.201500234

75. “Biodegradable Polymer Blend Based Surgical Sealant with Body Temperature Mediated Adhesion” A.M. Behrens, N.G. Lee, B.J. Casey, P. Srinivasan, M.J. Sikorski, J.L. Daristotle, A. D. Sandler, and **P. Kofinas**. *Advanced Materials*, 27, 8056–8061, 2015.
DOI: 10.1002/adma.201503691 PMCID: PMC4961426

74. “Enzyme Induced Degradation Stiffening in Hydrogels with Structural Color” O.B. Ayyub, and **P Kofinas**. *ACS Nano*, 9 (8), 8004–8011, 2015.
DOI: 10.1021/acsnano.5b01514 PMID: 26196060

73. “Simple and Inexpensive Quantification of Ammonia in Whole Blood” O.B. Ayyub, A.M. Behrens, B.T. Heligman, M.E. Natoli, J.J. Ayoub, G. Cunningham, M. Summar, and **P. Kofinas.** *Molecular Genetics and Metabolism*, 115, 95–100, 2015.
DOI: 10.1016/j.ymgme.2015.04.004 PMID: 25936660 PMCID: PMC4462127

72. “Sprayable Elastic Conductors Based on Block Copolymer Silver Nanoparticle Composites” M. Vural, A. M. Behrens, O. B. Ayyub, J. J. Ayoub, and **P. Kofinas**.
ACS Nano, 9(1), 336-344, 2015.
DOI: 10.1021/nn505306h PMCID: PMC4310637

71. “Synthesis and Characterization of Microphase Separated Primary Amine Functionalized Polystyrene-b-Poly(2-vinylpyridine) Polymer” O.B. Ayyub, M.B. Ibrahim, and **P. Kofinas**. *Polymer*, 55, 6227-6231, 2014. DOI: 10.1016/j.polymer.2014.10.005

70. **“**Hemostatic Strategies for Traumatic and Surgical Bleeding” A.M. Behrens, M.J. Sikorski, and P. **Kofinas**. *Journal of Biomedical Materials Research Part A*, 102(11), 4182-4194, 2014. DOI: 10.1002/jbm.a.35052 PMID: 24307256.

69. “In situ Deposition of PLGA Nanofibers via Solution Blow Spinning” A.M. Behrens, B.J. Casey, M.J. Sikorski, K. Wu, W. Tutak, A, Sandler, and **P**. **Kofinas**. *ACS Macro Letters*, 3(3), 249-254, 2014. DOI: 10.1021/mz500049x

68. “Nanostructured Flexible Magneto-dielectrics for Radio Frequency Applications” M.Vural, B. Crowgey, L. Kempel, and **P. Kofinas**. *Journal of Materials Chemistry C*, 2, 756-763, 2014. DOI:10.1039/C3TC32113D

67. “Blood Aggregating Hydrogel Microparticles for Use as a Hemostatic Agent” A.M. Behrens, M.J. Sikorski, T. Li, Z. J. Wu, B.P. Griffith, and **P**. **Kofinas**. *Acta Biomaterialia*, 10(2) 701–708, 2014. DOI: 10.1016/j.actbio.2013.10.029 PMID: 24185001

66. “The cell release kinetics and the swelling behavior of physically crosslinked xanthanchitosan hydrogels in simulated gastrointestinal conditions” S. Argin, **P. Kofinas**, Y. Martin Lo. *Food Hydrocolloids*, 40, 138-144, 2014. DOI: 10.1016/j.foodhyd.2014.02.018

65. “Enzymatic Activity Preservation and Protection through Entrapment within Degradable Hydrogels” A. Mariani, M. Natoli, and P. **Kofinas**. *Biotechnology and Bioengineering*, 10(11), 2994-3002, 2013. DOI:10.1002/bit.24971 PMID: 23744741

64. “In vivo and In Vivo Evaluation of Polymer Hydrogels for Hemorrhage Control” B.J. Casey, A.M. Behrens, Z.I. Tsinas, J.R. Hess, Z.J. Wu, B.P. Griffith, and **P. Kofinas**. *Journal of Biomaterials Science, Polymer Edition*, 24(15), 1781-1793, 2013. DOI:10.1080/09205063.2013.801707 PMID: 21058718

63. “Self-Assembled Block Copolymer Photonic Crystal for Selective Fructose Detection” O.B. Ayyub, M.B. Ibrahim, R.M. Briber, and **P. Kofinas**. *Biosensors and Bioelectronics*, 46, 124-129, 2013. DOI:10.1016/j.bios.2013.02.025 PMID: 23531858

62. “Investigating polymer thiolation in gene delivery” I. Bacalocostantis, V. Mane, M. Kang M., A. Goodley, S. Muro, W.E. Bentley, and **P. Kofinas**, *Journal of Biomaterials Science, Polymer Edition*. 24(8), 912-926, 2013. DOI:10.1080/09205063.2012.727266 PMID: 23647248

61. “Block Copolymer Electrolyte with Sulfur Based Ionic Liquid for Lithium Batteries” A. Fisher, M.B. Khalid, and **P. Kofinas**. *Journal of the Electrochemical Society*, 159(12) A2124-A2129, 2012. DOI:10.1149/2.066212jes

60. “Structure investigation of poly((2-dimethylamino)ethyl methacrylate)/sodium dodecylsulfate complexes in concentrated poly((2-dimethylamino)ethyl methacrylate) solutions using small angle neutron scattering” W. Lee, **P. Kofinas**, and R.M. Briber.
Polymer, 53(14), 2942-2948, 2012. DOI:10.1016/j.polymer.2012.04.052

59. “Effect of Thiol Pendant Conjugates on Plasmid DNA Binding, Release, and Stability of Polymeric Delivery Vectors” I. Bacalocostantis, V. Mane, M. Kang M., A. Goodley , S. Muro, and **P. Kofinas**. *Biomacromolecules*, 13, 1331−1339, 2012.
DOI:10.1021/bm3004786 PMID: 22515194

58. “Rapid Modular Synthesis and Processing of Thiol-Ene Functionalized Styrene-Butadiene Block Copolymers” J.S. Silverstein, B.J. Casey, M.E. Natoli, B.J. Dair, and **P**. Kofinas**.**
Macromolecules, 45(7), 3161−3167, 2012. DOI: 10.1021/ma300304h

57. “Virus-Assembled Flexible Electrode-Electrolyte Interfaces for Enhanced Polymer-Based Battery Applications” A. Ghosh, J. Guo, A.D. Brown, E. Royston, C.S. Wang, **P. Kofinas**, and J.N. Culver. *Journal of Nanomaterials*, 2012(795892), 2012.
DOI: 10.1155/2012/795892

56. “Anion Effects on Solid Polymer Electrolytes containing Sulfur Based Ionic Liquid for Lithium Batteries” A. Fisher, M.B. Khalid, M. Widstrom, and **P. Kofinas**.
Journal of the Electrochemical Society, 159(5), A593-A597, 2012.
DOI: 10.1149/2.089205jes

55. “Dry Polymer/Sulfur-Based Ionic Liquid Hybrid Electrolytes for Lithium Batteries”, A. Fisher, M.B. Khalid, M. Widstrom, and **P. Kofinas**.
Electrochemical Society Transactions, 41(11) 77-83, 2012.
DOI: 10.1149/1.3687393

54. “Color Changing Block Copolymer Films for Chemical Sensing of Simple Sugars”
O.B. Ayyub, J.W. Sekowski, T-I Yang, X. Zhang, R. Briber, and **P. Kofinas**.
Biosensors and Bioelectronics, 28, 349– 354, 2011.
DOI: 10.1016/j.bios.2011.07.043 PMID: 21820888.

53. “Dry Polymer Electrolytes With Sulfur Based Ionic Liquid for Lithium Batteries” A.S. Fisher, M.B. Khalid, M. Widstrom, and **P. Kofinas.** *J. of Power Sources*, 196, 9767– 9773, 2011.
DOI: 10.1016/j.jpowsour.2011.07.081

52. “Controlled synthesis of core–shell iron–silica nanoparticles and their magneto-dielectric properties in polymer composites”
T-I Yang, R.N.C. Brown, L. C. Kempel, and **P. Kofinas**. *Nanotechnology,* 22,105601, 2011.
DOI: 10.1088/0957-4484/22/10/105601 PMID: 21289404

51. “FVII Dependent Coagulation Activation in Citrated Plasma by Polymer Hydrogels”
B.J. Casey, A.M. Behrens, J. Hess, Z. J. Wu, B. Griffith, and **P. Kofinas**.
Biomacromolecules, 11, 3248–3255, 2010.
DOI: 10.1021/bm101147w PMID: 21058718

50. “Small angle neutron scattering study of deuterated sodium dodecylsulfate micellization in dilute poly((2–dimethylamino)ethyl methacrylate) solutions”

W. Lee, **P. Kofinas**, and R.M. Briber. *Polymer*, 51, 2872-2878, 2010.
DOI:10.1016/j.polymer.2010.04.018

49. "Imprinted Polymer Hydrogels for the Separation of Viruses" L. D. Bolisay, and **P. Kofinas**, *Macromolecular Symposia*, 291–292, 302–306, 2010.
DOI: 10.1002/masy.201050535

48. "Block Copolymer Solid Battery Electrolyte with High Li-ion Transference Number" A. Ghosh, C. Wang, and **P. Kofinas**. *J. Electrochemical Society*, 157(7), A846-A849, 2010.
DOI: 10.1149/1.3428710

47. "Surfactant-modified Nickel Zinc Iron Oxide / Polymer Nanocomposites for Radio Frequency Applications" T-I Yang, L. Kempel, and **P. Kofinas**.
Journal of Nanoparticle Research, 12(8), 2967, 2010.
DOI: 10.1007/s11051-010-9887-4

46. "Effects of Charge Density on the Recognition Properties of Molecularly Imprinted Polyampholyte Hydrogels" D.S. Janiak, O.B. Ayyub, and **P. Kofinas**.
Polymer, 51, 665–670, 2010.
DOI: 10.1016/j.polymer.2009.12.022

45. "Effects of Charge Density on the Recognition Properties of Molecularly Imprinted Polymeric Hydrogels" D.S. Janiak, O.B. Ayyub, and **P. Kofinas**.
Macromolecules, 42(5), 1703–1709, 2009.
DOI: 10.1021/ma8027722

44. "Oxidation Effect on Templating of Metal Oxide Nanoparticles within Block Copolymers" P. Akcora, R.M. Briber, and **P. Kofinas**.
Polymer, 50(5), 1223-1227, 2009.
DOI: 10.1016/j.polymer.2009.01.020

43. "Block Copolymer Nanotemplating of Tobacco Mosaic and Tobacco Necrosis Viruses" A.V. Cresce, J.N. Culver, W.E. Bentley, and **P. Kofinas**.
Acta Biomaterialia, 5(3), 893–902, 2009.
DOI: 10.1016/j.actbio.2008.10.013 PMID: 19010745

42. "Effect of complexation conditions on xanthan-chitosan polyelectrolyte complex gels" S. Argin-Soysal, **P. Kofinas**, and Y.M. Lo. *Food Hydrocolloids*, 23, 202–209, 2009.
DOI: 10.1016/j.foodhyd.2007.12.011.

41. "Magneto-dielectric Properties of Polymer-Fe_3O_4 Nanocomposites" T-I Yang, R.N. Brown, L.C. Kempel, and **P. Kofinas**.
Journal of Magnetism and Magnetic Materials, 320, 2714–2720, 2008.
DOI: 10.1016/j.jmmm.2008.06.008

40. "PEO based Block Copolymer as Solid State Lithium Battery Electrolyte" A. Ghosh, and **P. Kofinas**. *Electrochemical Society Transactions*, **11**(29), 131-137, 2008.
DOI: 10.1149/1.2938916

39. "Nanostructured Block Copolymer Dry Electrolyte" A. Ghosh, and **P. Kofinas**.
J. Electrochemical Society, 155(6) A428-A431, 2008.

DOI: 10.1149/1.2901905

38. “Self-assembly of virus-structured high surface area nanomaterials and their application as battery electrodes” E. Royston, A. Ghosh, **P. Kofinas**, M.T. Harrris, and J.N. Culver. *Langmuir*, 24(3); 906-912, 2008.
DOI: 10.1021/la7016424 PMID: 18154364

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DOI: 10.1002/jbm.a.31757 PMID: 18181111

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35. “Optimization of Virus Imprinting Methods to Improve Selectivity and Reduce Non-Specific Binding” L.D. Bolisay, J.N. Culver, and **P. Kofinas**. *Biomacromolecules*, 8(12), 3893–3899, 2007.
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34. “Molecular Imprinting of Peptides and Proteins in Aqueous Media” D. S. Janiak, and **P. Kofinas**. *Analytical and Bioanalytical Chemistry*, 389(2), 399-404, 2007.
DOI: 10.1007/s00216-007-1327-7 PMID: 17505819

33. “Dielectric Properties of Polymer Nanoparticle Composites” T-I Yang, and **P. Kofinas**. *Polymer*, 48, 791-798, 2007.
DOI: 10.1016/j.polymer.2006.12.030

32. “Nanopatterning of Recombinant Proteins Using Block Copolymer Templates” A.V. Cresce, J.S. Silverstein, W.E. Bentley, and **P. Kofinas**. *Macromolecules*, 39(17), 5826-5829, 2006.
DOI: 10.1021/ma0608830

31. “Molecular Imprinted Polymers for Tobacco Mosaic Virus Recognition” L.D. Bolisay, J.N. Culver, and **P. Kofinas**. *Biomaterials*, 27(22), 4165-4168, 2006.
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30. “TEM Characterization of Diblock Copolymer Templated Iron Oxide Nanoparticles: Bulk Solution and Thin Film Surface Doping Approach” P. Akcora, R.M. Briber, and **P. Kofinas**. *Polymer*, 47(6), 2018-2022, 2006.
DOI: 10.1016/j.polymer.2006.01.064

29. “Magnetic and structural characterization of $CoFe_2O_4$ nanoparticles encapsulated within block copolymer films” G.C. Papaefthymiou, S.R. Ahmed, **P. Kofinas**. *Reviews on Advanced Materials Science,* 10(4): 306-313 Sp. Iss. SI, Oct 2005

28. “Characterization of Network Morphology in Anion Binding Hydrogels Used for Wastewater Remediation” D.R. Kioussis, and **P. Kofinas**. *Polymer*, 46(23), 10167-10172, 2005.
DOI: 10.1016/j.polymer.2005.07.084

27. “Characterization of Anion Diffusion in Polymer Hydrogels Used for Wastewater Remediation” D.R. Kioussis, and **P. Kofinas**. *Polymer*, 46(22), 9342-9347, 2005. DOI: 10.1016/j.polymer.2005.07.045

26. “Structural and magnetic characterization of norbornene-deuterated norbornene dicarboxylic acid diblock copolymers doped with iron oxide nanoparticles” P. Akcora, X. Zhang, B.Varughese, R.M. Briber, and **P. Kofinas**. *Polymer*, 46(14), 5194-5201, 2005. DOI: 10.1016/j.polymer.2005.04.026

25. “Magnetic properties and morphology of diblock copolymer templated ferrimagnetic cobalt oxide nanoparticles” S.R. Ahmed, and **P**. **Kofinas**. *Journal of Magnetism and Magnetic Materials*, 288C, 219-223, 2005. DOI: 10.1016/j.jmmm.2004.09.009

24. “Nanoscale Battery Materials Based on the Self-Assembly of Block Copolymers” S.E. Bullock, and **P. Kofinas**. *Journal of Power Sources*, 132, 256-260, 2004. DOI: 10.1016/j.jpowsour.2003.12.045

23. “Synthesis of an A/B/C Triblock Copolymer for Battery Materials Applications” S.E. Bullock, and **P. Kofinas**. *Macromolecules*, 37(5), 1783-1786, 2004. DOI: 10.1021/ma035668n

22. “Biomimetic Glucose Recognition Using Molecularly Imprinted Polymer Hydrogels” P. Parmpi, and **P. Kofinas**. *Biomaterials*, 25(10), 1969-1973, 2004. DOI: 10.1016/j.biomaterials.2003.08.025

21. “Polydispersity Control in Ring Opening Metathesis Polymerization of Amphiphilic Norbornene Diblock Copolymers” S.R. Ahmed, S.E. Bullock, A.V. Cresce, and **P. Kofinas**. *Polymer*, 44(16), 4943-4948, 2003. DOI: 10.1016/S0032-3861(03)00487-7

20. “Magnetic Properties and Morphology of Block Copolymer Templated Ferrrimagnetic $CoFe_2O_4$ Nanoparticles” S.R. Ahmed, S.B. Ogale, and **P. Kofinas**. *IEEE Transactions on Magnetics*, 39(5), 2198-2200, 2003. DOI:10.1108/TMAG.2003.817074

19. “Synthesis and Characterization of ZnO Nanostructures Templated Using Diblock Copolymers” R.F. Mulligan, A.A. Illiadis, and **P. Kofinas**. *Journal of Applied Polymer Science*, 89(4), 1058-1061, 2003. DOI: 10.1002/app.12250

18. “Reactive phosphorus removal from aquaculture and poultry productions systems using polymeric hydrogels” **P. Kofinas**, D.R. Kioussis. *Environmental Science and Technology*, 37(2), 423-427, 2003. DOI: 10.1021/es025950u

17. “Controlled Room Temperature Synthesis of $CoFe_2O_4$ nanoparticles Through a Block Copolymer Nanoreactor Route” S.R. Ahmed, and **P. Kofinas**. *Macromolecules*, 35(9), 3338-3341, 2002. DOI: 10.1021/ma011797x

16. “Magnetic properties of $CoFe_2O_4$ nanoparticles synthesized through a block copolymer nanoreactor route” S.R. Ahmed, S.B. Ogale, G. Papaefthymiou, R. Ramesh, and **P. Kofinas**. *Applied Physics Letters*, 80(9), 1616-1618, 2002. DOI: 10.1063/1.1456258

15. “Properties of self-assembled ZnO nanostructures”
H.A. Ali, A.V. Cresce, A.A. Iliadis, **P. Kofinas**, U. Lee.
Solid State Electronics, 46(10), 1639-1642, 2002. DOI: 10.1016/S0038-1101(02)00118-1

14. “Molecularly imprinted polymer hydrogels displaying isomerically resolved glucose binding” W.W. Wizeman, and **P. Kofinas**. *Biomaterials*, 22(12)**,** 1485-1491, 2001. DOI:10.1016/S0142-9612(00)00303-3

13. “Path Dependent Microstructure Orientation During Plane Strain Compression of Semicrystalline Block Copolymers” P.L. Drzal, J.D. Barnes, and **P. Kofinas**.
Polymer, 42(13), 5633-5642, 2001. DOI: 10.1016/S0032-3861(00)00864-8

12. “Ammonium perchlorate binding poly(allyl amine hydrochloride) hydrogels for wastewater remediation” D.R. Kioussis, D.F. Smith, and **P. Kofinas**.
Journal of Applied Polymer Science, 80(11), 2073-2083, 2001. DOI:10.1002/app.1307

11. “Reactive nitrogen and phosphorus removal from aquaculture wastewater effluents using polymer hydrogels” D.R. Kioussis, F.W. Wheaton, and **P. Kofinas**.
Aquacultural Engineering, 23(4), 315-332, 2000. DOI:10.1016/S0144-8609(00)00058-3

10. “Microstructure Orientation and Nanoporous Gas Transport in Semicrystalline Block Copolymer Membranes” P.L. Drzal, A.F. Halasa, and **P. Kofinas**.
Polymer, 41(12), 4671-4677, 2000. DOI:10.1016/S0032-3861(99)00652-7

9. “Phosphate Binding Polymeric Hydrogels for Aquaculture Wastewater Remediation” D.R. Kioussis, F.W. Wheaton, and **P. Kofinas**. *Aquacultural Engineering*, 19(3), 163-178, 1999. DOI:10.1016/S0144-8609(98)00049-1

8. “Orientation Texture and Gas Transport in Semicrystalline Block Copolymer Blends” **P. Kofinas**, P.L. Drzal, A.F. Halasa. *Rubber Chemistry and Technology*, 72(5), 918-928, 1999.

7. “Development of Methods for Quantitative Characterization of Network Morphology in Pharmaceutical Hydrogels” **P. Kofinas**, and R.E. Cohen.
Biomaterials, 18(20), 1361-1369, 1997. DOI: 10.1016/S0142-9612(97)00077-X

6. “Hydrogels Prepared by Electron Irradiation of Poly(Ethylene Oxide) in Water Solution: Unexpected Dependence of Cross-Link Density and of Protein Diffusion Coefficients on Initial PEO Molecular Weight” **P. Kofinas**, V. Athanassiou, and E.W. Merrill. *Biomaterials*, 17(15), 1547-1550, 1996. DOI:10.1016/0142-9612(96)89781-X

5. “Melt Processing of Semicrystalline E/EP/E Triblock Copolymers Near the Order-Disorder Transition” **P. Kofinas**, and R.E. Cohen. *Macromolecules*, 28(1), 336-343, 1995. DOI: 10.1021/ma00105a047

4. “Morphology of Highly Textured Ethylene / Ethylene-Propylene (E / EP) Semicrystalline Block Copolymers” **P. Kofinas**, and R.E. Cohen. *Macromolecules*, 27(11), 3002-3008, 1994. DOI: 10.1021/ma00089a016

3. “Gas Permeability of E / EP Semicrystalline Diblock Copolymers” **P. Kofinas** and R.E. Cohen, A.F. Halasa. *Polymer*, 35(6), 1229-1235, 1994. DOI:10.1016/0032-3861(94)90016-7

2. “Path Dependent Morphologies of a Diblock Copolymer of Polystyrene Hydrogenated Polybutadiene” R.E. Cohen, P.L. Cheng, K. Douzinas, **P. Kofinas**, and C.V. Berney. *Macromolecules*, 23(1), 324-327, 1990. DOI: 10.1021/ma00203a055

1. “A Reexamination of Single-Chain Scattering in Heterogeneous Block Copolymers” C.V. Berney, **P. Kofinas**, and R.E. Cohen, *Polymer Communications*, 27(11), 330-331, 1986.

III.C. Published Conference Proceedings

20. “Development and Validation of a Near-Patient Test Casette and Meier for Blood Ammonia Quantification” O.B. Ayyub, B.T. Heligman, S. Hofherr, N. Ah-Mew, P. Kofinas, M. Summar. *Molecular Genetics and Metabolism*, 117(3), 243, 2016.

21. “Engineering a compact and high resolution blood ammonia meter” O.B. Ayyub, B. T. Heligman, A.M. Behrens, G. Cunningham, J. Cabrera-Luque, P. Kofinas, M. Summar *Molecular Genetics and Metabolism*, 114(3), 329-330, 2015

20. “Development of a rapid point-of-care blood phenylalanine meter for at home and bedside use” O.B. Ayyub, J. Cabrera-Luque , B.T. Heligman, G. Cunningham, P. Kofinas, M. Summar. *Molecular Genetics and Metabolism*, 114(3), 311, 2015.

19. “Direct deposition of body temperature responsive polymeric medical sealants” A.M. Behrens, B.J. Casey, M.J. Sikorski, A.D. Sandler, and P. Kofinas *ACS National Meeting March 2015*, Denver CO*,* March 2015.

18. “Rapid Point of Care Detection of Hyperammonemia in Whole Blood” O. Ayyub, A. Behrens, G. Cunningham, K. Cusmano-Ozog, M. Summar, and P. Kofinas *Molecular Genetics and Metabolism*, 111(3), 228-229, 2014

17. “Understanding How Nanopatterning Affects Protein Deposition” B.J. Casey, J.S. Silverstein, P. Kofinas, and B.J. Dair. Technical Proceedings: Nanotechnology 2012: Advanced Materials, CNTs, Particles, Films and Composites (Volume 1), p. 683-685. ISBN: 978-1-4665-6274-5

16. “Molecularly imprinted polymers for selective recognition of signal peptides” D.S. Janiak, and P. Kofinas. *American Chemical Society National Meeting, Polymer Materials Science and Engineering,* **96**, 780, 2007*.*

15. “A Study of homogeneity and template removal during virus imprinted polymer synthesis” L.D. Bolisay, J.N. Culver, and P. Kofinas. *American Chemical Society National Meeting, Polymer Materials Science and Engineering,* **96**, 787, 2007*.*

14. “Block copolymer templated surfactant-modified magnetic nanoparticles” T-I Yang, L.C. Kempel, and P. Kofinas. *American Chemical Society, Polymer Materials Science and Engineering,* **96**, 29-30, 2007*.*

13. “Isomeric Glucose Recognition Using Molecularly Imprinted Polymer Hydrogels” L.D.V. Bolisay, and P. Kofinas. *Mat. Res. Soc. Symp. Proc.*, **787**, 29-34, 2004.

12. “Biomimetic recognition of viruses using molecularly imprinted polymer hydrogels” L.D.V. Bolisay, J.F. March, W.E. Bentley, and P. Kofinas. *Mat. Res. Soc. Symp. Proc.*, **787**, 79-84, 2004.

11. “Synthesis and Characterization of Self-Assembled Piezoelectric ZnO Nanostructures and Integration with Si Processing” A. V. Cresce, H. A. Ali, A. A. Iliadis, U. Lee, and P. Kofinas. *Mat. Res. Soc. Symp. Proc.,* **728**, 115-120, 2002.

10. “Polymeric All Solid State Nanoscale Battery” S. E. Bullock, and P. Kofinas. *Mat. Res. Soc. Symp. Proc.*, **705**, 223-226, 2001.

9. “Properties of self-assembled ZnO nanostructures on Si and SiO_2 wafers” H.A. Ali, A. A. Iliadis, U. Lee, and P. Kofinas. *Symp. Proc. – Int. Semicond. Device Res. Symposium,* 454-457, 2001.

8. “Synthesis and Magnetic properties of Block Copolymer - $CoFe_2O_4$ Nanoclusters” S. R. Ahmed, and P. Kofinas. *Mat. Res. Soc. Symp. Proc.*, **661**, KK10.10/1-KK10.10/6, 2001.

7. “Synthesis of Self-Assembled Metal-Oxide Nanostructures in a Diblock Copolymer Matrix and Integration onto Semiconductor Surfaces” R. F. Mulligan, A. A. Iliadis, U. Lee, and P. Kofinas. *Mat. Res. Soc. Symp. Proc.*, **642**, J2.11/1-J2.11/5, 2001.

6. “Selective Removal and Recovery of Nutrient Anions from Wastewater in a Continuous Fixed-Bed Process” D. R. Kioussis, and P. Kofinas. *Process Development from Research to Manufacturing Topical Conference Reprints*, American Institute of Chemical Engineers, 494-505, 1999.

5. “Orientation Texture and Gas Transport in Semicrystalline Block Copolymer Blends” P. Kofinas. *ACS Rubber Division Meeting Proceedings*, 1998.

4. “Anion Binding Polymeric Hydrogels for Wastewater Remediation” D. R. Kioussis, and P. Kofinas. *Pollution Prevention and Environmental Risk Reduction Topical Conference Reprints*, American Institute of Chemical Engineers, 1998.

3. “Shear Induced Morphology of Semicrystalline Block Copolymers” P. Kofinas, and R.E. Cohen. *Mat. Res. Soc. Symp. Proc.*, **321**,523,1994.

2. “Self-Assembly in Branched Liquid Crystalline Polymers” C. W. Lantman, D. Nerger, D. A.Wicks, A. Karbach, P. Kofinas, S. K. Starry *PMSE Preprints*, ACS National Meeting, Atlanta 1990.

1. “SANS Studies of the Configurations of Single Chains in Heterogeneous Block Copolymers” C.V. Berney, P.L. Cheng, P. Kofinas and R.E. Cohen. *Mat. Res. Soc. Symp. Proc.*, **79**(175), 1987.

III.D. Conferences, Workshops, and Talks

III.D.1. Invited Talks

54. "Functionalized Biodegradable Polymer Surgical Sealant for Bowel Anastomoses" J.L. Daristotle, A. Zografos, S. Zaki, A.M. Behrens, P. Srinivasan, A.D. Sandler, P. Kofinas *European Materials Research Society Spring Meeting*, Strasbourg, France, May 2017.

53. "Functional Polymers for Biomedical Devices and Energy Storage: Safer Batteries, Biosensors for Point-of-Care Diagnostics, and Surgical Sealants", *Virginia Polytechnic Institute and State University, Dept of Chemical Engineering*, 10/10/2016.

52. "Low loss flexible magnetodielectric multi-ferroic nanoparticle composites" *4th International Workshop on Novel Magnetic and Multifunctional Materials* Université Pierre et Marie Curie, Paris, France, 7/5/2016.

51. "Functional Polymers for Biomedical Devices: Safer Batteries, Point-of-Care Diagnostics, and Surgical Sealants" *University of California, Riverside, Dept of Bioengineering*, 10/19/2015.

50. "In Situ Deposition of Polymer Fibers For Surgical Sealant Use" *Mid-Atlantic Soft Matter Workshop* University of Maryland, College Park, MD, 7/29/2015.

49. "Functional Polymers for Biomedical Devices: Batteries, Point-of-Care Diagnostics, and Surgical Sealants" *European Engineering School in Chemistry, Polymers and Materials,University of Strasbourg, Strasbourg, France*, 4/2/2015.

48. "Functional Polymers for Biomedical Devices: Batteries, Point-of-Care Diagnostics, and Surgical Sealants" *University of Patras, Patras, Greece*, 3/16/2015.

47. "Point-of-Care Diagnostics for Hyperammonemia and Aminoacidopathies" *Graduate School of Convergence Science & Technology, Seoul National University, Seoul Korea*, 11/25/2014.

46. "Thinking Outside The Box: Solution Blow Spun Biodegradable Nanofibers for Surgical Applications" *Hemostatic Medical Devices Workshop, U.S. Food and Drug Administration, White Oak. MD,* 9/4/2014.

45. "Point-of-Care Diagnostics for Hyperammonemia and Aminoacidopathies" *Mid-Atlantic Directors and Staff of Scientific Cores 2014 Meeting, Baltimore, MD*, 6/6/2014.

44. "Nanostructured Colorimetric Polymer For Pathogen Detection" *Keynote Speaker, International Conference on Cellular & Molecular Bioengineering (ICCMB3), Singapore, 12/8/2012.*

43. "Safe, High-Performance, Polymer Electrolyte for Lithium Batteries" *Duracell, Bethel, CT,* 7/10/2012.

42. "Low Loss Magnetodielectric Polymer Nanocomposites for Radio Frequency Applications" *International Workshop on Novel Nanomagnetic and Multifunctional Materials 2012* (*IW-NMM2012*), *Seoul, Korea, 6/13/2012.*

41. "Synthesis and Characterization of Safer Polymer Electrolytes for Lithium Batteries"

American Chemical Society Meeting, San Diego, CA, 3/28/2012.

40. "Microstructure and magnetodielectric properties of low loss polymer nanoparticle composites" *Organic Metamaterials Workshop, Army Research Laboratory, Adelphi MD,* 03/02/2012.

39. "Synthetic Microparticle Hydrogel for Hemorrhage Control" *National Institutes of Health, Transfusion Medicine Clinical Center, Bethesda, MD*, 1/2012.

38. "Safe High-Performance Polymer Electrolytes for Lithium Batteries" *Army Research Laboratory, Electrochemistry Division, Adelphi MD,* 12/5/2011.

37. "Functional Polymers for Energy and Medical Application" *Naval Research Laboratory*, *Washington, DC, Biosensors and Biomaterials Division*, 10/15/2010.

36. "Low Loss Magnetodielectric Polymer Composites" *France-Korea-USA Joint Workshop on Nanostructured Magnetic Materials & Advanced Polymers, Strasbourg, France*, 7/20/2010.

35. "Nanostructured Polymers for Energy and Medical Application" *Tufts University, Department of Chemical Engineering*, *Boston, MA*, 4/9/2010.

34. "Functional Polymer Nanostructures for Biomedical Applications" *University of Buffalo, Department of Chemical and Biological Engineering*, *Buffalo, NY*, 4/15/2009.

33. "Nanostructured Polymers for Biological Recognition and Energy Applications" *The Technion- Israel Institute of Technology, Haifa, Israel*, 7/2/2008.

32. "Imprinted Polymer Hydrogels for the Separation of Proteins and Viruses*" Polymer Networks Group Conference, Larnaca, Cyprus*, 6/26/2008.

31. "Functional polymer nanocomposites for flexible antennas and batteries" *Army Research Lab, Adelphi, MD,* 10/16/2007.

30. "Nanosensors for detecting plant pathogens and nanostructures for energy storage" *Board of Agriculture and Natural Resources, The National Academies, Washington DC,* 8/17/2007.

29. "Functional Self-Assembled Polymer Nanocomposites with Application to Intelligent Tire Systems" *The Goodyear Tire and Rubber Co*., 5/20/2007.

28. "Functional Polymer Nanostructures with Application in Biological Recognition and Energy Storage" *Columbia University and Benjamin Levich Institute for Physico-Chemical Hydrodynamics, New York, NY*, 3/20/2007.

27. "Enhancing the Non-Structural Functionalities of Composites Through Block Copolymer Self-Assembly" *Society for the Advancement of Material and Process Engineering Conference, Dallas, TX*, 11/7/2006.
26. "Functional Polymer Nanostructures for Nanobiotechnology Applications" *Laboratory for Physical Sciences, College Park, MD*, 9/7/2006.

25. "Molecular Imprinted Polymers for Plant and Insect Virus Recognition" *International Food Nanotechnology Conference, Orlando FL*, 6/29/2006.

24. “Virus Recognition Using Antibody Sensor Arrays on Self-Assembled Nanoscale Block Copolymer Patterns” *International Food Nanotechnology Conference, Orlando FL,* 6/28/2006.

23. “Molecularly Imprinted Polymers for Recognition of Viruses” *Johns Hopkins University, Baltimore MD*, Chemical and Biomolecular Engineering, 9/8/2005.

22. “Molecularly Imprinted Polymers for Recognition of Viruses and other Bioactive Substances” *Drexel University, Philadelphia, PA*, Chemical and Biological Engineering, 4/22/2005.

21. “Molecularly Imprinted Polymers for Sugar Recognition” *Imperial College, London, United Kingdom*, Dept of Chemistry, 10/28/2004.

20. “Magnetic Properties and Hyperfine structure of $CoFe_2O_4$ Nanoparticles Within Block Copolymers” *Laboratory for Physical Science, College Park, MD*, 8/23/2002.

19. “Anion Binding Polymeric Hydrogels for Ammonium Perchlorate Wastewater Remediation” *Naval Surface Warfare Center, Indian Head MD*, 8/22/2002.

18. “Isomeric Sugar Biorecognition Using Polymer Imprints”, *Naval Research Laboratory, Washington DC*, 5/20/2002.

17. “Polymeric Functional Nanostructures ” *US-Germany Joint Meeting on Nanotechnology, M. I. T. Cambridge, MA,* 12/4/2001.

16. “Molecularly Imprinted Polymeric Hydrogels Displaying Isomerically Resolved Binding of Sugars” *Rutgers University, New Brunswick, NJ*, Biomedical Engineering, 9/24/2001.

15. “Synthesis of ABC Triblock Copolymers for use as a Nanoscale All-Solid State Polymeric Battery” *Naval Research Laboratories, Materials Division, Washington, DC*, 7/24/2001.

14. “Toxic and Nutrient Anion Removal from Wastewater Effluents Using Polymeric Hydrogels” *Rutgers University, New Brunswick, NJ* , Dept of Chemical Engineering, 7/19/2001.

13. “Polymeric Hydrogels for the Treatment of Type II Diabetes and Chronic Kidney Failure” *Johns Hopkins University, Baltimore, MD*, Dept of Materials Science and Engineering, *1/25/2001.*

12. “Functional Nanostructures Within Block Copolymers” *M. I. T., Cambridge, MA*, Program in Polymer Science and Technology, 11/25/00.

11. “Self-Assembled Functional Nanostructures Within Block Copolymer Templates” *Drexel University*, Department of Materials Science and Engineering, 10/2/00.

10. “Self - Assembled Nanostructures Within Block Copolymers: Applications to the Tire Industry” *The Goodyear Tire and Rubber Co.*, 5/12/00.

9. “Self - Assembled Nanostructures Within Block Copolymer Templates” *Naval Research Laboratories, Chemistry Division, Washington, DC*, 7/27/99.

8. “Block Copolymer Nanostructures” *University of Patras*, Dept of Chemical Engineering, *Patras, Greece*, 6/15/1999.

7. “Orientation Texture and Gas Transport in Semicrystalline Block Copolymer Blends” *American Chemical Society, Rubber Division Meeting, Nashville, TN*, 9/30/98.

6. “Interplay of Orientation Texture and Gas Transport in Semicrystalline Block Copolymers” *University of Delaware*, Chemical Engineering Dept, 9/16/98.

5. “Microstructure Orientation and Gas Transport in Semicrystalline Block Copolymer Membranes” *The Goodyear Tire and Rubber Co*., 1/29/97

4. “Gas Transport in Semicrystalline Block Copolymer Membranes” *The Dow Chemical Co.*, Corporate Research and Development, *Midland MI*, 11/5/97.

3. “Shear Induced Morphologies in Semicrystalline Block Copolymers” *Bayer AG*, Zentrale Forschung und Entwicklung, *Krefeld-Uerdingen, Germany*, 8/20/97.

2. “Gas Transport Control in Semicrystalline Block Copolymers” *Army Research Laboratory*, Materials Division, *Aberdeen Proving Grounds, MD*, 2/5/97.

1. “Shear Induced Morphologies of Semicrystalline Block Copolymers and Blends” *National Institute of Standards and Technology* Polymer Division, 5/3/96.

III.D.2. Refereed Presentations

121. “The Role of Particle Size and Charge on Self-Assembly in an Enzyme-Responsive Particle Hydrogel Composite with Structural Color”
L.Torres Jr, J.L. Daristotle, P. Kofinas
European Materials Research Society Spring Meeting, Strasbourg, France, May 2017.

120. “Investigation of an Air-Stable Solid Polymer Electrolyte of Lithium-Ion Batteries”
M. Widstrom, A.W. Cresce, M. Erdi, Peter Kofinas
European Materials Research Society Spring Meeting, Strasbourg, France, May 2017.

119. “Development and Validation of a Near-Patient Test Casette and Meier for Blood Ammonia Quantification” O.B. Ayyub, B. Heligman, S. Hofherr, N. Ah-Mew, P. Kofinas, M. Summar *39th Annual Meeting of the Society-for-Inherited-Metabolic-Disorders (SIMD)*, Ponte Vedra Beach, FL, April 2016.

118. “Investigation of a Polymer Electrolyte/Cathode Interface in a Solid-State Lithium Battery” M.D. Widstrom, A.W. Cresce, and P. Kofinas *Materials Research Society Fall Meeting*, Boston MA, December 2015.

117. “Stretchable Magneto-Dielectrics Using Collectively Assembled Iron Oxide Nanostructures” M. Vural, O. Gerber, B. Pichon, S. Lemonnier, E. Barraud, L.C. Kempel, S. Begin-Colin, and Peter Kofinas. *Materials Research Society Fall Meeting*, Boston MA, December 2015.

116. “Enzyme Responsive Self-Stiffening Photonic Hydrogels” O.B. Ayyub, L. Torres, and P. Kofinas. *Materials Research Society Fall Meeting*, Boston MA, December 2015.

115. “Solution Processed Highly Conductive Stretchable Composites Based on Block Copolymer Fibers with Dual Silver Nanoparticle Networks” M. Vural, A.M. Behrens, J. Ayoub, D. Chasser, and P. Kofinas. *Materials Research Society Fall Meeting*, Boston MA, December 2015.

114. “Development of a rapid point-of-care blood phenylalanine meter for at home and bedside use” O.B. Ayyub, J. Cabrera-Luque , B.T. Heligman, G. Cunningham, P. Kofinas, M. Summar *38th Annual Meeting of the Society-for-Inherited-Metabolic-Disorders (SIMD)*, Salt Lake City, UT, March 2015.

113. “Engineering a compact and high resolution blood ammonia meter” O.B. Ayyub, B.T. Heligman, A.M. Behrens, G. Cunningham, J. Cabrera-Luque, P. Kofinas, M. Summar *38th Annual Meeting of the Society-for-Inherited-Metabolic-Disorders (SIMD)*, Salt Lake City, UT, March 2015.

112. “Direct deposition of body temperature responsive polymeric medical sealants” A.M. Behrens, B.J. Casey, M.J. Sikorski, A.D. Sandler, and P. Kofinas *249th ACS National Annual Meeting*, Denver CO*,* March 2015

111. “Point-of-Care Diagnostic to Measure Blood Ammonia Levels” O.B. Ayyub, A.M. Behrens, B.T. Heligman, J.J. Ayoub, M. Summar, and P. Kofinas *Materials Research Society Fall Meeting*, Boston MA, December 2014

110. “In Situ Deposition of Polymer Nanofibers For Surgical Sealant Use” A.M. Behrens, M.J. Sikorski, K.L. Wu, A.D. Sandler, and Peter Kofinas *Materials Research Society Fall Meeting*, Boston MA, December 2014

109. “Stretchable Conductors Using Dual Nanoparticle Networks” M.Vural, A.M. Behrens, O.B. Ayyub, J.J. Ayyoub, and Peter Kofinas *Materials Research Society Fall Meeting*, Boston MA, December 2014

108. “Rapid Point of Care Detection of Hyperammonemia in Whole Blood” O. Ayyub, A. Behrens, G. Cunningham, K. Cusmano-Ozog, M. Summar, and P. Kofinas *Society for Inherited Metabolic Disorders Annual Meeting*, Pacific Grove CA, March 2014

107. “Hierarchically Architectured MEMS-Based Lithium-Ion Microbattery with Solid Polymer Electrolyte” E. Pomerantseva, M. Khalid, M. Gnerlich, K. Gerasopoulos, P. Kofinas, R. Ghodssi. *Materials Research Society Fall Meeting*, Boston MA, December 2013.

106. “Nanostructured Elastic Magneto-Dielectrics for Radio Frequency Applications” M. Vural, B. Crowgey, L. Kempel, and P. Kofinas. *Materials Research Society Fall Meeting*, Boston MA, December 2013.

105. “Conformal Stretchable Conductors on 3-D Substrates” M. Vural, A. Behrens, and P. Kofinas. *Materials Research Society Fall Meeting*, Boston MA, December 2013.

104. **“**In situ Blow Spun PLGA Nanofibers as a Surgical Hemostatic”

A.M. Behrens, M.J. Sikorski, W. Tutak, and P. Kofinas.
Biomedical Engineering Society Annual Meeting, Seattle WA, September 2013.

103. "Point of Care Diagnostics for Inborn Errors of Metabolism"
O.B. Ayyub, A.M. Behrens, M.Natoli, J.J. Ayoub, J. Cabrera-Luque, G. Cunningham, M. Summar, J. Marugan, A. Simeonov, and P. Kofinas.
Biomedical Engineering Society Annual Meeting, Seattle WA, September 2013.

102. "Point of Care Sensing of Phenylketonuria"
O.B. Ayyub, A.M. Behrens, M.Natoli, J. Ayoub, J. Cabrera-Luque, G. Cunningham, M. Summar, J. Marugan, A. Simeonov, and P. Kofinas.
International Congress of Inborn Errors of Metabolism, Barcelona, Spain, September 2013.

101. "Color Responsive Polymer Films for Small Biomolecule Detection"
O.B. Ayyub, M. Ibrahim, and P. Kofinas
Biomedical Engineering Society Annual Meeting, October 2012, Atlanta Georgia.

100. "Hydrogel Microparticles for Hemostatic Application"
A.M. Behrens, Michael J. Sikorski, J.R. Hess, Z.J. Wu, B.P. Griffith, and P. Kofinas
Biomedical Engineering Society Annual Meeting, October 2012, Atlanta Georgia.

99. "Lithiated Block Copolymer Electrolytes with Ionic Liquids for Batteries"
A.S. Fisher, M.B. Khalid, and P. Kofinas
Pacific Rim Meeting on Electrochemical and Solid State Science (*PRiME) October 2012*, Honolulu, Hawaii.

98. "Block Copolymer Electrolytes with Sulfur-based Ionic Liquids for Lithium Batteries"
A.S. Fisher, M.B. Khalid, and P. Kofinas
63rd Annual Meeting of the International Society of Electrochemistry August 2012, Prague, Czech Republic.

97. "Protein Adsorption on Nanopatterned Block Copolymers"
J.S. Silverstein, B.J. Casey, B.J. Dair, and P. Kofinas
ACS National Meeting August 2012, Philadelphia, PA.

96. "Dry Polymer Electrolytes with Triethyl Sulfonium based Ionic Liquid Additives in Lithium Batteries" A.S. Fisher, M.B., Khalid, and P. Kofinas
16th International Meeting on Lithium Batteries (IMLB 2012), June 2012, Jeju, Korea.

95. "Understanding How Nanopatterning Affects Protein Deposition" B.J. Casey, J.S. Silverstein, P. Kofinas, and B.J. Dair.
Nanotech Conference & Expo, Santa Clara, CA, June 2012.

94. "Color Changing Polymer for Chemical and Biological Agent Detection"
O.B. Ayyub, J.W. Sekowski, and P. Kofinas.
Chemical and Biological Defense Science and Technology Conference 2011, Las Vegas, Nevada, November 2011.

93. "Enzymatic Hydrogel Entrapment for On–Demand Decontamination of Chemical and Biological Agents" A.M. Mariani, J.W. Sekowski, and P. Kofinas.

Chemical and Biological Defense Science and Technology Conference 2011, Las Vegas, Nevada, November 2011.

92. "Self-assembled Virus Templates for the Improvement of Surface Enhanced Raman Spectroscopy"
Angela L. Fu, Adam Brown, Wei W. Yu, Ian M. White, James N. Culver, and P. Kofinas.
Biomedical Engineering Society Annual Fall Meeting, Hartford, Connecticut. October 2011.

91. "On-Demand Enzymatic Function: Entrapment Procedures Utilizing Hydrolysable Crosslinker PEGDA." A.M. Mariani, S. Jammula, and P. Kofinas
Biomedical Engineering Society Annual Fall Meeting, Hartford, Connecticut. October 2011.

90. "Synthesis and characterization of pH sensitive disulfide cross-linked polymer vector for the delivery of genes to MCF-7 breast cancer cells"
I. Bacalocostantis, A. Goodley, M. Kang, S.Muro, P. Kofinas
Biomedical Engineering Society Annual Fall Meeting, Hartford, Connecticut. October 2011

89. "Dry Polymer/Sulfur-Based Ionic Liquid Hybrid Electrolyte for Lithium Batteries" Fisher, A.S., Khalid, M.B., Widstrom, M. and P Kofinas
The Electrochemical Society Fall Meeting, October 2011, Boston, MA.

88. "Dry Polymer Electrolytes with Sulfur Based Ionic Liquids for Lithium Batteries" Fisher, A.S., Khalid, M.B., Widstrom, M. and Kofinas, P., *International Society of Electrochemistry Annual Meeting,* September 2011, Niigata, Japan

87. "Towards a Dry Polymer/Sulfur-based Ionic Liquid Hybrid Electrolyte for Lithium-Ion Batteries" Fisher, A.S., Khalid, M.B., Widstrom, M. and Kofinas, P. *International Symposia on Advancing the Chemical Sciences-4: Challenges in Renewable Energy,* July 2011, Boston, MA.

86. "Polymer/Sulfur-Based Ionic Liquid Hybrid Electrolytes for Lithium Batteries" Aaron S Fisher, Mian B Khalid, Matthew Widstrom, and P. Kofinas *4th Biennial Conference on Ionic Liquids*, Washington, DC, June 2011.

85. "Safer high voltage polymer electrolyte for lithium batteries"
Aaron S Fisher, Mian B Khalid, Matthew Widstrom, and P. Kofinas, Mid Atlantic Regional Meeting, *American Chemical Society*, College Park, MD, May 2011

84. "Polymer-Ionic Liquid Hybrid Electrolytes for Lithium Batteries"
Aaron Fisher, and P. Kofinas.
Materials Research Society Fall Meeting, Boston, MA, December 2010.

83. "Photonic Polymers for Chemical and Biological Sensing"
Omar Ayyub, Jennifer Sekowski, and P. Kofinas.
Biomedical Engineering Society Meeting, Austin TX, October 2010.

82. "Effects of Nanoscale Topography and Charge on Endothelial Cell Spreading and Proliferation" Joshua Silverstein, Esmaeel Paryavi, Helim Aranda-Espinoza, Benita Dair, and P. Kofinas. *Biomedical Engineering Society Meeting*, Austin TX, October 2010.

81. “Polymer Hydrogel for Hemostatic Application” Adam Behrens, Brendan Casey, Zois Tsinas, John Hess, Zhongjun Wu, Bartley Griffith, and P. Kofinas. *Biomedical Engineering Society Meeting*, Austin TX, October 2010.

80. “Coagulation-inducing polymer hydrogel for hemostatic application” B.J. Casey, A.M. Behrens, Z.I. Tsinas, J.R. Hess, W.E. Kelley, Z.J. Wu, B.P. Griffith, and P. Kofinas. *American Chemical Society National Meeting, Polymer Chemistry,* Boston MA, August 2010

79. “Coagulation-Inducing, Synthetic Polymer Hydrogel” B.J. Casey, A.M. Behrens, B.P. Griffith, and P. Kofinas. *Biomedical Engineering Society Meeting*, Pittsburgh, PA, 2009.

78. “Molecularly Imprinted Polymers for the Selective Recognition of Proteins” Omar Ayyub, and P. Kofinas. *Biomedical Engineering Society Meeting*, Pittsburgh, PA, 2009.

77. “Growth of anionic micelles in polymer solutions and hydrogels”
Wonjoo Lee, P. Kofinas, and Robert M. Briber.
American Chemical Society National Meeting, Polymer Materials Science and Engineering, Washington DC, August 2009.

76. “Effect of particle domain wall movement and characteristic length on the radio frequency magnetodielectric properties of polymer composites” Ta-I Yang, Rene Brown, and P. Kofinas
American Chemical Society National Meeting, Polymer Materials Science and Engineering, Washington DC, August 2009.

75. “Nanostructured solid battery electrolytes with enhanced performance” Ayan Ghosh, and P. Kofinas. *American Chemical Society National Meeting, Polymer Materials Science and Engineering,* Washington DC, August 2009.

74. “Coagulation-inducing, hemostatic synthetic polymer hydrogel” B.J. Casey, A.M. Behrens, and P. Kofinas. *American Chemical Society National Meeting, Polymer Materials Science and Engineering,* Washington DC, August 2009.

73. “Silent packaging for gene silencing: Tobacco mosaic virus RNAi delivery” C. W.Hung, E. R. Howarth, H. C. Wu, A. D. Brown, C. Y. Tsao, P. Kofinas, J.N. Culver, W.E. Bentley *American Chemical Society National Meeting,* Philadelphia, PA, August 2008.

72. “Low Loss Polymer Nanoparticle Composites for Radio Frequency (RF) Applications” Ta-I Yang, Leo C. Kempel, and P. Kofinas.
Materials Research Society Fall Meeting 12/08, Boston, MA.

71. “Solutions for flexible energy systems: Block copolymers” Ayan Ghosh, and P. Kofinas.
Materials Research Society Fall Meeting 12/08, Boston, MA.

70. “Self-assembly of virus-templated nanoparticles and surfaces”
James N. Culver, Elizabeth Royston, Michael T Harris, Ayan Ghosh, and P. Kofinas.
American Chemical Society Meeting 08/08, Philadelphia PA.

69. “Small Angle Neutron Scattering of Micelles in Polymer Solutions and Hydrogels”
Wonjoo Lee, P. Kofinas, R. M. Briber.
American Conference on Neutron Scattering 05/2008, Santa Fe, NM.

68. “The Creation of Structured Hydrogels using micelles as Templates” Wonjoo Lee, P. Kofinas, R. M. Briber. *American Physical Society 03/2008, New Orleans, LA.*

67. “PEO-based block copolymer as solid stated lithium battery electrolyte”
Ayan Ghosh, and P. Kofinas.
212th Meeting of the Electrochemical Society, 10/07, Washington DC.

66. “Selective Binding of Peptides and Proteins Using Molecular Imprinted Polymers” Daniel S. Janiak, James N. Culver, and P. Kofinas *Biomedical Engineering Society Meeting 09/07*, Los Angeles, CA.

65. “RNA Packaging and Gene Delivery Using Tobacco Mosaic Virus Pseudo-Virion”
Chi-Wei Hung, James N. Culver, Elizabeth Royston, P. Kofinas, and William E. Bentley
Biomedical Engineering Research Societey Meeting 09/07, Los Angeles, CA.

64. “Effects of solution properties and complexation time on the swelling degree of xanthan-chitosan hydrogels” Sanem Argin, P. Kofinas, and Y. Martin Lo *Institute of Food Technologists Annual Meeting, 07/08*, Chicago IL.

63. “PEO based block copolymer as an all-solid state battery electrolyte”
A. Ghosh, and P. Kofinas.
American Chemical Society National Meeting, Polymer Chemistry, Chicago, IL, March 2007.

62. “Molecularly imprinted polymers for selective recognition of signal peptides”
Daniel S. Janiak, and P. Kofinas
233rd ACS National Meeting, 03/07, Chicago, IL, March 2007.

61. “A Study of homogeneity and template removal during virus imprinted polymer synthesis”
Linden D. Bolisay, James N. Culver, and P. Kofinas
233rd ACS National Meeting, Chicago, IL, *March 2007.*

60. “Block copolymer templated surfactant-modified magnetic nanoparticles”
Ta-I Yang, Leo C. Kempel, and P. Kofinas
233rd ACS National Meeting, 03/07, Chicago, IL.

59. “Nanopatterning of Viruses and Proteins Using Microphase Separated Block Copolymers”
Arthur V. Cresce, and P. Kofinas
APS March Meeting 03/06, Baltimore, MD.

58. “Block Copolymer Nanocomposites for RF Magneto-dielectric Applications”
T-I Yang, and P. Kofinas
APS March Meeting 03/06, Baltimore, MD.

57. “Self Assembled $CoFe_2O_4$ Nanoparticles within Block Copolymer Films: Structural and Magnetic Properties”G.C. Papaefthymiou, A.J. Viescas, S.R. Ahmed, P. Kofinas *APS March Meeting 03/06*, Baltimore, MD.

56. “Separation of histidine-tagged green fluorescent protein by a norbornene diblock copolymer” Arthur V. Cresce, Angela T. Lewandowski, William E. Bentley, and P. Kofinas *BMES Annual Fall Meeting 09/05*, Baltimore, MD

55. “Virus recognition using molecularly imprinted polymer hydyrogels” Linden D. Bolisay, James N. Culver, and P. Kofinas *BMES Annual Fall Meeting 09/05*, Baltimore, MD

54. “Synthesis of Ordered Fe_2O_3 Nanoparticles within Norbornene Methanol/Norbornene Dicarboxylic Acid Diblock Copolymers” Pinar Akcora, Robert M Briber, and P. Kofinas *APS March Meeting 03/05*, Los Angeles, CA.

53. “Selective adsorption of histidine-tagged green fluorescent protein by a norbornene diblock copolymer” Arthur V. Cresce, Angela T. Lewandowski, William E. Bentley, and P. Kofinas *ACS National Meeting 08/04*, Washington, DC.

52. “Virus recognition using molecularly imprinted polymer hydyrogels” Linden D. Bolisay, James N. Culver, and P. Kofinas *ACS National Meeting 08/04*, Washington, DC.

51. “Incorporation of iron oxide nanoparticles into microphase separated poly(norbornene)-*block*-poly(deuterated norbornene dicarboxylic acid) diblock copolymers” Pinar Akcora, Robert M. Briber, and P. Kofinas *ACS National Meeting 08/04*, Washington, DC.

50. “High dielectric constant block copolymer nanocomposites” Ta-I Yang, Pinar Akcora, and P. Kofinas *ACS National Meeting 08/04*, Washington, DC.

49. “Synthesis of Ordered Fe_2O_3 Nanoparticles within Norbornene Methanol/Norbornene Dicarboxylic Acid Diblock Copolymers” Pinar Akcora, Robert M Briber, and P. Kofinas *APS March Meeting 03/05*, Los Angeles, CA.

48. “Recognition of Viruses Using Molecularly Imprinted Polymers” P. Kofinas *AIChE Annual Meeting 11/04*, Austin, TX.
47. “Biomimetic Recognition of Viruses Using Molecularly Imprinted Polymer Hydrogels” E. Chang, L. D.V. Bolisay, J.N. Culver, W. E. Bentley, P. Kofinas *Biomedical Engineering Research Societey Meeting 10/04*, Philadelphia, PA.

46. “$CoFe_2O_4$/block copolymer nanocomposite films: synthesis and characterization”, G. Papaefthymiou, A.J. Viescas, S.R. Ahmed, P. Kofinas *American Chemical Society National Meeting 8/04*, Philadelphia, PA.

45. “Isomeric Glucose Recognition Using Molecularly Imprinted Polymer Hydrogels” P. Kofinas *MRS Fall Meeting 12/03*, Boston, MA.

44. “Biomimetic recognition of viruses using molecularly imprinted polymer hydrogels” L. Bolisay, P. Kofinas *MRS Fall Meeting 12/03*, Boston, MA.

43. “Biomimetic glucose recognition using molecularly imprinted polymer hydrogels” P. Kofinas *AIChE Annual Meeting 11/03*, San Francisco, CA.

42. “Magnetic Properties Characterization of Block Copolymer Templated Iron Oxide Nanoparticles Using Conventional Magnetometry and Neutron Scattering” P. Akcora, R. M. Briber, P. Kofinas *MRS Fall Meeting 12/03*, Boston MA.

41. “Design and Testing of an All-Solid State Polymer Nanoscale Battery” S. E. Bullock, P. Kofinas *MRS Fall Meeting 12/03*, Boston, MA.

40. “Biomimetic Glucose Recognition Using Molecularly Imprinted Polymer Hydrogels” P. Parmpi, P. Kofinas, *AIChE National Meeting, 11/03*, San Francisco, CA.

39. “Polymeric Anion Exchange Resins For Removal of Nutrient and Toxic Anions from Wastewater” D. R. Kioussis, P. Kofinas *AIChE National Meeting, 11/02*, Indianapolis, IN.

38. “Polymeric Nanoscale All-Solid State Battery” S. E. Bullock, S. R. Ahmed, P. Kofinas *MRS Spring Meeting, 4/02*, San Fransisco, CA.

37. “Molecularly Imprinted Polymer Hydrogels Displaying Isomeric Sugar Biorecognition” P. Parmpi, P. Kofinas *MRS Spring Meeting, 4/02*, San Francisco, CA.

36. “Synthesis and Characterization of Optically Transparent Ferromagnetic Polymer-Cobalt Oxide Nanocomposites” S.R. Ahmed, S.E. Bullock P. Kofinas *MRS Spring Meeting, 4/02*, San Francisco, CA.

35. “An Investigation on the Influence of Block Ratio on the Magentic Properties and Hyperfine Structure of $CoFe_20_4$ Magnetic Nanoparticles Within Block Copolymer Templates” S. R. Ahmed, R. Ramesh, S. B. Ogale, G. C. Papaefthymiou, P. Kofinas *MRS Spring Meeting, 4/02*, San Francisco, CA.

34. “Synthesis & Characterization of Piezoelectric ZnO Nanostructures. Integration with Si Processing” A. V. Cresce, H. A. Ali, A. A. Iliadis, P. Kofinas *MRS Spring Meeting, 4/02*, San Francisco, CA.

33. “Properties of self-assembled ZnO nanostructures on Si and SiO_2 wafers”, H. Afroz Ali, A. V. Cresce, A. A. Iliadis, P. Kofinas, U. Lee. *International Semiconductor Device Research Symposium 12/01*, Washington DC.

32. “Magnetic and Optical Properties of Cobalt Oxide Nanoclusters Within Block Copolymer Templates”, S. R. Ahmed, P. Kofinas. *AIChE Annual Meeting 11/01*, Reno, NV.

31. “Magnetic Properties and Hyperfine Structure of $CoFe_20_4$ Nanoclusters Within Block Copolymer Templates”, S. R. Ahmed, P. Kofinas. *AIChE Annual Meeting 11/01*, Reno, NV.

30. “Self-Assembled ZnO Nanostructures Within a Diblock Copolymer Matrix on SiO_2 Surfaces”, A. A. Iliadis, H.A. Ali, R. F. Mulligan, U. Lee, and P. Kofinas. *Electronic Materials Conference 6/01,* Notre Dame, IN.

29. “Polymeric Nanoscale Batteries” S. F. Bullock, and P. Kofinas.
MRS Meeting 12/00, Boston, MA.

28. “Synthesis of Metal-Oxide Nanostructures in a Diblock Copolymer Matrix and Integration onto Semiconductor Surfaces” R. Mulligan, A.A. Iliadis, U. Lee, and P. Kofinas. *MRS Meeting 12/00*, Boston, MA.

27. “Microstructure and Magnetic Properties of $CoFe_2O_4$ Nanoclusters Within Block Copolymers” S. R. Ahmed, and P. Kofinas. *MRS Fall Meeting 12/00*, Boston, MA.

26. “Pollutant Anion Removal and Recovery from Wastewater by Polymer Hydrogels in Batch and Continuous-Flow Reactors” D. R. Kioussis, and P. Kofinas. *AIChE Meeting 11/00*, Los Angeles, CA.

25. “Isomerically Specific Molecularly Imprinted Polymers for Glucose” P. Kofinas, W. W. Wizeman. *AIChE Annual Meeting 11/00*, Los Angeles, CA.

24. “Characterization of Polymeric Hydrogel Network Topography” D. R. Kioussis, and P. Kofinas. *AIChE Annual Meeting 11/00*, Los Angeles, CA.

23. “Glucose Specific Polymeric Molecular Imprints” W. W. Wizeman, and P. Kofinas. *ACS Annual Meeting 8/00*, Washington DC.

22. “Selective Anion Sorption and Recovery from Wastewater by Polyelectrolyte Hydrogels” D.R. Kioussis, and P. Kofinas. *ACS Annual Meeting 8/00*, Washington DC.

21. “Synthesis and Characterization of ZnO Nanoparticles Within Diblock Copolymer Templates” R. F. Mulligan, A. A. Iliadis, and P. Kofinas.
*ACS Annual Meeting 8/0*0, Washington DC.

20. “Synthesis and characterization of block copolymer-$CoFe_2O_4$ nanoclusters: Parameters influencing the magnetic properties of the nanocomposite” S.R. Ahmed, and P. Kofinas.
ACS Meeting 8/00, Washington DC.

19. “Ammonium Perchlorate Binding Polymeric Hydrogels for Wastewater Remediation” D. F. Smith, D. R. Kioussis, and P. Kofinas. *AIChE Annual Meeting 11/99*, Dallas TX.
18. “Structure, Thermal and Mechanical Properties of Polycarbonate Blends” J. R. Blackwood, and P. Kofinas. *AIChE Annual Meeting 11/99*, Dallas TX.

17. “Selective Removal and Recovery of Nutrient Anions from Wastewater in a Continuous Fixed-Bed Process” D. R. Kioussis, and P. Kofinas. *AIChE Annual Meeting 11/99*, Dallas TX.

16. “Nanoporous Gas Transport in Semicrystalline Block Copolymers” Peter Kofinas , Peter L. Drzal, Sufi R. Ahmed, *MRS Spring Meeting 4/99*, San Francisco, CA.

15. “Magnetic Properties of Fe_2O_3 and $CoFe_2O_4$ Nanoclusters Within Block Copolymer Templates” Sufi R. Ahmed, and P. Kofinas. *MRS Spring Meeting 4/99*, San Francisco, CA.

14. “Aquaculture Wastewater Remediation Using Anion Binding Polymeric Hydrogels” D.R. Kioussis, F.W. Wheaton, and P. Kofinas *Aquaculture America 1/99*, Tampa, FL

13. “Anion Binding Polymeric Hydrogels for Wastewater Remediation” D.R. Kioussis, and P. Kofinas *AIChE Annual Meeting 11/98*, Miami FL.

12. “Orientation Texture and Gas Transport in Semicrystalline Block Copolymer Blends” P. Kofinas *ACS Rubber Division Meeting Invited Talk 9/98*, Nashville, TN.

11. “SAXS Studies of the Transverse Orientation Texture in Plane Strain Compression of Semicrystalline Triblock Copolymers” P. Kofinas, P.L. Drzal.
ACS Annual Meeting 8/98, Boston MA.

10. “Phosphate Binding Polymeric Hydrogels For Aquaculture Wastewater Treatment” D. R. Kioussis, F. W. Wheaton, and P. Kofinas.
World Aquaculture Society Meeting 2/98, Las Vegas NV.

9. “Crystallization Within Confined E/EP/E Triblock Copolymer Morphologies” P.L. Drzal, J.D. Barnes, and P. Kofinas. *MRS Fall Meeting 12/97*, Boston, MA.

8. “Gas Transport in Microporous Semicrystalline E/EP/E Triblock Copolymer Membranes” P. L. Drzal and P. Kofinas. *AIChE National Meeting 11/97*, Los Angeles, CA.

7. “Characterization of Network Morphology and Measurement of Phosphate Diffusion in Pharmaceutical Polymeric Hydrogels” ^P. Kofinas, and R.E. Cohen.
*MRS Meeting 12/9*6, Boston, MA.

6. “Characterization of Gels for Pharmaceutical Applications” ^P. Kofinas and R. E. Cohen.
AIChE National Meeting 11/96, Chicago, IL.

5. “Melt Processing of Semicrystalline Block Copolymers Near the Order-Disorder Transition” P. Kofinas, and R. E. Cohen. *AIChE National Meeting 11/94*, San Francisco, CA.

4. “Shear Induced Morphology of Semicrystalline Diblock and Triblock Copolymers” P. Kofinas, and R. E. Cohen. *MRS Fall Meeting 12/93*, Boston, MA.

3. “Morphology and Gas Permeability of E / EP Semicrystalline Diblock Copolymers” P. Kofinas, and R. E. Cohen. *AIChE National Meeting 11/93*, St. Louis, MO.
2. “Self-Assembly in Branched Liquid Crystalline Polymers” C. W. Lantman, D. Nerger, D. A. Wicks, A. Karbach, P. Kofinas, S. K. Starry. *ACS Annual Meeting 1990*, Atlanta, GA.

1. “SANS Studies of the Configurations of Single Chains in Heterogeneous Block Copolymers”, C.V. Berney, P.L. Cheng, P. Kofinas, and R.E. Cohen. *MRS Fall Meeting 12/87*, Boston, MA.

III.E. Sponsored Research

III.E.1. Grants

Asian Office of Aerospace Research and Development
$160,000
Kofinas (PI)
Novel multi-ferroic nanoparticle-based stretchable composite metamaterials with enhanced magneto dielectric performance
06/01/2017-05/30/2020

National Institutes of Health R01 EB019963.
Direct Deposition of Polymer Fibers for Use as a Surgical Sealant
$1,456,176
03/16-12/20
50% Kofinas share, Kofinas PI
Anthony Sandler, Childrens National Medical Center, Co-PI

Asian Office of Aerospace Research and Development (AOARD)
Investigations of magnetodielectric properties of multi-ferroic nanoparticle composite metamaterials
$150,000
09/04/2015-03/28/2017
50% Kofinas Share, Kofinas Co-PI
Yuanzhe Piao, Seoul National University, Seoul Korea, PI

U.S. Government Intelligence Community 201414082800003
Safe, High-Energy Density, Solid Lithium Batteries
$258,908
09/2014-09/2016
100% Share, Kofinas PI

Leidos Biomedical Research, Inc. 15X084
At Home and Bedside Blood Ammonia Meter and Aminoacid Sensor
$139,302
06/16/2015 – 06/15/2016
100% Share, Kofinas PI

Alfred P. Sloan Foundation
Clark School of Engineering Program for Exceptional Mentoring
$60,000
07/01/14-06/30/17
10% Share, Kofinas Co-PI, I. Lloyd PI

National Science Foundation CBET1157590
Safe, High-Performance, Polymer Electrolyte for Lithium Batteries
$274,447
05/15/2012 - 04/30/2016
100% Share, Kofinas PI

National Institutes of Health (NCATS)

Point of Care Diagnostics for Hyperammonemia and Aminoacidopathies
$163,919
09/12-08/14
100% Share, Kofinas PI

Asian Office of Aerospace Research and Development
Multi-Ferroic Polymer Nanoparticle Composites for Next Generation Metamaterials
$80,000
06/12-05/15
100% Share, Kofinas PI

National Science Foundation
MRI: Acquisition of a Small Angle X-Ray Scattering System for the Characterization of Nanoscale Structures
$345,800
09/12-08/14
20% Share, Kofinas Co-PI, R.M. Briber PI

Air Force Office of Scientific Research
Low Loss Polymer Nanoparticle Composites for RF Applications
$750,000
06/09-08/14
100% Share, Kofinas PI

Edgewood Chemical Biological Center US Army
Biotic-Abiotic Interfaces within a Nanostructured Polymer Matrix Platform: Towards a Completely Abiotic System
$130,000
03/10-04/13
100% Share, Kofinas PI

UMCP-UMB Seed Grant
Synthetic Polymer Functional Hydrogel for Hemorrhage Control
$75,000
08/12-07/13
50% Share, Kofinas PI

Army Research Lab
Safer Polymer Electrolytes for Lithium Batteries
$140,000
09/11-08/12
100% Share, Kofinas PI

John Hendricks Foundation
Polymer Electrolytes for All-Solid Batteries
$200,000
12/08-12/12
100% Share, Kofinas PI

National Science Foundation
Blood Coagulation Inducing Synthetic Polymer Hydrogel

$100,000
09/10-9/12
100% Share, Kofinas PI

Steven Grant
Hemostatic Polymer Research Gift
$32,000
07/10-08/11
100% Share, Kofinas PI

National Science Foundation
Nanostructured Colorimetric Polymer for Pathogen Detection
$120,000
08/09-7/10
100% Share, Kofinas PI

Foligo Therapeutics
Polymer Hydrogel For Gene Therapy
$90,000
05/10-04/11
100% Share, Kofinas PI

National Science Foundation
Self-Assembled Polymer Electrolyte Nanoarchitectures for Flexible Batteries
$252,000
07/07-06/10
100% Share, Kofinas PI

United States Department of Agriculture
Molecular Imprinted Polymers for Plant and Insect Virus Recognition
$420,000
09/05-08/09
60% Share, Kofinas PI, W. Bentley, J. Culver Co-PI's

UMCP/UMB Seed Funds
Molecular imprinted polymer coatings to enhance the biocompatibility of artificial lungs
$75,294
07/07-10/08
50% Share, Kofinas PI, B. Griffith, T. Snyder Co-PIs

University of Maryland Energy Research Center
Integration of Nano-architectured Electrocatalyst with PEM Electrolytes for CO-Tolerant PEMFC's
$80,000
07/07-10/08
50% share, Kofinas Co-PI, G. Jackson PI

University of Maryland Energy Research Center
Novel Polymer Nanocomposites for Thermoelectric Energy Conversion
07/07-10/08
$55,000

50% share, Kofinas PI, B. Yang Co-PI

National Science Foundation
A novel approach to a biocompatible antibody-antigen recognition system using antigen imprinted polymers
$36,000
09/06-02/08
100% share, Kofinas PI

Air Force Office of Scientific Research
Block Copolymer Self-Assembled Nanoarchitectures for RF Applications
$366,955
12/05-11/08
100% share, Kofinas PI

National Science Foundation
Magnetic Oxide Nanoparticles Templated By the Self-Assembly of Block Copolymers
$293,744
10/04-09/08
100% share, Kofinas PI

United States Department of Agriculture
Virus Recognition Using Antibody Sensor Arrays on Self-Assembled Nanoscale Block Copolymer Patterns
$157,000
01/05-12/07
100% share, Kofinas PI

National Science Foundation
Isomeric Sugar Recognition Using Molecularly Imprinted Polymer Hydrogels
$268,721
04/03 - 03/07
100% share, Kofinas PI

National Science Foundation
Block Copolymer Self-Assembled Nanoarchitectures for Flexible, High Energy Density Supercapacitors
$150,000
10/04-09/06
100% share, Kofinas PI

National Science Foundation
Virus Recognition Using Self-Assembled Nanoscale Block Copolymer Patterns
$105,000
09/03-08/05
100% Share, Kofinas PI

Air Force Office of Scientific Research
Block Copolymer Magnetic Nanoarchitectures for RF Applications
$25,000
04/05-11/05

100% share, Kofinas PI

National Science Foundation
Toxic and Nutrient Pollution Prevention Using Anion Binding Polymer Hydrogels
$238,250
09/01 - 08/05
100% share, Kofinas PI

Small Smart Systems Center U. Maryland
Self-Assembled Block Copolymer Metal-Oxide Nanostructures for Sound Sensor Imaging Technology
$20,000
12/02 - 12/03
100% share, Kofinas PI

National Science Foundation
Self-Assembled Block Copolymer Metal-Oxide Nanostructures for Sound Sensor Imaging Technology
$549,259
09/99 -01/04
50% share, Kofinas Co-PI. PI A. Iliadis ECE

Office of Naval Research
Polymeric Nanoscale Batteries
$270,343
10/99 - 09/03
100% share, Kofinas PI

U. Maryland MRSEC Seed Project
Magnetic Oxide Nanostructures within Block Copolymer Templates
$170,000
09/00 - 08/03
50% share, Kofinas PI, Co-PI R. Briber ENMA

National Science Foundation CAREER Award
Functional Nanostructures of Core-Shell Metal Oxides Within ABC Triblock Copolymer Template
$315,000
03/99 - 09/03
100% share, Kofinas PI

Small Smart Systems Center
Self-Assembled Block Copolymer Metal-Oxide Nanostructures for Sound Sensor Imaging Technology
$75,000
06/99 - 05/01
50% share, Kofinas PI, Co-PI Agis Iliadis ECE

Maryland Agriculture Experiment Station
Anion Binding Polymeric Hydrogels For Wastewater Remediation
$50,000

07/98 - 06/00
100% share, Kofinas PI

National Science Foundation
Nanoporous Semicrystalline Block Copolymer Blends for Gas Transport Applications
$50,000
08/98 - 07/99
100% share, Kofinas PI

Naval Surface Warfare Center Indian Head MD (EG & G)
Ammonium Perchlorate Binding Polymeric Hydrogels for Wastewater Remediation
$14,800
02/98 - 05/98
100% share, Kofinas PI

U. Maryland MRSEC National Science Foundation
Synthesis of Block Copolymer Magnetic Nanoclusters
$37,000
08/97 - 07/98
100% share, Kofinas PI

Maryland Sea Grant
Phosphate Binding Hydrogels for Aquaculture Wastewater Treatment
$10,000
08/97 - 07/98
100% share, Kofinas PI

National Institute of Standards and Technology
SURF: Undergraduate Research Scholarship
$13,200
06/98 - 08/99
100% share, Kofinas PI

U. Maryland
Revisions to Core Course ENES 230
$6,000
07/98 - 08/98
100% share, Kofinas PI

III.F. Patents

III.F.1. Device

Patents Issued

"Solution Blow Spun Polymer Fibers, Polymer Blends Therefor and Methods of Use Thereof"
Adam Behrens, Peter Kofinas, Michael Sikorski, Anthony Sandler, Priya Srinivasan
International Publication No. WO 2015/160706
PCT International Application No. PCT/US15/25576
Issued October 22, 2015

"Polymer Solid Electrolyte For Flexible Batteries"
P. Kofinas, Ayan Ghosh
US Patent No 9,252,456. Issued February 2, 2016

"Color Changing Polymer Films for Detecting Chemical and Biological Targets"
P. Kofinas, Omar Ayyub, Jennifer Sekowski, Ta-I Yang
US Patent No. 9,115,240. Issued August 25, 2015

"Imprinted Polymeric Materials for Binding Various Targets Such as Viruses"
P. Kofinas, Daniel Janiak
US Patent No 8,138,289. Issued March 20, 2012
Licensed to Raptor Detection Technologies

"Nanoscale Solid-State Polymeric Battery System."
P. Kofinas, Steven Bullock
US Patent 7,063,918. Issued June 20, 2006

"Controlled Room Temperature Synthesis of Magnetic Metal Oxide Nanoclusters Within a Diblock Copolymer Matrix" P. Kofinas, Sufi R. Ahmed
US Patent No 6,991,741 B2. Issued January 31, 2006

Patent Applications Filed

"Polymer Blends with Improved Performance in Health Care Applications"
U.S. Provisional Application No.: 62/816,568
Filing Date: March 11, 2019
Inventors: John Daristotle, Shadden Zaki, Peter Kofinas, Anthony Sandler, Lung Lau, Leopoldo Torres

"High Performance Air Stable Solid Polymer Electrolyte"
U.S. Patent Application No.: 16/241,913
Filing Date: January 7, 2019
Matthew D. Widstrom; Peter Kofinas; Arthur V. Cresce; and Kang XU

"Nanostructured Magneto-dielectrics for Radio Frequency Applications"
Mert Vural, Peter Kofinas
US. Provisional Application No. 62/084367, filed November 25, 2014

"Device and Methods of Using Device for Detection of Hyperammonemia"
Omar Ayyub, Adam Behrens, P. Kofinas, Marshal Summar, Juan Luque-Cabrera, Gary Cunningham, Juan Jose Marugan, Anton Simeonov
International Patent Application Number PCT/US2014/053756, filed September 2, 2014

"Device and Methods of Using Device for Detection of Aminoacidopathies"
Omar Ayyub, Adam Behrens, P. Kofinas, Marshal Summar, Juan Luque-Cabrera, Gary Cunningham, Juan Jose Marugan, Anton Simeonov
International Patent Application Number PCT/US13/65548
Filed October 17, 2013

"Blood Coagulation-Inducing Polymer Hydrogel"
Brendan Casey, P. Kofinas, Adam Behrens, Bartley Griffith
US Patent Application PCT US2009/063049
Filed May 3, 2011

"Lithiated Block Copolymer with Ionic Liquid for Lithium Batteries"
Aaron Fisher, Mian Khalid, P. Kofinas
University of Maryland Invention Disclosure PS-2012-103 (filed 9/11/2012)

"Solid Polymer Electrolyte for Safer Lithium Batteries"
Aaron Fisher, P. Kofinas
University of Maryland Invention Disclosure PS-2011-007 (filed 2/1/2011)

"Improved Polymer Vector for Gene Delivery"
Irene Bacalocostantis, P. Kofinas
US Provisional Patent application 61/309080 (filed 3/1/2010)

"Nanostructured Colorimetric Coating for Pathogen Detection"
P. Kofinas, Daniel S. Janiak, Ta-I Yang LS-2008-022
US Provisional Patent application Serial 61/032448 filed 2/29/2008

"Polymer Sensor for Virus Detection"
P. Kofinas, Angela Li-Hui Fu
US Provisional Patent application Serial No 61/163,963

IV. Teaching, Mentoring and Advising

IV.A. Courses Taught

- "Design and Processing of Polymers for Biomedical Devices" (CHBE 457,Enrollment=30, 2018,2019)
- "Biomaterials" (BIOE 453 Enrollment = 80) (2015, 2016, 2017)
- "Introduction to Engineering Design" (ENES 100. Enrollment=50) (2006-2014)
- "Biology for Engineers Laboratory" Polymer lab module (BIOE 121 Enrollment=23, 2007)
- "Nanotechnology: Applications and Societal Implications" (HONR 239X. Enrollment=20)
- "Chemical Engineering Thermodynamics" (ENCH 300. Enrollment = 30)
- "Polymers, Biopolymers and their Application in Nano- and Bio-technology" (ENCH 490, ENMA 495, ENCH 648P, BIOE 689P, ENMA 698K, Enrollment = 27)
- "Introduction to Polymer Science and Engineering" (ENCH 490, ENMA 495. Enrollment = 15)
- "Processing and Engineering of Polymers" (ENCH 496, ENMA 496. Enrollment = 15)

IV.B. Advising: Research

IV.B.1. Undergraduate

Undergraduate students who have conducted research in Kofinas Lab (82 total):

- Bioengineering Undergraduates (21 total):

Michael Ibrahim,	Mian Khalid,	Mary Natoli	Siri Jammula,
Addison Goodley	Laith Abu-Taleb	David Blumenstyk	Esmaeel Paryavi
Michael Kang	Kathleen Farhang	Omar Ayyub,	Rachel Emmel
Kelsey Harrison	Vasudha Kowtha	Michael Sikorski	Dalton Chasser
Emmanuel D. Tito	Metecan Erdi	Darya Goudarzi	Havisha Garimella
Nealyn Jahangir			

- Chemical Engineering Undergraduates (34 total):

Robert LaPointe	Eric Reichelt	Jesse Matthews
Massi Djouini	Christopher Louzon	Chidera Daniella
Albert Djoum	Bianca Meinhardt	Daniel Venooker
Adam M. Behrens	Rene Brown	Matthew J. Getz
Samuel J. Lopez	Lioudmilla Legkodimova	Benjamin L. Lebron
Jiayan Li	George K. Ngatha	Ayodeji O. Ibidapo
Camaro Nurimba	Alicia M Tucker	Bernard I. Onyenemezu
Nishant Merchant	Jissu R. Abraham	Sakirat Bello
Luke N. Georgalas	Michael F. Jerla	Mohamad O. Makhmalbaf
Ankit R. Patel,	Daniel F. Smith	Joshua Silverstein
Dimitris J. Tsilikis	Wilkins Njinguet	Abdelrahman Aboelata
Bianca Meinhardt		

- Materials Science Undergraduates (11 total):

Shadden Zaki	Benjamin Shefter	Takeisa Rowlett	Michael M. Dollinger
Matthew Widstrom,	Santiago Miret	Brian Heligman	Joseph Ayoub
Aristotelis Zografos	Seyeon Kim	Shadden Zaki	

- Summer REU students (non UMCP, 16 total):

Sabeeha Chowdhury,	Sergey Denisovich,	Emily Chang,	Jana Rauzin
Kyle Boone,	Erin Heermance	Michael Urban,	Erica Snow

Angela Mariani	Rachel Emmel	Steven Csernica	Tibra Wheeler
Fauziah Rahma Zakaria	Shadden Zaki	Artemis Margaronis	Alex Mitelopoulos

IV.B.2. Master's

M.S. Students Who Have Graduated with last known placement (8 Total):

- Joseph W. Hunter, MS. Thesis, 05/18, Bioengineering
- Kankindi Rwego, M.S. Thesis 12/13, Bioengineering, Scrudder, Bass, Quillian, Horlock, Taylor & Lazarus, LLP, Atlanta GA.
- Paraskevi Parmpi, M.S. Thesis 9/02, Materials Sci. & Eng., now at Dupont, Willmington DE.
- Robert F. Mulligan, M.S. Thesis 8/01, Materials Sci. & Eng., now at Now at Arsenal Medical, Boston, MA.
- William W. Wizeman M.S. Thesis 8/00, Materials Sci. & Eng., Now at Asthmatx, Inc., Mountain View, CA.
- Dimitri R. Kioussis, M.S. Thesis 6/98, Chemical Eng., continued as PhD student
- P. L. Drzal, M.S. Thesis 6/98, Materials Sci. & Eng., Now at Protection Engineering, Pittsburgh, PA.
- Ke Yu, MS Non-Thesis 6/04, Materials Sci. & Eng., *Wall Street*

Kofinas advising activities serving as member of MS Thesis Committees

- Heather St. Pierre, MS 2005 (T. Barbari, Advisor)
- Kai-Chi Lai, MS 2004 (R. Briber, Advisor)
- Alessi, Michael, MS 2002 (S. Greer Advisor)
- Hongxia Feng, MS 2002 (M. Al-Sheikhly, Advisor)
- Chia-Hsiang Huang MS 2001 (T. Barbari ,Advisor)
- Timir Misra, MS, 1998 (L. Martinez-Miranda, Advisor)

IV.B.3. Doctoral

PhD. Students Who Have Graduated with last known placement (21 Total):

- John L. Daristotle, PhD 12/19, Bioengineering, PostDoc Tufts U.
- Leopoldo Torres Jr., PhD 8/19, Bioengineering, American Dental Association
- Mert Vural, PhD 1/16, Materials Science and Engineering, Postdoc at Penn State
- Adam Behrens, PhD 8/15, Bioengineering, CEO, Cambridge Crops
- Omar Ayyub, PhD 8/14, Bioengineering, National Children's Medical Center, Washington DC.
- Angela Fu, PhD 9/13, Bioengineering, Accenture, Silver Spring MD.
- Aaron Fisher, PhD 12/12, Chemical & Biomolecular Engineering, now at Energetics Inc., Columbia, MD.
- Joshua Silverstein, PhD 6/12, Bioengineering, now at FDA, Silver Spring MD.
- Angela Mariani, PhD 6/12, Bioengineering, now at FDA, Silver Spring MD.
- Irene Bacalocostantis, PhD 6/12, Bioengineering, Stryker Corporation, NY, NY.
- Brendan Casey, PhD 12/10, Bioengineering, 3M, Minneapolis MN.
- Ayan Gosh, PhD 12/09, Chemical Eng., now at Intel Corp, Portland OR.
- Daniel Janiak, PhD 05/09, Materials Science & Eng., now at Draper Fisher Jurvetson, Houston, TX.
- Ta-I Yang, PhD 12/08, Chemical Eng., now Assistant Prof. Chung Yuan Christian University, Taiwan.

- Sanem Argin, PhD 12/08, Nutrition & Food Sci., now Assistant Prof., Yeditepe University, Istanbul Turkey.
- Linden D. Bolisay, PhD 08/07, Chemical Eng., now at L'Garde Inc., Tustin CA.
- Arthur V. Cresce, PhD 01/07 Materials Science & Eng., now at Army Research Lab, Adelphi, MD.
- Pinar Akcora, PhD 08/05, Chemical Eng., now Assistant Prof., Stevens Institute of Technology.
- Steven F. Bullock, PhD 12/03, Materials Sci. & Eng., now at Lockheed Martin, Palmdale CA.
- Sufi R. Ahmed, PhD 12/02, Materials Sci. & Eng., now at Intel Corp., Portland OR.
- Dimitri R. Kioussis, Ph.D. 12/00, Chemical Eng., Sr. Manager, EUV Lithography Development at ASML / Cymer, San Diego, CA

Current Ph.D. Students:
- Matthew Widstrom, PhD candidate, Materials Science & Engr
- Kyle Ludwig, PhD candidate, Chemical and Biomolecular Engineering
- Rebecca Fedderwitz, PhD candidate, Materials Science and Engineering
- Michael Fechtman, PhD candidate, Materials Science and Engineering
- Metecan Erdi, PhD candidate, Chemical and Biomolecular Engineering

Kofinas advising activities serving as member of PhD. Dissertation Committees
- Anjana Jeyaram, PhD 2019 (S. Jay, Advisor)
- Matthew Thum, PhD 2019 (Daniel Falvey, Advisor)
- George Banis, PhD 2019 (Reza Ghodssi, Advisor)
- Hieu Nguyen, PhD 2019 (I. White, Advisor)
- Divya Patel, PhD 2019 (S. Jay, Advisor)
- Lisa Tostanoski, PhD 2017 (C. Jewell, Advisor)
- James Andorko, PhD 2017 (C. Jewell, Advisor)
- Darryl Sampey, PhD 2016 (W.E. Bentley, Advisor)
- Zois Tsinas, PhD 2016 (M. Al-Sheikhly, Advisor)
- Rasa Ghaffarian, PhD 2015 (S. Muro, Advisor)
- Elliot Bartis, PhD 2015 (G. Oehrlein, Advisor)
- Amy Lee, PhD 2015 (J. Seog, Advisor)
- Daniel Serrano, PhD 2014 (S. Muro, Advisor)
- Juan Ceballos, PhD 2013 (A. Bar-Cohen, Advisor)
- Ian Gifford, PhD 2013 (M. Al-Sheikhly, Advisor)
- Soroush Yadzi, PhD 2013 (I. White, Advisor)
- Wei Wen Yu, PhD 2013 (I. White, Advisor)
- Yaolin Liu, PhD 2013 (B. Mi, Advisor)
- Kathleen Malinowski, PhD 2012 (W. D'Souza, Advisor)
- Hsuan-Chen Wu, PhD 2011 (W. Bentley, Advisor)
- Sang Hak Shin, PhD 2011 (R. Briber, Advisor)
- Christopher Byrd, PhD 2011 (W. Bentley, Advisor)
- Ling Ma, PhD 2011 (S. Shamma, Advisor)
- Marina Chumakov, PhD 2010 (M. Al-Sheikhly, Advisor)
- Steven Yang, PhD 2010 (J. Bernstein, Advisor)
- Robert Bruce, PhD 2010 (G. Oehrlein, Advisor)
- Liyu Yang, PhD 2009 (J. Bernstein, Advisor)
- Wonjoo Lee, PhD 2009 (R. Briber, Advisor)

- Michael Kasser, PhD 2009 (M. Al-Sheikhly, Advisor)
- Neil Campell, PhD 2008 (S.Rokita, Advisor)
- Xin Zhang, PhD 2008 (R. Briber, Advisor)
- Diana Yoon, PhD 2008 (J. Fisher, Advisor)
- Bani Cipriano, PhD 2007 (S. Raghavan, Advisor)
- Chen-Yu Tsao, PhD 2007 (W. Bentley, Advisor)
- Matthew Harney, PhD 2006 (L. Sita, Advisor)
- Emily Weinert, PhD 2006 (S. Rokita, Advisor)
- Inuka Dissanayake, PhD 2006 (P. Dimitrakopoulos, Advisor)
- Chong Yung, PhD 2006, (Barbari/Bentley, Advisor)
- Oluwatosin Ogunsola, PhD 2006 (S. Ehrman, Advisor)
- Sheng Li, PhD 2006 (R. Ghodssi, Advisor)
- Hongxia Feng, PhD 2005 (R. Briber, Advisor)
- Raj Bahadur, PhD 2005 (A. Bar-Cohen, Advisor)
- Thomas M. Weathers, PhD 2005 (S. Rokita, Advisor)
- Marc Garland, PhD 2004 (M Al-Sheikhly, Advisor)
- Stefania Korontzi, PhD 2004 (C. Justice, Advisor)
- Chaiwat Engtrakul, PhD 2003 (L. Sita Advisor)
- Seok Il Yun, PhD 2002 (R. Briber, Advisor)
- Kevin McDermott, PhD 2002 (R. Briber, Advisor)
- Yufei Hu, PhD 2002 (L. Martinez-Miranda, Advisor)
- Pierpoint Sujita, PhD 2002 (M. Al-Sheikhly Advisor)
- David Green, PhD 2001 (M. Harris Advisor)
- Keita F. Broadwater, PhD 2001 (P. Mead Advisor)
- Ursula Perez-Salas, PhD, 2000 (R. Briber, Advisor)
- Sangwook Choi, PhD, 1999 (R. Briber, Advisor)
- Li-Te Ho, PhD, 1998 (R. Briber, Advisor)

IV.C. Advising: Other than Research Direction

IV.C.1. Undergraduate

- Gemstone Team Mentor, project on hemostatic hydrogels (9/2012 – 2015)
- Advisor to BIOE Undergraduate Students (9/2007- present)
- Advisor to ASPIRE Undergraduate Scholars (9/1997 - present)
- Gemstone Team Mentor, project on efficient use of human generated energy (9/06- 5/09)
- Mentor to 2 Engineering “INVENTIS” scholars (9/2005 – 9/2006)
- Advisor to Chemical Engineering Undergraduate Students (9/1997 – 7/2006)
- Advisor to Materials Science and Engineering Undergraduate Students (9/99 – 9/01)

IV.C.2. Doctorate

- Graduate Program Director, Fischell Department of Bioengineering (9/06- 9/12)
- “ESTEEM” High School Student Mentor, Office of Minority Education (11/1999 - 4/2000)

IV.C.3. Other Advising Activities

- Advisor to Letters & Sciences Undecided Freshmen (9/1997 - 9/1999)
- Office of Multi Ethnic Education Faculty Mentor (1999)

V. Service and Outreach

V.A. Editorships, Editorial Boards, and Reviewing Activities

V.A.1. Reviewing Activities for Journals and Presses

- Reviewer of multiple manuscripts annually for the following journals:

Macromolecules, Polymer, Biomacromolecules, Biomaterials, Journal of the Electrochemical Society, Journal of Power Sources, Langmuir, Journal of Polymer Science Part B: Polymer Physics, Journal of Physical Chemistry

- Reviewer of 1-2 manuscripts in per years for the following journals:

Acta Materialia, Acta Biomaterialia, Chemistry of Materials, Computational Polymer Science, Polymer Journal, Polymer Engineering and Science, Journal of Applied Polymer Science, Journal of Magnetism and Magnetic Materials, Journal of Nanoparticle Research

V.A.2. Reviewing Activities for Agencies and Foundations

Have served on proposal review panels ~ once per year for each of the following agencies:

- National Institutes of Health
- National Science Foundation
- United States Department of Agriculture
- Petroleum Research Fund
- American Society for Engineering Education

V.A.3. Other

- Reviewer for Encyclopedia of Polymer Science and Technology 2001 (J. Wiley & Sons)

V.B. Committees, Professional & Campus Service

V.B.1. Campus Service – Department

- Associate Chair, and Director of Graduate Studies 2006 – 2012
    - Registration, advising of graduate students, tracking of student progress
    - Graduate admissions
    - Organized graduate student recruiting and open house programs for admitted students
    - Conflict resolution – mediated student-student and student-faculty conflicts as they arose in the context of both teaching and research
    - Review Graduate Curriculum
    - Develop Bioengineering Graduate Program Academic Policies
    - Assign Spring and Fall Course Graduate Teaching and Graduate Student Assistantships
    - Administer Research Aptitude Exam for graduate students
    - Promote and build partnerships of graduate program with the FDA and NIH
- Department Appointment Promotion and Tenure (APT) committee, Chair, 2007-2012
    - Prepared APT Dossiers for candidates in the Fischell Department of Bioengineering
- BIOE Department Representative in Engineering PCC committee 2007-2012
- BIOE Business Director Search, Chair, FY2011
- Bioengineering Department Merit Pay Review Committee 2007
- Member, Search Committee for BIOE Business Staff hire 2006-2007
- Member, Search Committee for ENMA Junior Faculty Search 2006
- Search Committee for Bioengineering Department Faculty Search, Chair, 2005, 2006

- ENCH ABET committee, Chair (4/02 – 5/06)
    - Responsible for collection and assessment of ABET materials from faculty
    - Wrote Departmental ABET accreditation document for 2005 visit
- ENCH Undergraduate Studies Committee (9/01 – 5/06)
- Chair, Search Committee for Joint ENCH/ Bioengineering Faculty Search, 2004-2005
- Member, Search Committee for Joint ENME/ Bioengineering Faculty Search, 2003-2004
- Bioengineering Program Admissions Committee (2002- 2005)
- Chair, Search Committee for Chemical Engineering Business Director Search (10/02 – 12/02)
- ENMA Undergraduate Studies Director (6/00 – 9/01)
- ENMA Undergraduate Curriculum Committee (6/97 – 9/01)
- ENMA Graduate Admissions Committee (8/96 – 9/01)
- ENMA Webpage Maintenance (9/98 – 9/01)
- ENMA University Senate Representative, Educational Affairs Committee (9/98 – 9/00)

V.B.2. Campus Service – College

- Associate Dean for Faculty Affairs and Graduate Studies
    - Manage faculty affairs: Faculty Activities and Workload Reports; merit review process; approval of non-tenure-track academic appointments, sabbaticals, overload requests, Leave Without Pay; training and development; mentoring; policies and review of MOU's
    - Serve as College Equity Officer: charge faculty and staff search committees, approve search and selection plans and hiring proposals, approve payroll appointments at Dean’s level
    - Serve as College Diversity Officer: diversity strategies provide active oversight, coordination, and evaluation of diversity issues. Oversee A. James Clark School of Engineering Diversity Council. Member of campus committees: Maryland Dialogues, Social Justice Committee, Diversity Officers committee
    - Compile and review data for School-related surveys such as US News and ASEE and perform other statistical studies; enrollment, degrees and research expenditures
    - Coordinate APT process and Unit reviews for College and interface with Provost's Office; draft Dean’s letter for all tenured and tenure track appointments and promotions
    - Direct the Future Faculty Program which includes reviewing curriculum, staffing courses and overseeing admissions process
    - Organize recruiting activities for underrepresented students wishing to apply to graduate school
- Graduate Advisory Council, chair since 2012, committee of all department graduate program directors
    - Oversight of faculty, graduate student, and staff internal and external awards (teaching, service and research); this includes establishing contacts, publicizing awards, overseeing the nomination process, coordinating and soliciting materials, and tracking and monitoring the awards
    - Represent College in various functions; fundraising and award events for faculty and students
    - GEM representative: University representative for national fellowship program for underrepresented minority students
    - Graduate student mentoring initiatives
    - Graduate fellowships: created college website, monitor graduate fellowships, allocate graduate school funds to departments, serve as liaison to graduate school
    - Chaired Committee who formulated College Strategic Plan for Graduate Education

- University of Maryland Energy Research Center Steering Committee 1/06 – 9/12
- Graduate Advisory Council, member, 9/06-9/12
  - Formulated and implemented academic policies common to all graduate programs in the School of Engineering.
- Appointment Promotion and Tenure (APT) Committee Member 2004-2005, Vice Chair 2006, Chair 2007, Member 2008-2009, Member 2012)
  - Evaluated APT candidates in the School of Engineering, after they have been voted on at the Department Level, and provided recommendations to the Dean.
- University of Maryland Energy Research Center Search Committee 1/06- 9/07
- Energy Committee 2006
- Committee for Bioengineering Program Director Search (6/02 – 7/02)
- Committee on creation of Bioengineering Program (2001)
- Committee on Junior and Senior Faculty Teaching Awards (1/00 – 6/02)

V.B.3. Campus Service - University

- Committee of Associate Deans of Graduate Education (Graduate School) 9/2012-present
- Committee of Associate Deans for Faculty Affairs (Provost) 9/2013 – present
- Diversity Dialogues (Provost) 1/2016-present
  - University Initiatives on Diversity and Inclusion
- Social Justice Day Committee (Provost) 1/2017-4/2017
- University Senate Plan of Organization Committee (Senate) 9/2013 – 1/2014
- Committee to develop Guidelines on Faculty Academic Load,2014-2015
- Advisory Group on Faculty Sexual Misconduct & Adjudication Procedures 2012/2014
- UMCP-UMB Alliance Committee 2012 Advisory Committee to Provost. Developed one of the strategic alliance report documents on UMCP-UMB interactions.
- Graduate Outcomes Assessment Focus Group 2011
  - Advisory committee to Dean of Graduate School.
  - Developed details of University-wide Graduate Programs assessment plan implementation.
- Academic Planning Advisory Committee (APAC), 2008-2010
  - APAC advises the Provost concerning academic issues with a significant resource implication. APAC's advice is required when academic programs are proposed to be created or eliminated, or when departments or other units are to be created, merged, split, or eliminated. My appointment to this committee coincided with significant state-mandated budget reductions.
- University Major Initiatives Committee on Graduate Education (Provost) 2007
  - Formulation of the University's Strategic Plan for Graduate Education.
- University Tenure Appeals Committee (Provost) 2007
  - Evaluate the Appeal of a Negative Tenure Decision.
- Faculty Advisor, Biomedical Engineering Society (2006-2012)
- Faculty Advisor, Argentine Tango Club (2006 - 2012)
- Faculty Advisor, Hellenic Graduate Student Association (1996 – present)
- First Year Book Committee 2004-2005
- Faculty Advisor, Maryland Strength Sports (2002 – 2005)
- University Nuclear Reactor Safety Committee (1998 - 2011)
- ORAA focus group on electronic research administration (2002)

V.B.4. Other Non-University Committees, Memberships, Panels, etc.

- Biomedical Engineering Society (BMES)
- American Chemical Society (ACS)
- American Society of Chemical Engineers (AIChE)
- Materials Research Society (MRS)

V.B.5. Office and Committee Memberships

- Symposium Organizer, "Design and hierarchical assemblies of nanomaterials" European MRS, Strasbourg France, 05/212017-05/262017.
- Session Chair, 4th International Workshop on Novel Nanomagnetic and Multifunctional Materials Université Pierre et Marie Curie, Paris, France, 07/2016.
- Organizer, 3rd International Workshop on Novel Nanomagnetic and Multifunctional Materials University of Maryland, College Park, MD, USA, 06/2014.
- Symposium Organizer, Mid-Atlantic Regional Meeting American Chemical Society (MARM), College Park, MD 05/11
- Chair, Bioapplications Session, Polymer Networks Group Conference, Larnaca, Cyprus 06/08
- Chair for Polymer Programming (Area 8A), AIChE Annual Conference 2005
- Chair for Polymer Programming (Area 8A), AIChE Annual Conference 2004
- Organizer of 3-Day Molecular Imprinting Symposium during MRS Conference, 12/03
- Vice Chair for Polymer Programming, AIChE 2003
- Chair, Session on Structures and Properties of Polymers, AIChE , Indianapolis, IN, 11/02.
- Chair, Session on Structures and Properties of Polymers, AIChE , Reno, NV, 11/01.
- Chair, Session on Polymer Networks, Gordon Research Conference on Elastomers, 7/01.
- Chair, Session on Structures and Properties of Polymers, AIChE , Los Angeles, CA, 11/00.
- Symposium Organizer, Block Copolymers and Blends, SPE ANTEC, Orlando, FL, 5/00.
- Chair, Session on Structures and Properties of Polymers, AIChE , Miami FL, 11/98.
- Chair, Session on Block Copolymers, ACS meeting, Boston MA, 9/98.
- Chair, Session on Elastomeric Mesophases, Gordon Research Conference on Elastomers, 7/97.

V.C. <u>External Service and Consulting</u>

V.C.1. Community Engagements, Local, State, National, International

- Mentor for J.F. Kennedy High School Seniors, Silver Spring, MD (Linda Johnson, teacher), Internships in Kofinas lab (2010) Dziedzorm Amenumey, (2009) Matauka Ikachana, (2007) Maeva Abouatier, (2005) Rene Brown.
- Francis Scott Key Middle School, Silver Spring, MD, Various polymer demonstrations over 3 years to 7th and 8th grade classes (Ms. Maria Crassas, teacher) Middle school teacher and students performed experiments in Kofinas lab over a period of 2 years (2002-2004)