

Dustin E. Gross
Assistant Professor
Department of Chemistry
Sam Houston State University
P.O. Box 2117
Huntsville, TX 77341
degross@shsu.edu
Ph. (936) 294-4067

Academic Training

UNIVERSITY OF TEXAS AT AUSTIN Doctor of Philosophy, Organic Chemistry, 2009	Austin, TX
UNIVERSITY OF ARIZONA Bachelor of Science, Chemistry, 2003	Tucson, AZ

Summary of Relevant Experience

SAM HOUSTON STATE UNIVERSITY 2018-present Associate Professor, Department of Chemistry 2012-2018 Assistant Professor, Department of Chemistry	Huntsville, TX
UNIVERSITY OF ILLINOIS 2009-2012 Postdoctoral Researcher, Department of Chemistry	Urbana, IL
UNIVERSITY OF TEXAS 2003-2009 Graduate Research Assistant, Department of Chemistry and Biochemistry Teaching Assistant, Department of Chemistry and Biochemistry	Austin, TX
UNIVERSITY OF ARIZONA 1999-2003 Undergraduate Research Assistant, Department of Chemistry Teaching Assistant, Department of Chemistry	Tucson, AZ

Advised Masters Theses

Nguyen, Thao N. Investigation of Diazaborole Formation and Diazaborole-Linked Macrocycles with Ethylhexyl Ester Substituents, M.S. Thesis, Sam Houston State University, Huntsville, TX, 2018.

Rathnayaka Mudiyanse, Chathurika R. Synthesis and Spectroscopic Studies of Benzoxazaboroles, M.S. Thesis, Sam Houston State University, Huntsville, TX, 2018.

- Ekanayake, Dulamini I. Effect of Boron Trifluoride on the Transesterification of Boronate Esters, M.S. Thesis, Sam Houston State University, Huntsville, TX, 2017.
- Abeyasinghe, Janaka P. Diazaboroles: Experimental Investigations of their Dynamic Covalent Nature and Computational Chemistry, M.S. Thesis, Sam Houston State University, Huntsville, TX, 2017.
- Manankandayalage, Chamila P. Synthesis of Diazaborole Based Macrocycles with Pendent Triethylene Glycol (Tg) Groups M.S. Thesis, Sam Houston State University, Huntsville, TX, 2016.
- George, Sobiya. Synthesis and Characterization of Benzoxazaboroles M.S. Thesis, Sam Houston State University, Huntsville, TX, 2016.
- Kombala, Chathuri J. Investigation of Boronate Ester Equilibria Towards Macrocyclic Synthesis. M.S. Thesis, Sam Houston State University, Huntsville, TX, 2015.
- Lokugama, Sanjaya D. Synthesis of Diazaborole Linked Oligomers Using Aryl Boronic Acid Derivatives. M.S. Thesis, Sam Houston State University, Huntsville, TX, 2015.

Advised Undergraduate Theses

- Garcia, Nicholas A. Synthesis and Characterization of bis(Diazaborole)s and an Expanded Ethylhexyl Ester-Based Diazaborole-Linked Macrocyclic (McNair Scholars Thesis), Sam Houston State University, Huntsville, TX, Anticipated Spring 2018.
- Steward, Micaela L. Synthesis and Characterization of *N*-Substituted Diazaboroles (Honor's Thesis), Sam Houston State University, Huntsville, TX, 2017.

Peer Reviewed Publications

39. Yuan, P.; McCracken, J. M.; Gross, D. E.; Braun, P. V; Moore, J. S.; Nuzzo, R. G. "A programmable soft chemo-mechanical actuator exploiting a catalyzed photochemical water-oxidation reaction" *Soft Matter* **2017**, *13*, 7312-7317.
38. Kombala, C. J.; Ekanayake, D. I.; Gross, D. E. "Boron trifluoride facilitated transesterification of dioxaborolanes" *Tetrahedron Lett.* **2017**, *58*, 3782-3786.
37. Wang, C.; Bunes, B. R.; Xu, M.; Wu, N.; Yang, X.; Gross, D. E.; Zang, L. "Interfacial Donor-Acceptor Nanofibril Composites for Selective Alkane Vapor Detection" *ACS Sens.* **2016**, *1*, 552-559.
36. Zhang, Y.; Xu, M.; Bunes, B. R.; Wu, N.; Gross, D. E.; Moore, J. S.; Zang, L. "Oligomer-Coated Carbon Nanotube Chemiresistive Sensors for Selective Detection of Nitroaromatic Explosives" *ACS Appl. Mater. Interfaces* **2015**, *7*, 7471-7475.
35. Bunes, B. R.; Xu, M.; Zhang, Y.; Gross, D. E.; Saha, A.; Jacobs, D. L.; Yang, X.; Moore, J. S.; Zang, L. "Photodoping and Enhanced Visible Light Absorption in Single-Walled Carbon Nanotubes Functionalized with a Wide Band Gap Oligomer" *Adv. Mater.* **2015**, *27*, 162-167.
34. Nienhaus, L.; Gross, D. E.; Xue, Z.; Moore, J. S.; Gruebele, M.; "Energy transfer in a synthetic dendron-based light harvesting system" *J. Photochem. Photobiol., A*, **2014**, *295*, 26-33.

33. Huang, H.; Gross, D. E.; Yang, X.; Moore, J. S.; Zang, L. "One-step Surface Doping of Organic Nanofibers to Achieve High Dark Conductivity and Chemiresistor Sensing of Amines" *ACS Appl. Mater. Interfaces*, **2013**, *5*, 7704-7708.
32. Tahara, K.; Yamamoto, Y.; Gross, D. E.; Kozuma, H.; Arikuma, Y.; Ohta, K.; Koizumi, Y.; Gao, Y.; Shimizu, Y.; Seki, S.; Kamada, K.; Moore, J. S.; Tobe, Y. "Syntheses and Properties of Graphyne Fragments: Trigonally Expanded Dehydrobenzo[12]annulenes" *Chem. Eur. J.* **2013**, *19*, 11251-11260.
31. Yuan, P.; Kuksenok, O.; Gross, D. E.; Balazs, A. C.; Moore, J. S.; Nuzzo, R. G. "UV Patternable Thin Film Chemistry for Shape and Functionally Versatile Self-Oscillating Gels" *Soft Matter* **2013**, *9*, 1231-1243.
30. Li, L.; Che, Y.; Gross, D. E.; Huang, H.; Moore, J. S.; Zang, L. "Temperature-Controlled, Reversible, Nanofiber Assembly from an Amphiphilic Macrocyclic" *ACS Macro Lett.* **2012**, *1*, 1335-1338.
29. Datar, A.; Gross, D. E.; Balakrishnan, K.; Yang, X.; Moore, J. S.; Zang, L. "Ultrafine nanofibers fabricated from an arylene ethynylene macrocyclic molecule using surface assisted self-assembly" *Chem. Commun.* **2012**, 8904-8906.
28. Kim, S. K.; Yeon, Y.; Gross, D. E.; Sessler, J. L. "Hydrofuran Ring Fused Calix[4]pyrrole: Synthesis and Ion Binding Studies" *Supramol. Chem.* **2012**, *24*, 481-486.
27. Gross, D. E.; Discekici, E.;* Moore, J. S. "Macrocyclic Depolymerization of Arylene-Ethynylene Copolymers: A Dynamic Combinatorial Method" *Chem. Commun.* **2012**, 4426-4428.
26. Gross, D. E.; Zang, L.; Moore, J. S. "Arylene Ethynylene Macrocycles: Privileged Shape-Persistent Building Blocks for Organic Materials" *Pure Appl. Chem.* **2012**, *84*, 869-878.
25. Che, Y.; Gross, D. E.; Huang, H.; Yang, D.; Yang, X.; Discekici, E.;* Xue, Z.; Zhao, H.; Moore, J. S.; Zang, L. "Diffusion-Controlled Detection of TNT: Interior Nanoporous Structure and Low HOMO Level of Building Blocks Enhance Selectivity and Sensitivity" *J. Am. Chem. Soc.* **2012**, *134*, 4978-4982.
24. Finke, A. D.; Gross, D. E.; Han, A.;* Moore, J. S. "Engineering Solid-State Morphologies in Carbazole Ethynylene Macrocycles" *J. Am. Chem. Soc.* **2011**, *133*, 14063-14070.
23. Gross, D. E.; Moore, J. S. "Arylene Ethynylene Macrocycles via Depolymerization-Macrocyclization" *Macromolecules* **2011**, *44*, 3685-3687.
22. Kim, S. K.; Gross, D. E.; Cho, D.-G.; Lynch, V. M.; Sessler, J. L. "N-Tosylpyrrolidine Calix[4]pyrrole: Synthesis and Ion Binding Studies" *J. Org. Chem.* **2011**, *76*, 1005-1012. (Featured Article; Cover)
21. Moyer, B. A.; Sloop, F. V. Jr.; Fowler, C. J.; Haverlock, T. J.; Kang, H.-A.; Delmau, L. H.; Bau, D. M.; Hossain, M. A.; Bowman-James, K.; Shriver, J. A.; Bill, N. L.; Gross, D. E.; Marquez, M.; Lynch, V. M.; Sessler, J. L. "Enhanced Liquid-Liquid Anion Exchange Using Macrocyclic Anion Receptors: An Equilibrium Model for Sulfate-Nitrate Exchange Based on Sulfate Binding" *Supramol. Chem.* **2010**, *22*, 653-671.

20. Kim, S. K.; Sessler, J. L.; Gross, D. E.; Lee, C.-H.; Kim, J. S.; Lynch, V. M.; Delmau, L. H.; Hay, B. P. "A Calix[4]arene Strapped Calix[4]pyrrole: An Ion-Pair Receptor Displaying Three Different Cesium Cation Recognition Modes" *J. Am. Chem. Soc.* **2010**, *132*, 5827-5836.
19. Gale, P. A.; Tong, C. C.; Haynes, C. J. E.; Adeosun, O.; Gross, D. E.; Karnas, E.; Sedenberg, E. M.;* Sánchez-Quesada, R.; Sessler, J. L. "Octafluorocalix[4]pyrrole: A Chloride/Bicarbonate Antiport Agent" *J. Am. Chem. Soc.* **2010**, *132*, 3240-3241.
18. Gross, D. E.; Mikkilineni, V.;* Lynch, V. M.; Sessler, J. L. "Bis-Amidopyrrolyl Receptors Based on Anthracene and Carbazole" *Supramol. Chem.* **2010**, *22*, 135-141.
17. Caltagirone, C.; Bill, N. L.; Gross, D. E.; Light, M. E.; Sessler, J. L.; Gale, P. A. "Bis-Cation Salt Complexation by meso-Octamethylcalix[4]pyrrole: Linking Complexes in Solution and in the Solid State" *Org. Biomol. Chem.* **2010**, *8*, 96-99.
16. Gross, D. E.; Yoon, D.-W.; Lynch, V. M.; Lee, C.-H.; Sessler, J. L. "Anion Binding Behavior of Heterocycle-Strapped Calix[4]pyrroles" *J. Incl. Phenom. Macrocycl. Chem.* **2010**, *66*, 81-85.
15. Yoon, D.-W.; Gross, D. E.; Lynch, V. M.; Lee, C.-H.; Bennett, P. C.; Sessler, J. L. "Real-Time Determination of Chloride Anion Concentration in Aqueous-DMSO Using a Pyrrole-Strapped Calixpyrrole Anion Receptor" *Chem. Commun.* **2009**, 1109-1111.
14. Fowler, C. J.; Haverlock, T. J.; Moyer, B. A.; Shriver, J. A.; Gross, D. E.; Marquez, M.; Sessler, J. L.; Hossain, M. A.; Bowman-James, K. "Synergized Anion Exchange for Sulfate Extraction" *J. Am. Chem. Soc.* **2008**, *130*, 14386-14387.
13. Cui, R.; Li, Q.; Gross, D. E.; Meng, X.; Li, B.; Marquez, M.; Yang, R.; Sessler, J. L.; Shao, Y "Anion Transfer at a Micro-Water/1,2-Dichloroethane Interface Facilitated by β -Octafluoro-meso-octamethylcalix[4]pyrrole" *J. Am. Chem. Soc.* **2008**, *130*, 14364-14365.
12. Sessler, J. L.; Kim, S. K.; Gross, D. E.; Lee, C.-H.; Kim, J. S.; Lynch, V. M. "Crown-6-Calix[4]arene Capped Calix[4]pyrrole: An Ion Pair Receptor for Solvent Separated CsF Ions" *J. Am. Chem. Soc.* **2008**, *130*, 13162-13166.
11. Gross, D. E.; Schmidtchen, F. P.; Antonius, W.; Gale, P. A.; Lynch, V. M.; Sessler, J. L. "Cooperative Binding of Calix[4]pyrrole-Anion Complexes and Alkylammonium Cations in Halogenated Solvents" *Chem. Eur. J.* **2008**, *14*, 7822-7827.
10. Nielsen, K. A.; Martín-Gomis, L.; Sarova, G. H.; Sanguinet, L.; Gross, D. E.; Fernández-Lázaro, F.; Stein, P. C.; Levillain, E.; Sessler, J. L.; Guldi, D. M.; Sastre-Santos, Á.; Jeppesen, J. O. "Binding Studies of Tetrathiafulvalene-Calix[4]pyrroles with Electron-Deficient Guests" *Tetrahedron* **2008**, *64*, 8449-8463.
9. Yoon, D.-W.; Gross, D. E.; Lynch, V. M.; Sessler, J. L.; Hay, B. P.; Lee, C.-H. "Benzene-, Pyrrole-, and Furan-Containing Diametrically Strapped Calix[4]pyrroles—An Experimental and Theoretical Study of Hydrogen-Bonding Effects in Chloride Anion Recognition" *Angew. Chem. Int. Ed.* **2008**, *47*, 5038-5042.

8. Martinez-Garcia, H.; Morales, D.; Perez, J.; Coady, D. J.; Bielawski, C. W.; Gross, D. E.; Cuesta, L.; Marquez, M.; Sessler, J. L. "Calix[4]pyrrole as a Promoter of the CuCl-Catalyzed Reaction of Styrene and Chloramine-T" *Organometallics* **2007**, 26, 6511-6514.
7. Cuesta, L.; Gross, D.; Lynch, V. M.; Ou, Z.; Kajonkijya, W.; Ohkubo, K.; Fukuzumi, S.; Kadish, K. M.; Sessler, J. L. "Design and Synthesis of Polymetallic Complexes Based on meso-Calix[4]pyrrole: Platforms for Multielectron Chemistry" *J. Am. Chem. Soc.* **2007**, 129, 11696-11697.
6. Plitt, P.; Gross, D. E.; Lynch, V. M.; Sessler, J. L. "Dipyrrolyl-Functionalized Bipyridine-Based Anion Receptors for Emission-Based Selective Detection of Dihydrogen Phosphate" *Chem. Eur. J.* **2007**, 13, 1374-1381. (Featured on Cover)
5. Sessler, J. L.; Gross, D. E.; Cho, W.-S.; Lynch, V. M.; Schmidtchen, F. P.; Bates, G. W.; Light, M. E.; Gale, P. A. "Calix[4]pyrrole as a Chloride Anion Receptor: Solvent and Countercation Effects" *J. Am. Chem. Soc.* **2006**, 128, 12281-12288.
4. Sessler, J. L.; Cho, W.-S.; Gross, D. E.; Shriver, J. A.; Lynch, V. M.; Marquez, M. "Anion Binding Studies of Fluorinated Expanded Calixpyrroles" *J. Org. Chem.* **2005**, 70, 5982-5986.
3. Custelcean, R.; Delmau, L. H.; Moyer, B. A.; Sessler, J. L.; Cho, W.-S.; Gross, D.; Bates, G. W.; Brooks, S. J.; Light, M. E.; Gale, P. A. "Calix[4]pyrrole: An Old Yet New Ion-Pair Receptor" *Angew. Chem. Int. Ed.* **2005**, 44, 2537-2542. (Featured on Cover)
2. Ndungu, J. M.; Gu, X.; Gross, D. E.; Cain, J. P.; Carducci, M. D.; Hruby, V. J. "Synthesis of Bicyclic Dipeptide Mimetics for the Cholecystokinin and Opioid Receptors" *Tetrahedron Lett.* **2004**, 45, 4139-4142.
1. Ndungu, J. M.; Gu, X.; Gross, D. E.; Ying, J.; Hruby, V. J. "A Simple and Efficient Synthesis of an Asp-Gly Dipeptide Mimetic" *Tetrahedron Lett.* **2004**, 45, 3245-3247.

Conference and Symposium Presentations and Invited Lectures and Seminars

31. Rathnayaka Mudiyansele, C. R.; Gross, D. E. "Synthesis and Spectroscopic Studies of Benzoxazaboroles" Poster presentation, ACS Southwest Regional Meeting (SWRM), Lubbock, TX, October 31, 2017.
30. Nguyen, T. N.; Gross, D. E. "Synthesis of Diazaboroles from Functionalized Monomers" Poster presentation, ACS Southwest Regional Meeting (SWRM), Lubbock, TX, October 31, 2017.
29. Garcia, N. A.;* Gross, D. E. "Synthesis and Characterization of Ethylhexyl Ester Based Diazaborole-Linked Macrocycles" Poster presentation, ACS Southwest Regional Meeting (SWRM), Lubbock, TX, October 29, 2017. (*Outstanding Undergraduate Poster Award)
28. Steward, M. L.;* Gross, D. E. "Synthesis, characterization, and stability studies of N-alkyl benzodiazaboroles" Oral Presentation, 10th Annual Undergraduate Research Symposium, SHSU, Huntsville, TX, April 29, 2017.
27. Abeyasinghe, J. P.; Gross, D. E. "Benzodiazaboroles: synthesis, reversible formation, and structural properties" Oral presentation, 120th Annual Meeting of the Texas Academy of Science at The University of Mary-Hardin Baylor (UMHB), Belton, TX, March 3-5, 2017.

26. Ekanayake, D. I.; Gross, D. E. "Boron trifluoride facilitated boronate ester exchange" Oral presentation, 120th Annual Meeting of the Texas Academy of Science at The University of Mary-Hardin Baylor (UMHB), Belton, TX, March 3-5, 2017.
25. Nguyen, T. N.; Gross, D. E. "Synthesis of diazaborole-based macrocycles with ethylhexyl ester functional groups" Poster presentation, 120th Annual Meeting of the Texas Academy of Science at The University of Mary-Hardin Baylor (UMHB), Belton, TX, March 3-5, 2017.
24. Rathnayaka Mudiyanse, C. R.; Gross, D. E. "Synthesis and stability analysis of N-alkylbenzoxazaboroles" Poster presentation, 120th Annual Meeting of the Texas Academy of Science at The University of Mary-Hardin Baylor (UMHB), Belton, TX, March 3-5, 2017.
23. Abeyasinghe, J. P.; Gross, D. E. "Synthesis and characterization of substituted diazaboroles" Poster presentation, ACS Southwest Regional Meeting (SWRM), Galveston, TX, November 10-13, 2016.
22. Ekanayake, D. I.; Gross, D. E. "Effect of Lewis acids on the transesterification of boronate esters" Poster presentation, ACS Southwest Regional Meeting (SWRM), Galveston, TX, November 10-13, 2016.
21. Gross, D. E. "Synthesis of nitrogen containing benzoboroles and studies of their dynamic covalent interchange" Oral presentation, ACS Southwest Regional Meeting (SWRM), Galveston, TX, November 10-13, 2016.
20. Steward, M. L.;^{*} Gross, D. E. "Synthesis of N-substituted diazaboroles" Poster presentation, ACS Southwest Regional Meeting (SWRM), Galveston, TX, November 10-13, 2016.
19. Lokugama, S. D; Manankandayalage, C. P.; Gross, D. E. "Dynamic synthesis of diazaborole based oligomers and macrocycles" Poster INOR 983, 251st ACS National Meeting, San Diego, California, March 13-17, 2016.
18. George, S.; Gross, D. E. "Synthesis and characterization of N-alkylbenzoxazaboroles" Poster presentation, ACS Joint Southeastern/Southwest Regional Meeting, Memphis, TN, November 4-6, 2015.
17. Manankandayalage, C. P.; Gross, D. E. "The dynamic nature of benzodiazaborole formation and the synthesis of benzodiazaborole based oligomers" Poster presentation, ACS Joint Southeastern/Southwest Regional Meeting, Memphis, TN, November 4-6, 2015.
16. Kombala, C. J.; Gross, D. E. "Investigation of Boronic Acid Derivatives for Use in Dynamic Macro Cycle Formation" Oral presentation-Group B, 18th Annual Graduate Research Exchange, Sam Houston State University, Huntsville, TX, February 18, 2015.
15. Lokugama, S. D.; Gross, D. E. "Diazaboroles as a Novel Material for Dynamic Macromolecule Synthesis" Oral presentation-Group C, 18th Annual Graduate Research Exchange, Sam Houston State University, Huntsville, TX, February 18, 2015.

14. Kombala, C. J.; Gross, D. E. "Synthesis of boronic acid derivatives for use in dynamic macrocycle formation" Poster presentation 129, ACS 70th Southwest Regional Meeting, Ft. Worth, TX, November 19-22, 2014.
13. Lokugama, S. D.; Gross, D. E. "Investigation of diazaboroles for new molecular architectures" Poster presentation 128, ACS 70th Southwest Regional Meeting, Ft. Worth, TX, November 19-22, 2014.
12. Gross, D. E.; "Arylene-Ethynylene Macrocycles: Building Blocks for Organic Materials" Interview Seminar, Texas State University, December 12, 2011.
11. Gross, D. E.; "Arylene-Ethynylene Macrocycles: Building Blocks for Organic Materials" Interview Seminar, Sam Houston State University, December 06, 2011.
10. Gross, D. E.; Discekici, E.; Moore, J. S. "Synthesis of hybrid arylene ethynylene macrocycles via alkyne metathesis depolymerization" Oral presentation, The 46th Midwest / 39th Great Lakes Joint Regional Meeting of the ACS, Saint Louis, MO, October 19-22, 2011.
9. Gross, D. E.; Discekici, E.;* Moore, J. S. "Converting Arylene Ethynylene Polymers to Macrocycles" Oral presentation, 242nd ACS National Meeting, Denver, CO, August 28-September 1, 2011.
8. Gross, D. E.; Discekici, E.;* Moore, J. S. "Arylene Ethynylene Macrocycles via Alkyne Metathesis Depolymerization" Poster presented at the 14th International Symposium on Novel Aromatic Compounds (ISNA-14), Eugene, OR, July 24-29, 2011.
7. Gross, D. E.; Finke, A. D.; Zang, L.; Moore, J. S. "Sensory Materials Based on Carbazole-Ethynylene Macrocycles" Oral presentation, Trace Explosives Detection Workshop, Portland, OR, April 11-15, 2011.
6. Gross, D. E. "Carbazole-Based Arylene Ethynylene Macrocycles: Synthesis via Alkyne Metathesis, Organic Nanofibril Formation and Explosives Sensing" Oral presentation, NanoHour Seminar Series, Beckman Institute University of Illinois, Urbana, IL, March 9, 2011.
5. Gross, D. E.; Sessler, J. L. "Calixpyrrole-Anion Complexes as Cation Selective Receptors." Poster presented at the III International Symposium on Macrocyclic and Supramolecular Chemistry, Las Vegas, NV, July 2008.
4. Gross, D. E.; Sessler, J. L. "Calixpyrrole-Chloride Complex as a Cation Selective Receptor." Poster presented at the Chemistry and Biochemistry Spring Symposium, University of Texas at Austin, TX, April 2008.
3. Sessler, J. L.; Gross, D. E.; Mikkilineni, V. K.* "Carbazole-Based Expanded Porphyrins" Poster presented at the Chemistry and Biochemistry Spring Symposium, University of Texas at Austin, Austin, TX, April 2008. (*Undergraduate Prize Awarded)
2. Gross, D. E.; Sessler, J. L. "A New Schiff Base Expanded Porphyrin Derived from Carbazole." Poster presented at the II International Symposium on Macrocyclic and Supramolecular Chemistry, Salice Terme, Italy, July 2007.

1. Gross, D. E.; Sessler, J. L. "Characterization of β -fluorinated and Strapped Calix[4]pyrroles by Isothermal Titration Calorimetry." Poster presented at the XIII International Symposium on Supramolecular Chemistry, Notre Dame, IN, June 2004.

Funded External Proposals

American Chemical Society – Petroleum Research Fund, Undergraduate New Investigator Award (2016-2018, \$55,000)

"Benzodiazaboroles as Potential Dynamic Covalent Functional Groups for New Molecular Architectures"

Submitted March 2015

Pending Proposals

NSF-DUE, Improving Undergraduate STEM Education (Co-PI)

"Reformed Organic Chemistry Laboratories (ROC-Labs) at SHSU and CSUB: a performance expectation design supported by cooperative learning and project-based experimentation"

Submitted December 2017, \$450,476 total (\$48,193 for D.E.Gross)

Other Awards and Nominations

Dorothy B. Banks Research Fellowship Award, Department of Chemistry and Biochemistry, University of Texas at Austin, 2007-2008 (\$10,000)

Professional Development Award, Department of Chemistry and Biochemistry, University of Texas at Austin, 2006 (\$500)

Graduate Fellowship, Hamilton/Schoch, 2003 (\$1000)

Reviewing Activities

Journal Articles

Journal of the American Chemical Society, Chemistry – An Asian Journal, Chemical Communications, Chemical Science, The Journal of Organic Chemistry, Crystal Growth and Design,

Grant Proposals and Fellowship Applications

ACS-PRF Undergraduate programs and NSF Graduate Research Fellowship Program

Textbooks

Organic Chemistry – Principles and Mechanisms (2nd Ed., Joel Karty), 2016

Committee Service

COSET Academic Review Panel	2015-present
Chair	(1/2017-present)
Medical and Dental School Evaluation Committee	2016-present
Convocations Committee	2016-present

Professional Affiliations

American Chemical Society
American Association for the Advancement of Science
International Society of Heterocyclic Chemistry