

CURRICULUM VITAE

LISA A. KELLY

Professor of Chemistry and Biochemistry
University of Maryland, Baltimore County
Baltimore, MD 21250

EDUCATION

Ph.D.	1993	Bowling Green State University, Bowling Green, OH, Photochemical Sciences
M.S.	1989	University of Rochester, Rochester, N.Y., Chemistry
B.S.	1988	State University of New York at Geneseo, Geneseo, N.Y. Chemistry

Experience in Higher Education

2023 - Present	University of Maryland, Baltimore County, Baltimore, MD, Professor, Physical Chemistry and Photochemistry
2002 - 2023	University of Maryland, Baltimore County, Baltimore, MD, Associate Professor, Physical Chemistry and Photochemistry
1996 - 2002	University of Maryland Baltimore County, Baltimore, MD, Assistant Professor, Physical Chemistry and Photochemistry

Experience in Other than Higher Education

1994 - 1996	National Synchrotron Light Source, Brookhaven National Lab, Upton, NY, DOE Distinguished Post-Doctoral Fellow.
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Honors/Awards Received

2025	UMBC Marilyn E. Demorest Faculty Advancement Award
2020	Hrabowski Innovation Award – CNMS Fellow in Online Instruction (\$500)
2014	Entrepreneurship and Innovation Curriculum Award, Alex Brown Center for Entrepreneurship (\$3000)
1997	R&D 100 Award “The Fluorescence Omnilyzer,” Brookhaven National Laboratory.
1994 – 1996	Department of Energy Distinguished Post-Doctoral Fellow, Brookhaven National Laboratory
1989 – 1993	Harold and Helen McMaster Junior Fellow, Bowling Green State University
1988 - 1989	Sherman Clarke Fellowship, University of Rochester

RESEARCH SUPPORT AND FELLOWSHIPS**Extramural Research Support (As PI/co-PI)**

2024 – 2025	\$108,468 (\$74,139 Direct), <i>“Visual pH Sensor for Textile Applications,”</i> Under Armour, Role: PI (Submitted, not yet funded).
2022 - 2023	\$103,745 (\$67,676 Direct), <i>“Fluorescence Tagging of Fuel Additives,”</i> Life Cycle Engineering, Inc., Role: PI.
2020 - 2024	\$150,000 (\$116,640 Direct), <i>“Photophysical Properties of MOF-Immobilized Photosensitizers,”</i> U. S. Army Combat Capabilities Development Command, Chemical Biological Center (CCDC CBC), Role: PI.
2019 - 2024	\$450,000 (\$322,824 Direct), <i>“Mechanisms of Radical-Initiated Alkylation of Alkenes, Peptides and Proteins – A Green Chemistry Route,”</i> National Science Foundation (CHE-1855467), Role: PI.
2018 - 2019	\$77,780 (\$36,946 Direct), <i>“Mechanisms of Natural Vasculature Scaffolding,”</i> Alucent Biomedical, Role: PI.
2016 - 2017	\$5,510 (Direct), <i>“Spectroscopic Analysis of Cr(III) in Treated Aluminum Pigments,”</i> 3Notch Chemicals (via Maryland Technology Development Corporation), Role: PI.
2013 - 2015	\$99,950 (\$70,669 Direct), <i>“Feature Flooring – Epoxy Flooring Degradation,”</i> Maryland Institutional Partnership, Role: PI.
2007 - 2008	\$237,500 (\$166,126 Direct), <i>“Laser Pulse Shaping for Remote Detection of Explosives,”</i> Temple University (subcontract from the Army Research Office), Role: co-PI (with Prof. Bradley Arnold).
2005 - 2007	\$225,000 (\$173,003 Direct), <i>“Stand-Off Detection of Energetic Materials Using Back-Scattered Spectroscopy,”</i> The Johns Hopkins Applied Physics Laboratory, Role: co-PI (with Prof. Bradley Arnold).
2004 - 2010	\$50,000 (Direct), <i>“Fluorescence Polymers as Temperature-Responsive Smart Coatings,”</i> Rohm and Haas, Role: PI.
2004 - 2008	\$337,620 (\$255,280 Direct), <i>“A Photophysical Study of Stimuli-Responsive Polymers,”</i> National Science Foundation (CHE-0415429), Role: PI.
2000 - 2004	\$499,985, <i>“Redox-Mediated Cleavage of Peptides and Nucleic Acids,”</i> National Science Foundation, CAREER Award (CHE-9984874), Role: PI.
1999 - 2003	\$344,000, <i>“Luminescent Polymers as Pressure-Sensitive Materials in Water,”</i> Office of Naval Research, Role: PI.

- 1999 - 2001 \$25,000, "*Artificial Assemblies for Saccharide-Selective Photooxidation*," American Chemical Society, Petroleum Research Fund, Role: PI
- 1997 - 1999 \$30,000, "*Redox-Based Phototherapy Agents*," American Cancer Society, Maryland Division, Role: PI.

Extramurally Supported Training Grants (Significant Role, not as PI)

- 2021 - 2024 \$389,826 (\$350,137 Direct), "*Research Experience for Undergraduates Site: Biochemical, Environmental and Molecular Research in Engineering (BEMORE)*," National Science Foundation (EEC-2050728), Role: Faculty Mentor: "*Photoswitchable Polymer Structures for Controlled Release*."
- 2019 - 2022 \$762,000 (Total and Direct), "*Andrew W. Mellon Summer Research Program in Baltimore at the Interface between Science and Art (Baltimore SCIART)*," Role: Faculty Mentor: "*Synthetic Hydrogels for Hide Glue Removal from Parchment*."
- 2015 - 2020 \$357,305 (\$305,375 Direct), "*Research Experience for Undergraduates in Advanced Chemical Sensing and Imaging*," National Science Foundation (CHE-1460653), Role: Faculty Mentor: "*Nanogel Particle-Based Sensors for pH and Temperature*."

Intramural Research Support (As PI)

- 2025 - 2026 \$25,000 (\$25,000 Direct), "*Photochemical Degradation of PFAS*," UMBC Strategic Awards for Research Transitions (START), Role: PI.
- 2014 - 2015 \$3,000, "*Field Portable Sensor Design in the Advanced Laboratory*," Alex Brown Center for Entrepreneurship and Innovation, Curriculum Grant, Role: PI.

STUDENTS MENTORED**Ph.D. Students (As Dissertation Committee Chair, 10 total)**

Name	Date Ph.D. Degree Confirmed	Current Position
– Logan Logan	Expected December, 2027	Ph.D. Pre-Candidate - UMBC
– Madison Conte	Expected December, 2026	Ph.D. Candidate - UMBC
– Ryan Grant	2025	Cruz Associates, Naval Surface Warfare Center
– Dr. Stacey Sova	2019	US Food and Drug Administration
– Dr. Steven Manning	2013	Scientist, Kelly and Heckman LLP
– Dr. Yu Zhang	2010	Senior Chemist, Pharmaceuticals International Inc.
– Dr. Bindu Abraham	2006	Lecturer, Department of Chemistry and Biochemistry, UMBC
– Dr. Sun McMasters	2005	Chemist, Department of Homeland Security
– Dr. Anael Kimaro	2003	Senior Lecturer, St. Augustine University of Tanzania
– Dr. Joy (Rogers) Haley	2001	Research Team Leader, Air Force Research Laboratory – Photonics Materials Branch

Ph.D. Students (As Dissertation Committee Member) (50 total)

Name	Date Ph.D. Degree Confirmed
– Codi Hrynko	Expected May, 2029
– Vaibhavkumar Ginoya	Expected May, 2028
– Md Masum Talukder	Expected May, 2028
– Lekan Ajiboye	Expected May, 2027
– Eric Bowman	Expected May, 2025
– Leslie Scheurer	Expected May, 2025

Name	Date Ph.D. Degree Confirmed
– Anthony Casale	Expected December, 2025
– Alex Reardon	Expected December, 2025
– Brandon Busick	Expected December, 2025
– Mona Layegh	July, 2025
– Sean Brown (Biological Sciences)	April, 2025
– Chanda Lowrance	December, 2024
– Nina Chowdary (Physics)	November, 2024
– Christopher Cooper	January, 2024
– Curtis Jones	December, 2023
– Tao Zhang	December, 2023
– Connor Riahah	December, 2023
– Dr. Christopher Mayer-Bacon (Biological Sciences)	May, 2023
– Dr. Laura Johnson	December, 2022
– Dr. Sara Ansteatt	December, 2022
– Dr. Nopondo Esemoto	December, 2022
– Kenneth Childers	May, 2019
– Eric Languirand	May, 2017
– Danielle Schmitt	May, 2017
– Ester Sesmero	May, 2017
– Johan Melendez	May, 2016
– Rachel Taylor	May, 2016
– Brittny Davis	May, 2015
– Sudhir Dahal	May, 2014
– William Ghann	May, 2014
– Franziska Seeger	May, 2014
– Jeffrey Oleske	May, 2012

Name	Date Ph.D. Degree Confirmed
– Kartik Temburnikar	May, 2012
– Jian Sun	May, 2010
– Paul Cunningham (Physics)	May, 2010
– John van Druff (Chemical Engineering)	May, 2010
– Mohsen Rajabi	May, 2010
– Hailang Zhang	May, 2009
– Derek Smith (Chemical Engineering)	May, 2008
– Jesse Karr	May, 2007
– Rad Balu	May, 2007
– Quingrong Zhang	May, 2007
– Honggang Li	May, 2007
– Sue Bae	May, 2006
– Stacey Gelhaus	May, 2005
– Dustin Levy	May, 2005
– Wendy Houck	May, 2004

Masters Students (As Committee Chair, 9 total)

Name	Date M.S. Degree Confirmed	Current Position
– Owen Sparr	2024 (non-thesis)	Cruz Associates, Naval Surface Warfare Center
– Britney Hopgood	2022 (non-thesis)	STEM Education Facilitator, Puerto Rico Science Trust
– Melissa Roll	2019 (non-thesis)	Senior Programmer Specialist, The Hilltop Institute
– John Arthur	2012 (non-thesis)	Staff Pharmacist, PharmScript LLC

Name	Date M.S. Degree Confirmed	Current Position
– Hao Hao Ke	2008 (non-thesis)	Unknown
– Kathleen (Daugherty) Davies	2004 (thesis)	Senior Public Policy Health Advisor, U.S. Food and Drug Administration
– Behzad Farivar, M.D.	2004 (thesis)	Vascular and Endovascular Surgeon, Director, University of Virginia Aortic Center
– Sharon (Weiss) Dornmemann	2000 (thesis)	Adjunct Faculty, Monmouth University
– Thao P. Le	2000 (thesis)	Supervisory Patent Examiner, U.S. Patent and Trade Office

Undergraduate Students (As Research Mentor) (49 total, Only Since 2005 Shown)

Name	Research Project	Dates	Current Position (where known)
– Aeon Kaplowitz	Undergraduate Research Award (URA)	December, 2023 - Present	B.S. Biochemistry and Molecular Biology student UMBC
– Rachel Kramer	NSF BEMORE REU	June, 2024 – August, 2024	UMBC, Ph.D. Student
– Johnathan Ragazzo	Undergraduate Research Award (URA)	March, 2024 – May, 2025	Colonial Metals
– Dayna Garner	Undergraduate Research Award (URA)	January, 2024 – May, 2025	Ohio State University Ph.D. Student
– Amanda Thompson	NSF BEMORE REU	June, 2023 – August, 2023	Rensselaer Polytechnic Institute Ph.D. Student
– Madelyn (Gracie) Holm	NSF BEMORE REU	June, 2023 – August, 2023	
– Grayson Pipher	Independent Study	September, 2022 – January, 2023	

Name	Research Project	Dates	Current Position (where known)
– Owen Sparr	Independent Study	June, 2022 – December, 2023	Cruz Associates, Naval Surface Warfare Center
– Olivia Edwards	Independent Study	January, 2022 - Present	
– Sukh Singh	Undergraduate Research Award (URA)	January, 2022 – June, 2023	Ohio State University Ph.D. Program
– Gabrielle Pozza (B.S. Chemistry 2020)	Independent Study	January, 2020 – June, 2023	Ohio State University Ph.D. Program
– Ali Sulehria	NSF BEMORE REU	June – August, 2022	Tulane University B.S. Biomedical Engineering program
– Amanda McKee	NSF BEMORE REU	June – August, 2022	West Virginia University Ph.D. Program
– Ewa Harazinska (B.S. Chemistry 2020)	SCIART	June – August, 2019	Johns Hopkins University Ph.D. Program
– Manos Tzortzakakis (B.S. Chemical Engineering 2020)	Undergraduate Research Award (URA)	2018 - 2019	Associate Scientist II, NIAID/NIH
– Brett Lucht (B.S. Chemistry, Marist College, 2010)	NSF Chemical Sensing and Imaging REU	June – August, 2018	University of Pittsburgh Ph.D. Program
– Duyquang Dong (B.S. Chemistry 2017)	Independent Study	2017	
– Luca Santinella (B.S. Chemistry 2017)	Independent Study	2016 - 2017	
– Lucia Rodriguez (B.S. Chemistry,	NSF Chemical Sensing and Imaging REU	June – August, 2017	UMB/UMBC Biochemistry and

Name	Research Project	Dates	Current Position (where known)
Winthrop University, 2019)			Molecular Biology Ph.D. Program
– Kathleen Pagarigan (B.S. Chemistry, 2017)	Undergraduate Research Award (URA)	2016 – 2017	Legal Assistant, Department of Agrarian Reform
– Nhu Nguyen (B.S. Chemistry, 2019)	Undergraduate Research Award (URA)	2016 - 2017	University of Virginia Ph.D. Program
– Elisa Castello (B.S. Chemistry, Stevenson University, 2018)	NSF Chemical Sensing and Imaging REU	June – August, 2016	University of Maryland School of Pharmacy, PharmD Program
– Kyle Martin (B.S. Biochemistry and Molecular Biology, 2017)	Independent Study	2016	Louis Katz School of Medicine, Temple University, M.D. Program
– Luke Marra (B.S. Chemical Engineering, 2016)	Independent Study	2015 – 2016	Process Engineer, Jacobs
– Oleg Semchenko (B.S. Chemical Engineering, 2016)	Independent Study	2015 - 2016	Senior Process Engineer, Qiagen
– Jeremy Mattison (B.S. Biochemistry and Molecular Biology, 2016)	Undergraduate Research Award (URA)	January, 2014 – May 2016	Deceased (Formerly Chemist, Naval Air Station, Patuxent River)
– Eric Wolfson, Ph.D. (B.S. Chemistry, 2015)	Independent Study	January, 2014 – May, 2015	Synthetic Chemist, Dupont
– Ahmed Gahalrasoul (B.S. Chemistry 2014)	Independent Study	2012 - 2014	Senior Consultant, Deloitte
– Margaret Gillan (B.S. Chemistry, 2013)	Independent Study	2012 - 2013	Graduate Student, Rowan University

Name	Research Project	Dates	Current Position (where known)
– Will Bogen (B.S. Chemistry, 2011)	Undergraduate Research Award (URA)	2010 - 2011	Quality Assurance Technician, McCormick & Company
– Robby Tietz (B.S. Chemical Engineering, 2012)	Undergraduate Research Award (URA)	2011 - 2012	Area Manager, Nalco Champion
– Lisa George (B.S. Biochemistry and Molecular Biology, 2010)	Independent Study	2009 - 2010	Adjunct Instructor, Madison Area Technical College
– Joy Ihekweazu, Ph.D. (B.S. Chemistry, 2009)	MARC U*STAR Scholar	2007 - 2009	Principle Chemist, Savanna River Mission Completion
– Matthew Loftus, M.D. (B.S. Chemistry, 2007)	Undergraduate Research Award (URA)	2006 - 2007	Physician, Medstar Family Choice
– Nam-Phuong Nguyen (B.S. Chemistry, 2007)	Independent Study	2006 - 2007	

High School Students Mentored

Name	Dates	Current Position
– Harini Radhakrishnan (McDonogh School, MD)	Summer 2014	Ph.D. Student/NSF Graduate Fellow, Physics and Astronomy, University of Tennessee Knoxville
– Joshua Baney (Landsdowne High School, MD)	Summer, 2014	Emergency Health Services B.S. program, UMBC

PUBLICATIONS AND PRESENTATIONSUMBC ^UUndergraduate; ^GGraduate student; ^PPost-doctoral trainee

() Primary Author; * Corresponding author

Peer-Reviewed Works**Book Chapters (Peer-Reviewed by Editors):**

1. **Kelly, L. A.**, "4-Amino-1,8-Naphthalimides and Related Species." In *The Chemistry of Nitrogen-Rich Functional Groups, Volume 2*; Greer, A. and Liebman, J. F., Eds.; PATAI's Chemistry of Functional Groups, **2024**. <https://doi.org/10.1002/9780470682531.pat1029>
2. (Chandrasekharan, N.)^P, **Kelly, L. A.***, "Progress Towards Fluorescent Molecular Thermometers," In *Reviews in Fluorescence 2004*, Geddes, C. D., Editor, **2004**, 21-40.

Journal Articles/Conference Proceedings (52 total, only Selected Shown):

1. (Kulisiewicz, A. M.), (Garibay, S. J.), (Pozza, G.)^U, Browe, M. A., Sparr, O.^U, Singh, Sukvar^U, **Kelly, L. A.***, DeCoste, J. B.*, "Enhanced Singlet Oxygen Generation Under Ultraviolet and Visible Light by Metal-Organic Frameworks via Functionalization of Pyrene Containing Linkers," *Appl. Mater. Interfaces*, **2023**, 15, 40727 - 40734. <https://doi.org/10.1021/acsami.3c06011>
2. Prasad, N., Setera, B.^U, Emge, I.^U, Scheurer, L.,^G **Kelly, L.**, Arnold, B., Cullum, B., Choa, F.-S., Singh, N. B., "Effect of processing parameters on sensing of chem-bio agents on surfaces: contact angle-based interactions," *Proc. SPIE – Soc. Opt. Eng.*, **2023**, 12548, 1254802. <https://doi.org/10.1117/12.2661716>
3. (Setera, B.)^{*U}, Su, C.-H.^U, Arnold, B. R., Choa, F.-S., **Kelly, L.**, Sood, R.^U, Singh, N. B., "Comparative Study of Bulk and Nanoengineered Doped ZnSe," *Crystals*, **2022**, 12, 71-79. <https://doi.org/10.3390/cryst12010071>
4. (Singh, A.U.), Machuga, K. S., Prasad, H., Mandal, K.,* **Kelly, L.**, Arnold, B., Choa, F. -S., Cullum, B., Austin, G., Singh, N. B., "Dissolution of Kidney Stones; Nano and Micro Morphologies Developed During Remelting," *Curr. Res. Mat. Chem*, **2022**, 3, 113. <https://doi.org/10.33790/crmc110011311>
5. (**Kelly, L. A.***), Roll, M.^G, Joseph, J., Seenisamy, J., Barrett, J., Kauser, K., Warner, K. S., "Solvent-Dependent Photophysics and Reactivity of Monomeric and Dimeric 4-Amino-1,8-Naphthalimides," *J. Phys. Chem., A.*, **2021**, 125, 2294 – 2307. <https://doi.org/10.1021/acs.jpca.0c11639>
6. Emge, I.^U, Scheurer, L.^G, Grant, R.^G, Prasad, N, **Kelly, L.**, Arnold, B., Choa, F. -S., Setera, B.^U, Singh, N. B., "Surface Characteristics of Polymer

- Nanocomposites,” *Proc. SPIE – Soc. Opt. Eng.*, **2021**, 11757, 117570X1-117570X4. <https://doi.org/10.1117/12.2585834>
7. Emge, I.^U, Kazal, D.^G, Cooper, C.^G, Sood, R.^U, Saraf, S.^U, Su, C. H.^U, Cullum, B., Choa, F.-S., Arnold, B. R., **Kelly, L.**, Singh, N. B., “Optimization of Sensor Materials Using Physical Vapor Transport Growth Method,” *Proc. SPIE – Soc. Opt. Eng.*, **2021**, 11757, 117570O. <https://doi.org/10.1117/12.2586081>
 8. (Sova, S.)^G, **Kelly, L. A.***, “Formation and Reaction Kinetics of Biradicals and Triplet States in a Series of Carboxylated 1,4,5,8-Naphthalene Diimides,” *J. Phys. Chem., A*, **2020**, 124, 7453-7463. <https://doi.org/10.1021/acs.jpca.0c06639>
 9. (Hopanna, M.)^G, **Kelly, L.**, Blaney, L.*, “Photochemistry of the Organoselenium Compound Ebselen: Direct Photolysis and Reaction with Active Intermediates of Conventional Reactive Species Sensitizers and Quenchers,” *Environ. Sci. Technol.*, **2020**, 54, 11271-11281. <https://doi.org/10.1021/acs.est.0c03093>
 10. Emge, I.^U, Su, C.^U, Sood, R.^U, Arnold, B., Choa, F. -S., **Kelly, L.**, Mandel, K. D., Verman, Manish K., Singh, N. B., “Chemical and Biological Sensing Using Polarity of Material”, *Proc. SPIE – Soc. Opt. Eng.*, **2020**, 11416, 1141610. <https://doi.org/10.1117/12.2563877>
 11. (Singh, N.B.), Su, C.,-H.^U, Choa, F. -S., Arnold, B., Cooper, C.^G, Cullum, B., **Kelly, L.**, “Morphology and Performance of Organic Nanocomposites for γ-Ray Sensing,” *Emerging Mater. Res.*, **2020**, 9, 520 - 526. <https://doi.org/10.1680/jemmr.18.00050>
 12. (Setera, B.)^U, Arnold, B., Choa, F.-S., **Kelly, L.**, Emge, I.^U, Su, C.^U, Machuga, K. S.; Singh, N. B., “Design and Measurement of n for the Multicomponent Semiconductor,” *Proc. SPIE – Soc. Opt. Eng.*, **2020**, 11498, 1149803. <https://doi.org/10.1117/12.2566997>
 13. (Sova, S.)^G, **Kelly, L.A.***, “Enzyme Modification and Oxidative Cross-linking Using Carboxylate-, Phenol- and Catechol-Conjugated 1, 8-Naphthalimides,” *Photochem. Photobiol.*, **2019**, 95, 1169 – 1178. <https://doi.org/10.1111/php.13110>
 14. Singh, N. B.*, Su, C. –H.^U, Cullum, B., Arnold, B., Choa, F. –S., **Kelly, L.**, Sova, S.^G, Cooper, C.^G, “Morphological and Optical Characteristics of Transition Metal Doped PVT Grown Zinc Selenide Single Crystal”, *Cryst. Res. Technol.*, **2019**, 54, 180023. <https://doi.org/10.1002/crat.201800231>
 15. (Sova S.)^G, Prasad, N.*, Cooper, C.^G, **Kelly, L.**, Arnold, B., Cullum, B., Choa, F. – S, Singh, N. B., “Importance of Lotus Effect on Surface Sensing,” *Proc. SPIE – Soc. Opt. Eng.*, **2019**, 11020, 1102005. <https://doi.org/10.1117/12.2519738>
 16. McAdams, J.^G, Bowman, E.^G, Cullum, B., Arnold, B., **Kelly, L.**, Choa, F. –S., Singh, N. B., Su, C. H.^U, Mandal, K. D., Singh, S., “Effect of Processing on Morphology of Hydroxyapatites: Bioactive Glasses and Crystalline Composites,” *Proc. SPIE – Soc. Opt. Eng.*, **2019**, 11020, 1102006. <https://doi.org/10.1117/12.2516042>

17. (Anderson, E. D.), Sova, S.^G, Ivanic, J., **Kelly, L.**, Schnermann, M. J.*, "Defining the Conditional Basis of Silicon Phthalocyanine Near-IR Ligand Exchange," *Phys. Chem. Chem. Phys.*, **2018**, 20, 19030 – 19036. <https://doi.org/10.1039/C8CP03842B>
18. (Manning, S. J.)^G, Bogen, W.^U, **Kelly, L. A.***, "Synthesis, Characterization, and Photophysical Study of of Fluorescent N-Substituted Benzo[ghi]perylene 'Swallow Tail' Monoimides," *J. Org. Chem.*, **2011**, 76, 6007-6013. <https://doi.org/10.1021/jo200529p>
19. (Trexler, M. M.)*, Zhang, D., **Kelly, L. A.**, Sample, J., "Structure and Optical Properties of Lanthanide-Doped Zirconia Nanoparticles," *J. Mater. Res.*, **2010**, 25, 500-509. <https://doi.org/10.1557/JMR.2010.0071>
20. Arnold, B.* , **Kelly, L.***, (Oleske, J. B.)^G, Schill, A.^U, "Standoff Detection of Nitrotoluenes Using 213-nm Amplified Spontaneous Emission from Nitric Oxide," *Anal. Bioanal. Chem.*, **2009**, 395, 349-355. <https://doi.org/10.1007/s00216-009-2990-7>
21. (McMasters, S.)^G, **Kelly, L. A.***, "Sequence-Dependent Interactions of Cationic Naphthalimides and Polynucleotides," *Photochem. Photobiol.*, **2007**, 83, 889 - 896. <https://doi.org/10.1111/j.1751-1097.2007.00155.x>
22. (McMasters, S.)^G, **Kelly, L. A.***, "Ground-State Interactions of Spermine-Substituted Naphthalimides with Mononucleotides," *J. Phys. Chem. B*, **2006**, 110, 1046-1055. <https://doi.org/10.1021/jp0551061>
23. (Abraham, B.)^G, McMasters, S.^G, Mullan, M.^U, **Kelly, L. A.***, "Reactivities of Carboxyalkyl-Substituted 1,4,5,8-Naphthalene Diimides in Aqueous Solution," *J. Am. Chem. Soc.*, **2004**, 126, 4293 – 4300. <https://doi.org/10.1021/ja0389265>
24. (Abraham, B.)^G, **Kelly, L. A.***, "Photo-oxidation of Amino Acids and Proteins Mediated by Novel 1,8-Naphthalimide Derivatives," *J. Phys. Chem. B*, **2003**, 107, 12534 – 12541. <https://doi.org/10.1021/jp0358275>
25. (Chandrasekharan, N.)^P, **Kelly, L. A.***, "A Dual Fluorescence Temperature Sensor Based on Perylene/Exciplex Interconversion," *J. Am. Chem. Soc.* **2001**, 123, 9898-9899. <https://doi.org/10.1021/ja016153j>
26. (Rogers, J. E.)^G, Abraham, B.^G, Rostkowski, A., **Kelly, L. A.***, "Mechanisms of Photoinitiated Cleavage of DNA by 1,8-Naphthalimide Derivatives" *Photochem. Photobiol.*, **2001**, 74, 521-531. [https://doi.org/10.1562/0031-8655\(2001\)074%3C0521:MOPCOD%3E2.0.CO;2](https://doi.org/10.1562/0031-8655(2001)074%3C0521:MOPCOD%3E2.0.CO;2)
27. (Rogers, J. E.)^G, Le, T. P.^G, **Kelly, L. A.***, "Nucleotide Oxidation Mediated by Naphthalimide Excited States with Covalently Attached Viologen Co-Sensitizers," *Photochem. Photobiol.*, **2001**, 73, 223 – 229. [https://doi.org/10.1562/0031-8655\(2001\)073%3C0223:NOMBNE%3E2.0.CO;2](https://doi.org/10.1562/0031-8655(2001)073%3C0223:NOMBNE%3E2.0.CO;2)

28. (Le, T. P.)^G, Rogers, J. E.^G, **Kelly, L. A.***, "Photoinduced Electron Transfer in Covalently Linked 1,8-Naphthalimide/Viologen Systems," *J. Phys. Chem. A.* **2000**, 104, 6778 – 6785. <https://doi.org/10.1021/jp000855y>
29. (Rogers, J. E.)^G, Weiss, S. J.^G, **Kelly, L. A.***, "Photoprocesses of Naphthalene Imide and Diimide Derivatives in Aqueous Solution and DNA," *J. Am. Chem. Soc.* **2000**, 122, 427 – 436. <https://doi.org/10.1021/ja992332d>
30. (Rogers, J. E.)^G, **Kelly, L. A.***, "Nucleic Acid Oxidation Mediated by Naphthalene and Benzophenone Imide and Diimide Derivatives: Consequences for DNA Redox Chemistry," *J. Am. Chem. Soc.* **1999**, 121, 3854 - 3861. <https://doi.org/10.1021/ja9841299>
31. (**Kelly, L. A.**), Trunk, J. G., Sutherland, J. C.* , "Time-Resolved Fluorescence Polarization Measurements for Entire Emission Spectra with a Resistive-Anode, Single-Photon-Counting Detector: The Fluorescence Omnilyzer," *Rev. Sci. Instrum.*, **1997**, 68, 2279 – 2286. <https://doi.org/10.1063/1.1148173>
32. (**Kelly, L. A.**), Trunk, J. G., Sutherland, J. C.* , "Simultaneous Recording of the Spectral, Temporal and Polarization Properties of Emission Spectra," *Proc. SPIE – Soc. Opt. Eng.*, (Advances in Fluorescence Sensing Technology III), **1997**, 2980, 2 - 11. <https://doi.org/10.1117/12.273507>
33. (Chen, X. G.), Pusheng, L., Holtz, J. S. W., Chi, Z., Pajcini, V., Asher, S. A.* , **Kelly, L. A.**, "Resonance Raman Examination of the Electronic Excited States of Glycylglycine and Other Dipeptides: Observation of a Carboxylate to Amide Charge Transfer Transition," *J. Am. Chem. Soc.*, **1996**, 118, 9705. <https://doi.org/10.1021/ja960421+>
34. (**Kelly, L. A.**), Trunk, J. G., Polewski, K., Sutherland, J. C.* , "Simultaneous Resolution of Spectral and Temporal Properties of UV and Visible Fluorescence Using Single-Photon Counting with a Position-Sensitive Detector," *Rev. Sci. Instrum.*, **1995**, 66, 1496 – 1498. <https://doi.org/10.1063/1.1145953>
35. (**Kelly, L. A.**), Rodgers, M. A. J.* , "Inter- and Intramolecular Oxidative Quenching of Mixed Ligand Tris(bipyridyl)ruthenium(II) Complexes by Methyl Viologen," *J. Phys. Chem.*, **1995**, 99, 13132-13140. <https://doi.org/10.1021/j100035a015>
36. (**Kelly, L. A.**), Rodgers, M. A. J.* , "Reductive Quenching of Novel Mixed-Ligand Tris(bipyridyl)ruthenium(II) Complexes in Aqueous Solution and Inert Colloidal Suspensions," *J. Phys. Chem.*, **1994**, 98, 6377-6385. <https://doi.org/10.1021/j100076a023>
37. (**Kelly, L. A.**), Rodgers, M. A. J.* , "Photoreduction of Methyl Viologen Mediated by Tris(bipyridyl)ruthenium(II) in Inert Colloidal Suspensions," *J. Phys. Chem.*, **1994**, 98, 6386-6391. <https://doi.org/10.1021/j100076a024>

Presentations (Presenting Author in Parenthesis when Multiple Authors) (24 total, Only Since 2005 Shown)

Invited Oral Presentations (Juried National/International Conferences)

1. **Kelly, L. A.***, "*Structure and Environmental Control of Radical Intermediates from Naphthalene Imide Excited States*," 31st Inter-American Photochemical Society Winter Meeting, Miramar Beach, FL, January 4, 2024.
2. **Kelly, L. A.***, "*Environmentally-Mediated Photochemistry of 4-Amino-1,8-Naphthalimides*," Ohio Photochemical Society Meeting- Photons for the Public Good, Maumee Bay, OH, July 10, 2023.
3. (Grant, R.^G as Urbach Travel Award recipient), **Kelly, L. A.***, "*4-Amino 1,8-Naphthalimides as Potential Photo-Induced Protein Crosslinkers*," 41st American Society for Photobiology Biennial Meeting, Albuquerque, NM, September 25 – 28, 2022.
4. **(Kelly, L. A.)***, Sova, S.^G, "*Biradical Formation and Reactivity in 1,4,5,8-Naphthalene Diimide-Carboxylate Conjugates*," Mid-Atlantic Regional Meeting of the American Chemical Society, Baltimore, MD, June 1, 2019.
5. **Kelly, L. A.***, (Sova, S.^G - ASP Travel Award Recipient), "*Photooxidative Crosslinking and Affinity Labeling of Proteins Using Naphthalene Imides*," Biennial Meeting of the American Society for Photobiology, Tampa, Florida, May 22, 2016.
6. (Manning, S.^G), **Kelly, L. A.***, "*Synthesis and Polarity Sensing with Benzo[ghi]perylene Monoimides*," 43rd American Chemical Society Mid-Atlantic Regional Meeting, Baltimore, MD, June 2, 2012.
7. (Manning, S.^G - 1st Place Presentation Winner), George, L.^U, Zukowski, E.^G, **Kelly, L. A.***, "*Development of Fluorescent Temperature-Responsive Nanogels*," 1st Annual Nanomaterials Symposium, Johns Hopkins Applied Physics Laboratory, Laurel, MD, March, 2010.
8. **(Kelly, L. A.)***, Arnold, B. R.*, Oleske, J.^G, Schill, A.^G, "*Coherent 'BASE' for Detection of Energetic Vapors*," Office of Naval Research Program Review, Austin, TX, February, 2009.
9. **(Kelly, L. A.)***, Collins, B.*, Arnold, B. R.*, Schill, A.^U, "*Stand-Off Detection of Energetic Materials Using Back-Scattered Coherent Spectroscopy*," Counter-IED Program Review, Washington, D.C., February 11, 2008.
10. **Kelly, L. A.**, "*Applications of Spectroscopy in Sensor and Smart Polymer Technologies*" 18th Winter Conference of the Inter-American Photochemical Society Meeting, St. Petersburg, Florida, January 2 - 5, 2007.

11. **Kelly, L. A.**, “*Thermal Imaging and Smart Packing – the Photophysics Way*,” Presidential Lecture, 33rd Annual Meeting of the American Society for Photobiology, Rio Grande, Puerto Rico, July 8 – 12, 2006.
12. **Kelly, L. A.**, “*Ground- and Excited-State Interactions of Spermine-Substituted 1,8-Naphthalimides with Nucleic Acids*,” 17th Annual Meeting of the Inter-American Photochemical Society, Salvador, BRAZIL, June 12 - 15, 2006.
13. **Kelly, L. A.**, “*Experimental Approaches to Mapping DNA and Protein Interactions Using Naphthalimide Photochemistry*,” Travel grant awardee, NSF-Sponsored Workshop on the Interplay of Theory and Experiment in Photochemistry, Salvador, BRAZIL, June 10, 2006.
14. **Kelly, L. A.**, “*Temperature-Dependent Photophysics of Fluorescent Polymers*,” 16th Winter Conference of the Inter-American Photochemical Society, Clearwater Beach, FL, January 2 – 5, 2005.
15. (**Kelly, L. A.**)*, Abraham, B.^G, Mullen, M.^U, “*Probing Protein Structure and Interactions Using Photochemistry*,” Frontiers in Photobiology Symposium at the American Chemical Society Meeting, Washington, DC, August 28, 2005.
16. **Kelly, L. A.**, “*Temperature-Dependent Photophysics of Styrene and Acrylamide-Based Polymers*,” Supramolecular Photochemistry Symposium, Pacifichem, Honolulu, Hawaii, December 15 – 20, 2005.

Invited Seminars and Symposia (28 total, Only Since 2010 Shown)

1. **Kelly, L. A.**, “*Alumni Career Perspectives*,” State University of New York at Geneseo Alumni Networking Series, SUNY Geneseo, Geneseo, NY, April 11, 2022.
2. **Kelly, L. A.**, “*Alumni Journeys*,” State University of New York at Geneseo Alumni Networking Series, SUNY Geneseo, Geneseo, NY, April 14, 2021.
3. **Kelly, L. A.**, “*Photochemical Probes of Macromolecular Structure*,” Millersville University, Millersville, PA, November 9, 2020
4. **Kelly, L. A.**, “*Photochemical Probes of Macromolecular Structure*,” Hood College, Frederick, MD, October 24, 2019.
5. **Kelly, L. A.**, “*Spectroscopy and Material Science for NAVAIR Applications*” NAVAIR Materials Engineering Division, Patuxent River, MD, February, 2018.
6. **Kelly, L. A.**, “*Photochemical Probes of Macromolecular Structure*,” Salisbury University, Salisbury, MD, March 1, 2017.
7. **Kelly, L. A.**, “*Benzo[ghi]perylene Monoimide Dyes as Fluorescent Probes of Stimuli-Responsive Polymers*,” National Institute of Standards and Technology, Gaithersburg, MD, January 12, 2015.

8. **Kelly, L. A.**, “*Smart Materials*,” Becton Dickinson, Sparks, MD, January 1, 2014.

Select Conference Presentations (Juried/Refereed) (62 total, Only Since 2010 Shown) (S(O) or (P) = Student (Oral) or (Poster) Presentation)

1. (Kaplowitz, A.)^U, Logan, L.^G, **Kelly, L. A.**, “Exploring Linker Functionalization in Zirconium-Based Metal-Organic Frameworks for Enhanced Curcumin Encapsulation and Release,” Summer Undergraduate Research Fest 2024, University of Maryland, Baltimore County, August 6, 2025. S(P)
2. (Kaplowitz, A.)^U, Logan, L.^G, **Kelly, L. A.**, “Exploring Linker Functionalization in Zirconium-Based Metal-Organic Frameworks for Enhanced Curcumin Encapsulation and Release,” Undergraduate Research and Creative Achievement Day, URCAD 29, UMBC, April 16, 2025. S(P)
3. (Kaplowitz, A.)^U, Logan, L.^G, **Kelly, L. A.***, Conte, M.^G, Singh, S.^U, Kulisiewicz, A., Garibay, S. J., DeCoste, J., “Esterified ABDA as a Reliable Probe for Singlet Oxygen Generation in Metal-Organic Frameworks,” 88th Intercollegiate Student Chemists Convension, Mulhenberg College, March 29, 2025. S(P)
4. Garner, D.^U, Ragazzo, J.^U, Sparr, O.^G, **Kelly, L.***, “Detection and Quantification of Carboxylic Acids in Complex Solutions,” 88th Intercollegiate Student Chemists Convension, Mulhenberg College, March 29, 2025. S(P)
5. (Conte, M.)^G, **Kelly, L. A.***, “Dehalogenation of Aryl and Alkyl Halides Using Naphthalene Diimide Radical Anions,” 8th Annual Chemistry and Biochemistry Graduate Research Day, University of Maryland, Baltimore County, March 14, 2025. S(P)
6. (Logan, L.)^G, (Kramer, R.)^U, **Kelly, L. A.***, “Singlet Oxygen Production and Photostability of NU-1000 MOFs,” 8th Annual Chemistry and Biochemistry Graduate Research Day, University of Maryland, Baltimore County, March 14, 2025. S(P)
7. (Kramer, R.)^U, Logan, L.^G, Kaplowitz, A.^U, **Kelly, L. A.***, “Investigating Singlet Oxygen Production of NU-1000 MOFs using eABDA,” Summer Undergraduate Research Fest 2024, University of Maryland, Baltimore County, August 10, 2024. S(P)
8. (Kaplowitz, A.)^U, Logan, L.^G, Conte, M.^G, **Kelly, L. A.***, “*Singlet Oxygen Detection: Exploring Esterified ABDA in Pyrene-Based Organic Linkers and NU-1000 MOFs*,” 28th University Research and Creative Achievement Day, University of Maryland, Baltimore County, April 10, 2024. S(P)
9. (Conte, M.)^G, (Grant, R.)^G, **Kelly, L. A.***, “*Twisted Intramolecular Charge-Transfer Behavior of 4-Amino-1,8-Naphthalimides*,” 31st Inter-American Photochemical Society Winter Meeting, Miramar Beach, FL, January 3, 2024. S(P)

10. (Grant, R.)^G, (Conte, M.)^G, **Kelly, L. A.***, "*Solvent and Environment-Dependent Fluorescence of 4-Amino-1,8-Naphthalimides*," 31st Inter-American Photochemical Society Winter Meeting, Miramar Beach, FL, January 3, 2024. S(P)
11. (Thompson, A.)^U, (Holm, M.)^U, Pozza, G. R.^G, Singh, S.^U, **Kelly, L.***, Garibay, S. J., Decoste, J., "*Quantifying Singlet Oxygen Production from Different MOF Catalysts*," Summer Undergraduate Research Fest 2023, University of Maryland, Baltimore County, August 9, 2023. S(P)
12. (McKee, A.)^U, (Sulehria, A.)^U, Grant, R.^G, **Kelly, L. A.***, "*Photodegradable Cross-Linked Nanogels*," ACS Crossroads of Chemistry, Indianapolis, IN, March 28, 2023. S(P)
13. (Singh, S.)^U, Pozza, G. R., **Kelly L.***, Sparr, O.^G, Decoste, J., Kulisiewicz, A. M., Browe, M. A., Garibay, S. J., "*Spectral Analysis of MOFs for Decomposition of Chemical Warfare Agents*," ACS Crossroads of Chemistry, Indianapolis, IN, March 28, 2023. S(P)
14. (Conte, M.)^G, (Grant, R.)^G, **Kelly, L. A.***, "*Solvent, Substituent and Temperature-Dependent Fluorescence of 4-Amino-1,8-Naphthalimides*," 6th Annual Chemistry and Biochemistry Graduate Research Day, University of Maryland, Baltimore County, March 3, 2023. S(P)
15. (Grant, R.)^G, Conte, M.^G, **Kelly, L. A.*** "*4-Amino-1,8-naphthalimides as Potential Photo-induced Protein Crosslinkers*," 30th Winter Conference of the Inter-American Photochemical Society, Miramar Beach, FL, January 5, 2023. S(P)
16. (Pozza, G. R.), (Singh, S.)^U, Sparr, O.^G, Kelly, L. A., Garibay, S., Kulisiewicz, A. M., Browe, M. A., DeCoste, J. "*Spectral Analysis of MOFs for Decomposition of Chemical Warfare Agents*," 30th Winter Conference of the Inter-American Photochemical Society, Miramar Beach, FL, January 5, 2023. S(P)
17. (Grant, R.)^G, **Kelly, L. A.***, "*Solvatochromic Dyes as Protein Crosslinkers*," 5th Annual Chemistry and Biochemistry Graduate Research Day, University of Maryland, Baltimore County, March 4, 2022. S(P)
18. (Grant, R.)^G, **Kelly, L. A.***, "*Solvatochromic Dyes as Protein Crosslinkers*," 4th Annual Chemistry and Biochemistry Graduate Research Day, University of Maryland, Baltimore County, March 5, 2021. S(P)
19. (Grant, R.)^G, **Kelly, L. A.***, "*Solvatochromic Dyes as Protein Crosslinkers*," 3rd Annual Chemistry and Biochemistry Graduate Research Day, University of Maryland, Baltimore County, March 6, 2020. S(P)
20. (Singh, N.)*, Choa, F. -S., Arnold, B., **Kelly, L. A.**, Mandal, K., "*Transition of Nanomorphology in Ceramic Systems: Multifunctional Ceramics for Energy Storage, Microelectronics, EOIR and Radiation Sensors*," 44th International Conference and Exposition on Advanced Ceramics and Composites, Daytona Beach, FL, January 26, 2020. (O)

21. (Sachs, D.)^U, Prasad, N.*^{*}, **Kelly, L. A.**, Singh, N. B., Choa, F.-S., Arnold, B. A., "Self-Cleaning of Aircraft Surfaces Using Nanotechnology," NASA Langley, Langley, VA, August 8, 2019. S(O)
22. (Tzortzakakis, M.)^U, **Kelly, L. A.***, "A Calorimetric Approach To Structure-Reactivity Correlation In Epoxide Crosslinking Reactions," 23rd University Research and Creative Achievement Day, University of Maryland, Baltimore County, April 24, 2019. S(P)
23. Sova, S.^G, (Prasad, N.)^{*}, Cooper, C.^G, **Kelly, L.**, Arnold, B. R., Cullum, B. M., Choa, F. -S., Singh, N. B., "Importance of Lotus Effect on Surface Sensing", SPIE Defense + Commercial Sensing, Baltimore, MD, April 15, 2019. (O)
24. McAdams, J.^G, Bowman, E.^G, Cullum, B. M., Arnold, B. R., **Kelly, L.**, Choa, F. -S., (Singh, N. B.)^{*}, "Effect of Processing on Morphology of Hydroxyapatites: Bioactive Glasses and Crystalline Composites," SPIE Defense + Commercial Sensing, Baltimore, MD, April 15, 2019. (O)
25. (Dayal, V.)^U, Singh, N. B., Su, C. -H.^U, Gill, P.^U, Lee, B.^U, Choa, F. -S., Arnold, B., **Kelly, L.**, Cullum, B., "Nanocomposites for Low Dose Gamma-Ray Sensor: Effect of Matrix and Oxidizer on the Performance," SPIE Defense + Commercial Sensing, Baltimore, MD, May 14, 2019. <https://doi.org/10.117/12.2517435>. S(O)
26. (Lucht, B.), Sova, S.^G, **Kelly, L. A.***, "Synthesis and Characterization of Naphthalimide Dye-Labeled Thermal-Responsive Copolymers," 21st Summer Undergraduate Research Fest (SURF), University of Maryland, Baltimore County, August 8, 2018. S(P)
27. **Kelly, L. A.***, (Sova, S. - Travel Award Recipien and Runner-Up, Gerhard Closs Award)^G, "Mechanisms of Biradical Initiated Photoaffinity Labeling with Naphthalene Diimides," Winter Conference of the Interamerican Photochemical Society Meeting, St. Petersburg, FL, January 2018. S(P)
28. **Kelly, L. A.***, (Sova, S.)^G, "Mechanism of Photooxidative Crosslinking and Photoaffinity Labeling with Naphthalene Imides and Diimides," Fall National Meeting of the American Chemical Society, Washington, DC, August 2017. S(O)
29. (Rodriguez, L.), Sova, S.^G, **Kelly, L. A.***, "Monitoring Phase Changes in Temperature-Sensitive Polymers using Solvatochromic Fluorophores," 20th Summer Undergraduate Research Fest (SURF), University of Maryland, Baltimore County, August 9, 2017. S(P)
30. (Pagarigan, K.)^U, **Kelly, L. A.***, "Optimization of Alkyl Radical Synthesis via Photoinduced Decarboxylation," 21st University Research and Creative Achievement Day, University of Maryland, Baltimore County, April 26, 2017. S(P)
31. **Kelly, L. A.***, (Sova, S.)^G, "Photooxidative Crosslinking and Photoaffinity Labeling with Naphthalene Imides and Diimides," Graduate Research Conference, University of Maryland, Baltimore County, March 29, 2017. S(O)

32. **Kelly, L. A.***, (Sova, S.)^G, "*Photoaffinity Labeling and Photooxidative Crosslinking with Tyrosine-functionalized Naphthalene Imides and Diimides*," University of Maryland, Baltimore County Biotech Symposium, January 27, 2017. S(O)
33. (Castillo, E.), **Kelly, L. A.***, "*Utilizing Solvatochromic Dyes to Probe Phase Changes in Stimuli Responsive Nanogels*," 19th Summer Undergraduate Research Fest (SURF), University of Maryland, Baltimore County, August 10, 2016. S(P)
34. **Kelly, L. A.***, (Sova, S. – ASP Student Travel Award Recipient)^G, "*Photooxidative Crosslinking and Affinity Labeling of Proteins Using Naphthalene Imides*," Biennial Meeting of the American Society for Photobiology, Tampa, Florida, May 22, 2016. S(O)
35. **Kelly, L. A.***, (Sova, S.)^G, "*Naphthaldiimides as Potential Photoaffinity Labels*," Graduate Research Conference, University of Maryland, Baltimore County, March 23, 2016. S(O)
36. **Kelly, L. A.***, Mang, S.*, (Honick, C.)^U, (Gibson, B.)^U, "*A Portable Detection Platform for Hypochlorite via Chemiluminescence*," University Research and Creative Achievement Day, University of Maryland, Baltimore County, April 22, 2015. S(P)
37. **Kelly, L. A.***, Mang, S.*, (Schultheis, E.)^U, (Waris, W.)^U, "*Briggs-Rauscher Oscillating Color Change Reaction*," 19th University Research and Creative Achievement Day, University of Maryland, Baltimore County, April 22, 2015. S(P)
38. **Kelly, L. A.***, (Mattison, J.)^U, "*Synthesis of N-Substituted Benzoperylene Monoimide Fluorophores for Incorporation in Polyacrylamide Nanogels*," 19th University Research and Creative Achievement Day, University of Maryland, Baltimore County, April 22, 2015. S(P)
39. (Sova, S.)^G, **Kelly, L. A.***, "*Naphthalimide Derivatives Selective Interactions with Proteins*," Graduate Research Conference, University of Maryland, Baltimore County, March 25, 2015. S(O)
40. (Sova, S.)^G, **Kelly, L. A.***, "*Reactions of Proteins with the Ground and Excited States of Tyrosine (Ni-Tyr) and Alanine (NI-Ala)*," The Protein Society Symposium, University of Maryland, Baltimore County, January 14, 2015. S(O)
41. Razdan, V.^U, Arnold, B., **Kelly, L. A.**, (Singh, N. B.)*, Choa, F-S., Duval, W.^U, "*Effect of Solidification Parameters on the Performance of Energy Storage Materials*," The American Ceramic Society at Materials Science and Technology Conference, Pittsburgh, PA., October 12, 2014. (O)
42. (Singh, N. B.)*, Arnold, B., **Kelly, L. A.**, Thomson, D.^U, Rai, R.^U, Choa, F-S., "*Effect of Impurities on the Solidification Morphology of the Al-Si Alloys in Dynamic Condition*," The American Ceramic Society at Materials Science and Technology Conference, Pittsburgh, PA, October 12, 2014. (O)

43. (Manning, S.)^G, **Kelly, L. A.***, "*Benzo[ghi]perylene Monoimide-Doped Nanogels as Ratiometric Molecular Thermometers*," 24th Winter Conference of the Inter-American Photochemical Society, Sarasota, FL, January 3, 2013. S(P)
44. Manning, S.^G, **Kelly, L. A.***, Arthur, J. A.^G, "*Photophysics and Sensing Applications of Benzo[ghi]perylene Monoimides*," 34th Graduate Research Conference, University of Maryland, Baltimore County, April 27, 2012. S(P)
45. (Manning, S.)^G, Bogen, W.^U, Tietz, R.^U, **Kelly, L. A.***, "*Self-Reporting Fluorescent Nanogels*," A Look Ahead XV, University of Maryland, Baltimore County, April 13, 2011. S(P)
46. (Manning, S.)^G, **Kelly, L. A.***, "*Polarity Responsive Benzo[ghi]perylene Monoimides and Their Incorporation into Temperature-Responsive Acrylamide Gel Matrices*," 33rd Graduate Research Conference, University of Maryland, Baltimore County, April 29, 2011. S(P)
47. (Bogen, W. – 1st Place Winner)^U, Manning, S.^G, **Kelly, L. A.***, "*Synthesis of Swallowtail-Substituted Benzoperylene Monoimides*," 13th Annual Undergraduate Research Symposium in the Chemical and Biological Sciences, University of Maryland, Baltimore County, October, 2010. S(P)
48. (Manning, S. – 1st Place Winner)^G, Bogen, W.^U, **Kelly, L. A.***, "*Development of Fluorescent Temperature-Responsive Nanogels*," 32nd Graduate Research Conference, University of Maryland, Baltimore County, April 30, 2010. S(P)

Patents

1. Sample, Jennifer L., Patrone, Julia B., Benkoski, Jason J., Breidenich, Jennifer L., **Kelly, Lisa A.**, Le, Huong, Crookston, James C., Patchan, Marcia W., Garza, Luis, Calderon-Colon, Xiomara, Wolfe, Joshua T., Theodore, Melissa, L., Nelson, Amanda, Kang, Sewon, "*Topical Compositions and Methods of Detection and Treatment*," U.S. Patent 10,758,630, September 1, 2020.
2. Trexler, Morgan, M., Zhang, Dajie., **Kelly, Lisa A.**, Sample, Jennifer L., Brupbacher, John M., "*Method of Producing Nanoparticle Taggants for Explosive Precursors*," U.S. Patent 9,162,514, October 20, 2015.
3. Trexler, Morgan, M., Zhang, Dajie., **Kelly, Lisa A.**, Sample, Jennifer L., Brupbacher, John M., "*Nanoparticle Taggants for Explosive Precursors*," U.S. Patent 8,895,158 B2, November 25, 2014.

SERVICE - PROFESSION

- 2022 **Symposium Organizer and co-Chair**, “*Photochemistry and Photophysics in Materials – A Pan-American Symposium*,” 41st Biennial Meeting of the American Society of Photobiology, Albuquerque, NM, September 22 – 25, 2022.
- 2020 Review Panel Member, National Science Foundation Chemical Structure, Dynamics and Mechanisms (CSDM)-B “*Mechanisms and Photochemistry*.”
- 2018 **Symposium Organizer and co-Chair**, “*Organic and Inorganic Photochemistry of Functional Materials: A Pan-American Perspective*,” 2018 Biennial Meeting of the American Society for Photobiology, Tampa, FL, May 12 – 15, 2018.
- 2018 Symposium Moderator, “*Synthetic and Supramolecular Photochemistry*,” 27th Inter-American Photochemical Society Meeting, Sarasota, FL, January 2 – 5, 2018.
- 2017 - Present Member, Awards Committee, American Society for Photobiology.
- 2016 **Symposium Organizer and co-Chair**, “*Current Trends in Photochemistry and Imaging*,” 2016 Biennial Meeting of the American Society for Photobiology, Tampa, FL, May 21 – 26, 2016.
- 2008 **Conference Organizer and co-Chair**, 34th Annual Meeting of the American Society for Photobiology, Burlingame, CA, June 20 – 25, 2008.
- 2005 - 2006 **Elected President**, American Society for Photobiology.
- 2005 Panelist and Moderator, 16th Winter Conference of the Inter-American Photochemical Society, Clearwater Beach, FL, January 2 – 5, 2005 .
- 2004 **Symposium Organizer and co-Chair**, “*Mechanisms of Protein Oxidative Damage*,” 32nd Annual Meeting of the American Society for Photobiology, Seattle, WA, July 10 – 14, 2004.
- 2004 Review Panel Member, National Institutes of Health Minority Biomedical Research Support (MBRS).
- 2004 Review Panel Member, National Science Foundation Chemical Research Instrumentation and Facilities (CRIF).
- 2004 - 2005 **President-Elect**, American Society for Photobiology.

- 2003 **Symposium Organizer and co-Chair**, “*Photochemical Tools in Genomics and Proteomics*,” 31s Annual Meeting of the American Society for Photobiology, Baltimore, MD, July 5 – 9, 2003.
- 2003 Panelist and Moderator, 14th Winter Conference of the Inter-American Photochemical Society, Clearwater Beach, FL, Jan. 2 – 5, 2003.
- 2002 - 2005 **Associate Editor**, *Photochemistry and Photobiology*.
- 2002 - 2004 Member, Advisory Board of the Inter-American Photochemical Society.
- 2002 Panelist and Moderator, 13th Winter Conference of the Inter-American Photochemical Society, Tempe, AZ, Jan. 2 – 6, 2002.
- 1998 - 2002 **Elected Council Member**, American Society for Photobiology.
- 1998 - 2006 **Elected Treasurer**, Inter-American Photochemical Society.
- 1998 - 2000 Member, Users’ Executive Committee of the National Synchrotron Light Source, Brookhaven National Laboratory, Upton, NY.

Professional Memberships

Inter-American Photochemical Society, American Society for Photobiology, American Chemical Society

Peer Review

Funding Agencies: National Science Foundation (including CAREER proposals), National Institutes of Health, American Chemical Society Petroleum Research Fund, Research Corporation, Cottrell Scholars

Journals: *Journal of the American Chemical Society, Journal of Physical Chemistry A, B and C, Photochemistry and Photobiology, Photochemical and Photobiological Sciences, Langmuir, Journal of Organic Chemistry, Chemistry of Materials, Organic Letters, Free Radicals Research, New Journal of Chemistry, Molecular Pharmaceuticals, Materials Chemistry Frontiers*

SERVICE - UNIVERSITY

- 2024 - Present **Elected Member**, UMBC University Faculty Review Committee
- 2022 - Present **Invited Member**, ADVANCE Executive Committee
- 2022 - Present STRIDE Fellow (**Invited**)

2016 - 2017	Member, Library Strategic Framework Committee
2016	Member, Scholar Works Advisory Committee
2013 - 2019	Member , ADVANCE Leadership Alliance (ALA)
2013 - 2014	Member, Faculty Grievance Policy Committee
2013 - 2014	Member, Capricious Grading Committee
2012	Faculty Senate, Department of Chemistry and Biochemistry Representative
2008 - 2010	Member , ADVANCE Leadership Cohort 3
2007	Participant, ADVANCE-Sponsored National Leadership Conference for STEM Women, Baltimore, MD, June 1, 2007
2006	Member, Search Committee for Writing in the Discipline Director
2004 - 2011	Chair , ADVANCE Faculty Sponsorship Committee
2004 - 2005	Panelist, NSF ADVANCE Faculty Horizons Workshop for Aspiring STEM Faculty
2003 - 2010	ADVANCE Faculty Liason to the Department of Chemistry and Biochemistry
2001 - 2006	Member and Reviewer, Provost's Undergraduate Research Awards Committee
2001 - 2011	Faculty Advisor , Undergraduate Women in Science and Engineering (WISE) Group

SERVICE – DEPARTMENT (Since 2005)

2024 - Present	Undergraduate Program Director , Chemistry and Chemical Education
2023 - 2024	Member, Faculty Search Committee (Lecturer)
2023	Member, Laboratory Supervisor Search Committee
2022 -	Member, Chemistry Laboratory Curriculum Alignment Committee
2022 – 2023	Chair , Departmental Promotion and Tenure Committee (Dr. Marie vanStaveren Promotion to Senior Lecturer)
2022 - 2023	Member, Undergraduate Curriculum Alignment Committee
2022	Member, 5-Year Post-Tenure Review Committee (Drs. Katherine Seley-Radtke, Bradley Arnold and Paul Smith)
2020	Member, Departmental Online Assessment Committee

2019 - 2020	Member, Biochemistry Faculty Search Committee
2018 - Present	Instructor , Graduate Summer Bridge (Physical Chemistry)
2018 - 2024	Co-Organizer (Alumni Panel Organizer and Outreach) , Chemistry Graduate Student Research Days held Annually in March
2018 - 2019	Member, Pre-Professoriate Faculty Search Committee
2017 - 2024	Chair , Graduate Student Professional Development Committee
2017	Member, External Reviewer Search Committee (for Departmental 7-Year Review)
2016 - 2017	Co-Chair , Faculty Search Committee (Lecturer)
2016 - 2017	Member, Graduate Recruiting and Admissions Committee
2016	Member, 3 rd Year Contract Renewal Committee (Dr. Minjoung Kyoung)
2016	Member, 5-Year Post-Tenure Review Committee (Dr. Bradley Arnold)
2014 - 2015	Chair , Departmental Promotion and Tenure Committee (Dr. Marcin Ptaszek Promotion with Tenure to Associate Professor)
2014	Member, Planning Committee for UMBC/UMB Research and Innovation Retreat (held at University of Maryland School of Pharmacy, May 3, 2014)
2014	Member, Planning Committee for Departmental Retreat (held on February 22, 2014)
2012 - Present	Departmental Library Liason
2009 - Present	Member, Undergraduate Curriculum Committee
2009 - 2015	Chair , Graduate Recruiting and Admissions Committee
2008 - 2009	Member, Graduate Recruiting Committee
2006 - 2009	Instructor , Graduate Summer Bridge (Physical Chemistry)
2007 - 2008	Chair , Physical Chemistry Faculty Search Committee
2005 - 2006	Member, Departmental Website Committee
2005 - 2006	Member, Departmental Chair Search Committee
2004 - 2007	Coordinator, Writing in the Discipline
2004 - 2005	Chair , Departmental Promotion and Tenure Committee (Dr. Veronika Szalai 3 rd Year Review)