

Oksana G. Ostroverkhova

Curriculum Vita

A. Education and Employment Information

Education

Ph.D.	in Physics , <i>Case Western Reserve University</i> (Cleveland, OH, USA) Thesis: "Nonlinear optical probes and processes in polymers and liquid crystals",	<u>2001</u> (GPA: 4.0/4) Advisor: K. D. Singer
Diploma	in Physics and Optical Engineering , <i>National Taras Shevchenko University</i> (Kyiv, Ukraine) Thesis: "Fast CO ₂ analyzer for medical applications"	<u>1996</u> (GPA: 5.0/5, with highest honors) Advisor: A. S. Skirda

Professional Appointments

2018-present	Professor, <i>Physics Department, Oregon State University</i> , Corvallis, OR, USA
2010-2018	Associate Professor, <i>Physics Department, Oregon State University</i> , Corvallis, OR, USA
2011	Consultant, Nitto-Denko, San Diego, CA, USA
2005-2010	Assistant Professor, <i>Physics Department, Oregon State University</i> , Corvallis, OR, USA
2003-2005	Killam Memorial Postdoctoral Fellow, <i>Physics Department, University of Alberta</i> , Edmonton, AB, Canada (Postdoctoral advisor: F. A. Hegmann)
2001-2003	Postdoctoral Scholar, <i>Chemistry Department, Stanford University</i> , Stanford, CA, USA (Postdoctoral advisor: W. E. Moerner)
1997-2001	Research Assistant, <i>Physics Department, Case Western Reserve University</i> , Cleveland, OH, USA
1996-1997	Teaching Assistant, <i>Physics Department, Case Western Reserve University</i> , Cleveland, OH, USA

Honors and Awards

OSU College of Science SciRis II Award (2021) and SciRis Type 2 Award (2023)

APS Woman Scientist of the Month (May 2017)

OSU Milton Harris Award in Basic Research (2016)

OSU Loyd Carter Award for "outstanding and inspirational teaching" (graduate level) (2016)

OSU College of Science Scholar (2012-2013)

NSF CAREER Award (2008)

OSU Loyd Carter Award finalist (1 out of 4) for "outstanding and inspirational teaching" (2007, 2013, 2019)

ACS PRF Award (2006)

Izaak Walton Killam Memorial Postdoctoral Fellowship, University of Alberta, Canada (2002-2004)

Cited in the 59th and 64th Editions of Marquis Who's Who in America (2004 and 2009)

University Excellence Scholarship, National Taras Shevchenko University, Ukraine (1991-1996)

International Soros Science Education Program (ISSEP) student excellence grant (1995)

B. Teaching, advising, and other assignments

Instructional summary

Credit Courses

Course	Term	Yr
PH 652 Quantum Mechanics II	Winter	2005
PH 653 Quantum Mechanics III	Spring	2005
PH 651 Quantum Mechanics I	Fall	2005
PH 652 Quantum Mechanics II	Winter	2006
PH 651 Quantum Mechanics I	Fall	2006
PH 652 Quantum Mechanics II	Winter	2007
PH 653 Quantum Mechanics III	Spring	2007
PH 651 Quantum Mechanics I	Fall	2007
PH 652 Quantum Mechanics II	Winter	2008
PH 653 Quantum Mechanics III	Spring	2008
PH 481/581 Optics	Winter	2009
PH 481/581 Optics	Winter	2010
PH 481/581 Optics	Winter	2011
PH 481/581 Optics	Winter	2012
PH 585 Atomic, Molecular, and Optical Physics	Spring	2009
PH 585 Atomic, Molecular, and Optical Physics	Spring	2010
PH 585 Atomic, Molecular, and Optical Physics	Spring	2011
PH461/561/505 Mathematical Methods	Fall	2009
PH 673 Nanoscience and Nanotechnology	Fall	2010
PH 673 Nanoscience and Nanotechnology	Fall	2012
PH 681 Modern Optics	Fall	2011
PH 682 Semiconductor Optics	Fall	2013
PH 424 Waves	Winter	2014
PH 426 Central Forces	Spring	2014
PH 673 Nanoscience and Nanotechnology	Fall	2014
PH 424 Waves	Winter	2015
PH 426 Central Forces	Spring	2015
PH 424 Waves	Winter	2016
PH 426 Central Forces	Spring	2016
PH 651 Quantum Mechanics I	Fall	2016
PH 652 Quantum Mechanics II	Winter	2017
PH 653 Quantum Mechanics III	Spring	2017
PH 651 Quantum Mechanics I	Fall	2017
PH 651 Quantum Mechanics I	Fall	2018
PH 652 Quantum Mechanics II	Winter	2019
PH 653 Quantum Mechanics III	Spring	2019
PH 651 Quantum Mechanics I	Fall	2019
PH 652 Quantum Mechanics II	Winter	2020
PH 653 Quantum Mechanics III	Spring	2020
PH 651 Quantum Mechanics I	Fall	2020
PH 652 Quantum Mechanics II	Winter	2021
PH 653 Quantum Mechanics III	Spring	2021
PH 651 Quantum Mechanics I	Fall	2021
PH 652 Quantum Mechanics II	Winter	2022
PH 653 Quantum Mechanics III	Spring	2022
PH 651 Quantum Mechanics I	Fall	2022

PH 652 Quantum Mechanics II	Winter	2023
PH 653 Quantum Mechanics III	Spring	2023
PH 651 Quantum Mechanics I	Fall	2023

Graduate and Undergraduate Students and Postdoctoral Trainees

Postdoctoral Trainees

1.	Dr. E. K. Tanyi	03/2019-03/2021 (co-advised with Prof. L.-J. Cheng)
2.	Dr. Keshab Paudel	10/ 2012-08/2015
3.	Dr. Rajesh K. R.	12/2013-12/2014

Major Professor

4.	Kevin Dimmitt	Ph. D. student	3 rd year student
5.	Matt O'Meara	Ph. D. student	3 rd year student
6.	Vivek Jain	M. S.	2023
7.	Piper Aislinn	Ph. D. student	3 rd year student
8.	Evan Lambertson	M. S.	2022
9.	Michael Chase	Ph.D. student	M.S. 2023, 4 th year student
10.	Roshell Lamug	Ph.D. student	M.S. 2022, 4 th year student
11.	Winston Goldthwaite	Ph.D. student	M.S. 2021, 5 th year student
12.	Carter Webber	M. S.	2021
13.	Jonathan Van Schenck	Ph. D.	2021
14.	Greg Giesbers	Ph. D.	2021
15.	Novela Auparay	M. S.	2018
16.	Robert Harrison	M. S.	2017
17.	Nicole Quist	Ph. D.	2021
18.	Rebecca Grollman	Ph. D.	2017
19.	Brian Johnson	Ph. D.	2015
20.	Kati Bilty	M. S.	2013
21.	Whitney Shepherd	Ph.D.	2012
22.	Mark Kendrick	Ph.D.	2012
23.	Andrew Platt	Ph. D. student	2005-2010
24.	Jonathan Day	Ph.D.	2008

Co-advisor (Ph.D. students)

1.	Siddartha Bhowmik (co-advised with Prof. S. Atre)	Ph.D. (Mech.Eng.)	2009
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Senior Project Mentor

1.	Claire Swarz	B.S. (Physics, Chem.)	expected 2024
2.	Roan Luikart	B.S. (Physics, Math.)	expected 2025
3.	Madalyn Gragg	B.S. (Physics, Mech. Eng.)	expected 2025
4.	Lucas Parvin	B. S. (Zoology, Hon.)	2022
5.	Rebecca Munk	B. S. (Physics) student	2023
6.	Ross Dewbury	B.S. (Physics)	2020
7.	Richard Puro	B.S. (Physics)	2021
8.	Cameron Wiesner	B.S. (Physics)	2020
9.	Reid Center	B.S. (Physics)	2020
10.	Jasper Spafford	B.S. (Physics)	2020
11.	David Haas	B.S. (Physics)	2019
12.	Ryan Tollefsen	B.S. (Physics, Hon.)	2020
13.	Mark Li	B.S. (Chem E)	2019
14.	Richard Wallace	B.S. (Physics)	2017
15.	Alexander Quinn	B.S. (Physics)	2018

16.	Graham Founds	B.S. (Physics)	2017
17.	Jeremy Rath	B.S. (Physics)	2016
18.	Jacob Busche	B.S. (Physics, Honors)	2015
19.	Alex Robertson	B. S. (Nucl. Eng.)	2015
20.	Mattson Thieme	B.S. (Physics)	2014
21.	Kyle Peters	B. S. (Physics)	2013
22.	Afina Neunzert	B. S. (Physics, Honors)	2013
23.	Keith Schaefer	B. S. (Physics)	2012
24.	Kyle Williams	B.S. (Physics)	2012
25.	Thomas Hathaway	B. S. (Physics)	2011
26.	Jessica Gifford	B. S. (Physics, Honors)	2011
27.	Garrett Banton	B. S. (Nucl. Eng.)	2011
28.	Mark Mazurier	B.S (Physics)	2007
29.	Joseph Peterson	B.S. (Physics)	2006
30.	Zach Peterson	B.S. (Physics)	2006

Summer/Internship Project Mentor

1.	Johannes Huurman	B. S. (Physics, Math)	expected 2024
2.	Michael Hilderbrandt	B. S. (Physics)	expected 2024
3.	Mallory Kirms	B.S. (Physics)	expected 2024
4.	Ryan Leopold	B.S. (Physics)	2022
5.	Alex Widmer	B.S. (Physics) student	expected 2023
6.	Michael Brodeur	B. S. (Chem)	2023
7.	Malachi Fisher	B.S. (EECS)	2020
8.	Michael Trumbull	B.S. (Physics)	2019
9.	Thomas Gilray	B.S. (Comp. Sc.)	2010
10.	David Hofer	post-bacc (Physics)	2010
11.	Guy Cutting	B.S (Comp. Phys.) student	2008
12.	Dustin Quandt	B.S. (Env. Sc.)	2010
13.	Samuel Peterson	B. S. (Physics)	2008

Graduate/Honors College Committee Member

1.	Jared Parker	Ph. D.	current student
2.	Christian Cunningham	Ph. D.	current student
3.	Viela Guay	Ph. D.	current student
4.	Lupe Macintosh	Ph. D.	current student
5.	Lucas Kolanz	Ph. D.	current student
6.	Robin Case	Ph. D.	current student
7.	Dublin Nichols	Ph. D.	M.S. 2021, current Ph. D. student
8.	Yuan Gao	Ph. D.	current student
9.	Guanyu Li	Ph. D.	M.S. 2020, current Ph.D. student
10.	Spencer Thorp	Ph. D.	current student
11.	Nathan Walker	Ph. D.	current student
12.	Ben Bauml	Ph. D.	M.S. 2023, current Ph.D. student
13.	Pritha Biswas	Ph.D.	current student
14.	Max Siebersma	B.S. (Hon.)	2023
15.	Michelle Jeliaskova	B.S. (Hon.)	2021
16.	Alden Bradley	Ph. D.	2018-2022
17.	George Mattson	Ph.D.	2022
18.	Gina Mayonado	Ph.D.	2023
19.	Kirstie Finster	Ph. D.	2022
20.	Carly Fengel	Ph. D.	2021
21.	Mitchell Senger	Ph. D.	2021
22.	Daniel McCulley	Ph. D.	2020
23.	Amani Alobaidi	Ph. D.	2018

24.	Ali Mousavian	Ph. D.	2018
25.	Jihan Kim	Ph. D.	2019
26.	Kyle Vogt	Ph. D.	2020
27.	Andrew Stickel	Ph. D.	2016
28.	Lee Aspitarte	Ph. D.	2017
29.	Matt Cibula	Ph. D.	2015
30.	Michael Paul	Ph. D.	2014
31.	Peter Wojcik	M. S.	2012
32.	Louis Maizy	M.S.	2012
33.	Chris Reidy	Ph. D.	2018
34.	Tal Sharf	Ph. D.	2014
35.	Tristan DeBorde	Ph. D.	2014
36.	Jason Francis	Ph. D.	2013
37.	Zach Thomson	Ph. D.	2015
38.	Ali Almaqwashi	M. S.	2012
39.	Sukosin Thongrattanasiri	Ph.D.	2010
40.	Andriy Zakutayev	Ph. D.	2010
41.	Nicholas Kuhta	Ph. D.	2012
42.	Seongweon Park	Ph.D.	2012
43.	Matt Leyden	Ph. D.	2011
44.	Joseph Tomaino	Ph.D.	2011
45.	Andy Jameson	Ph.D.	2012
46.	Landon Prisbrey	Ph.D.	2011
47.	Denny Jackson	Ph. D.	2011
48.	Vincent Rossi	Ph. D.	2015
49.	Robynne Kirkpatrick	Ph.D.	2008
50.	Zachary Wiren	Ph.D.	2008
51.	Jon Shanks	M. S.	2007
52.	Matt Neel	M. S.	2007
53.	Joel Wetzel	M.S.	2006

Team or Collaborative Efforts

NSF MIP, MRSEC, PIRE, MRI proposals

Active participation in Paradigms 2.0 activities

Experimental demonstrations in lasers and nonlinear optics for ECE482 and 483 courses (taught by Prof. T. Plant)

Upgrade of optics instructional labs (with Profs. D. McIntyre, W. Hetherington, T. Plant); restructuring undergraduate electronics sequence (with Profs. D. McIntyre and W. Qiu)

B. Scholarship and Creative Activity

Google Scholar profile: <https://scholar.google.com/citations?user=HENlUfEAAAAJ&hl=en>

Full Publication List

Books and Invited book chapters

1. G. Giesbers, M. Brodeur, R. Van Court, S. Robinson, **O. Ostroverkhova**, "From blue pigment to green technology: properties and applications of fungi-derived pigment xylindein", in *Fungal Biopolymers and Biocomposites*, edited by S. Deshmukh, Springer Nature, 2022
2. "Handbook of Organic Materials for Electronic and Photonic Devices", edited by **O. Ostroverkhova**, 2nd Edition, Elsevier, 2019.

3. **O. Ostroverkhova**, "Organic and polymeric photorefractive materials and devices", in "Introduction to organic electronic and optoelectronic materials and devices", edited by S. Sun and L. Dalton, CRC Taylor & Francis, 2nd Edition, 2016.
4. "Handbook of Organic Optical and Optoelectronic Materials and Devices", edited by **O. Ostroverkhova**, Woodhead publishing, Cambridge, UK, 2013.
5. **O. Ostroverkhova**, "Photophysical and photoconductive properties of novel organic semiconductors and their composites", in "New trends in organic electronics", edited by C. Santato and F. Cicoira, Wiley VCH Verlag GmbH, 2013.
6. **O. Ostroverkhova**, "Optical and electronic properties of organic semiconductors", in "Encyclopedia of Nanoscience and Nanotechnology" edited by H.S. Nalwa, American Scientific Publishers, 2011.
7. **O. Ostroverkhova**, A. D. Platt, W. E. B. Shepherd, "Optical, photoluminescent, and photoconductive properties of novel high-performance organic semiconductors", in "Advances in Lasers and Electro-Optics", edited by V. Kordic, In-Tech Publishing, 2010.
8. A. D. Platt, J. Day, W. E. B. Shepherd, and **O. Ostroverkhova**, "Photophysical and photoconductive properties of novel organic semiconductors", in "Organic Thin Films for Photonic Applications", American Chemical Society Publishing, edited by W. Herman and S. Foulger, 2010.
9. **O. Ostroverkhova**, "Organic and polymeric photorefractive materials and devices", in "Introduction to organic electronic and optoelectronic materials and devices", edited by S. Sun and L. Dalton, CRC Taylor & Francis, pp.607-636, 2008.
10. F. A. Hegmann, **O. Ostroverkhova**, and D. G. Cooke, "Probing organic semiconductors with terahertz pulses", in "Photophysics of Molecular Materials", edited by G. Lanzani, Wiley-VCH, Weinheim, Germany, pp.367-428, 2006.

Refereed journal articles

1. **O. Ostroverkhova**, W. Goldthwaite, R. Lamug, "Excitons and polaritons in singlet fission materials: photophysics, photochemistry, and optoelectronics", **invited**, *MRS Bulletin*, in preparation (2023). *Topical review article for a thematic issue on Excitonic Materials*.
2. W. Goldthwaite, M. Gragg, M. Chase, R. Lamug, J. Anthony, **O. Ostroverkhova**, "Investigating nonradiative processes in functionalized acenes through photodegradation", *MRS Advances*, in preparation (2023).
3. L. Parvin, I. Padgett, N. Anderson, **O. Ostroverkhova**, J. Rivers, "Floral-devoid perennial grass seed fields harbor a diversity of native bees", *Journal of the Kansas Entomological Society*, in revision (2023).
4. J. Sommers, J. Amador, L. Fullmer, D. Hutchison, T. Surta, **O. Ostroverkhova**, M. Nyman, D. Keszler "Three phases of basic Zirconium and Hafnium hydroxohalides", *Inorganic Chemistry ASAP article*, <https://doi.org/10.1021/acs.inorgchem.3c00633> (2023)
5. G. Mayonado, K. Vogt, J. Van Schenck, L. Zhu, G. Fregoso, J. Anthony, **O. Ostroverkhova**, M. Graham, "High-Symmetry Anthradithiophene Molecular Packing Motifs Promote Thermally Activated Singlet Fission", *Journal of Physical Chemistry C* **126**, 4433-4445 (2022) Special issue: *Quantum Coherent Phenomena in Energy Harvesting and Storage*
6. T. Krueger, J. Solaris, L. Tang, L. Zhu, C. Webber, R. Van Court, S. Robinson, **O. Ostroverkhova**, C. Fang, "Illuminating Excited-State Intramolecular Proton Transfer of a Fungi-Derived Red Pigment for Sustainable Functional Material", *Journal of Physical Chemistry C* **126**, 459-477 (2022) Special issue: *Quantum Coherent Phenomena in Energy Harvesting and Storage*
7. J. Van Schenck, W. T. Goldthwaite, R. Puro, J. Anthony, **O. Ostroverkhova**, "Exciton Polaritons Reveal "Hidden" Populations in Functionalized Pentacene Films" *Journal of Physical Chemistry C* **125** , 27381-27393 (2021) Special issue: *W.E. Moerner Festschrift*
8. R. Puro, J. Van Schenck, R. Center, E. Holland, J. Anthony, **O. Ostroverkhova**, "Exciton Polariton-Enhanced Photodimerization of Functionalized Tetracene" *Journal of Physical Chemistry C* **125** , 27072-27083 (2021)
9. T. Krueger, L. Tang, G. Giesbers, R. C. Van Court, L. Zhu, S. Robinson, **O. Ostroverkhova**, C. Fang, "Ultrafast Triplet State Formation in a Methylated Fungi-Derived Pigment: Toward Rational Molecular Design for Sustainable Optoelectronics" *Journal of Physical Chemistry C* **125** , 17565-17572 (2021)
10. G. Giesbers, T. Krueger, J. Van Schenck, R. Kim, R. C. Van Court, S. Robinson, C. Beaudry, C. Fang, **O. Ostroverkhova** "Role of hydroxyl groups in the photophysics, photostability, and (opto)electronic properties of the fungi-derived pigment xylindein" *Journal of Physical Chemistry C* **125** , 6534-6545 (2021)

11. T. Krueger, G. Giesbers, R. C. Van Court, L. Zhu, R. Kim, C. Beaudry, S. Robinson, **O. Ostroverkhova**, C. Fang “Ultrafast dynamics and photoresponse of a fungi-derived pigment xylindein from solution to thin films” *Chemistry - A European Journal* **27** , 5627-5631 (2021) doi.org/10.1002/chem.202005155 **Hot paper**
12. R. C. Van Court, G. Giesbers, **O. Ostroverkhova**, S. Robinson, “Optimizing xylindein from *Chlorociboria* spp. for (opto)electronic applications” *Processes* **8** , 1477 (2020) https://doi.org/10.3390/pr8111477
13. J. Van Schenck, G. Mayonado, J. Anthony, M. Graham, and **O. Ostroverkhova**, “Molecular packing-dependent exciton dynamics in functionalized anthradithiophene derivatives: from solutions to crystals” *Journal of Chemical Physics* **153** , 164715 (2020) https://doi.org/10.1063/5.0026072. Selected by the Editors as **Featured Article**
14. K. Tanyi, N. Hong, T. Sawyer, J. Van Schenck, G. Giesbers, **O. Ostroverkhova**, L. J. Cheng, “Strong exciton-plasmon coupling in dye-doped film on a planar hyperbolic metamaterial” *Optics Letters* **45** , 6736 (2020) https://doi.org/10.1364/OL.402210
15. G. Giesbers, J. Van Schenck, R. Van Court, S. Vega Gutierrez, S. Robinson, and **O. Ostroverkhova**, “Xylindein: Naturally Produced Fungal Compound for Sustainable (Opto)electronics” *ACS Omega* **4** , 13309-13318, DOI: 10.1021/acsomega.9b01490, 2019.
16. J. Van Schenck, E. K. Tanyi, L.-J. Cheng, J. Anthony, and **O. Ostroverkhova**, “Strong exciton–photon coupling in anthradithiophene microcavities: from isolated molecules to aggregates” *MRS Communications* **9** , 956-963, doi:10.1557/mrc.2019.101, 2019.
17. G. Giesbers, T. Krueger, J. Van Schenck, R. Van Court, J. Morre, C. Fang, S. Robinson, and **O. Ostroverkhova**, “Fungi-derived xylindein: effect of purity on optical and electronic properties” *MRS Advances* **4** , 1769-1777, https://doi.org/10.1557/adv.2019.269, 2019.
18. K. Paudel, G. Giesbers, J. Van Schenck, J. Anthony, **O. Ostroverkhova**, “Molecular packing-dependent photoconductivity in functionalized anthradithiophene crystals”, *Organic Electronics* **67** , 311-319, 2019.
19. **O. Ostroverkhova**, G. Galindo, C. Lande, J. Kirby, M. Scherr, G. Hoffman, S. Rao, “Understanding innate preferences of wild bee species: responses to wavelength-dependent selective excitation of blue and green photoreceptor types” *Journal of Comparative Physiology A* **204** (7), 667-675, DOI:10.1007/s00359-018-1269-x, 2018.
20. G. Giesbers, J. Van Schenck, S. Vega Gutierrez, S. Robinson, **O. Ostroverkhova**, “Fungi-Derived Pigments for Sustainable Organic (Opto)Electronics” *MRS Advances*, **3** , 3459-3464, DOI: 10.1557/adv.2018.446, 2018.
21. J. Van Schenck, G. Giesbers, A. Kannegula, L. J. Chang, J. Anthony, **O. Ostroverkhova**, “Molecular Packing-Dependent Exciton and Polariton Dynamics in Anthradithiophene Organic Crystals” *MRS Advances* **3** , 3465-3470, DOI: 10.1557/adv.2018.471, 2018.
22. R. Grollman, G. Founds, R. Wallace, and **O. Ostroverkhova**, “Simultaneous fluorescence and surface charge measurements on organic semiconductor-coated silica microspheres in (non)polar liquids”, *Optics Express* **25** , 29161-29171, 2017.
23. R. Grollman, N. Quist, A. Robertson, J. Rath, B. Purushothaman, M. M. Haley, J. E. Anthony, and **O. Ostroverkhova**, “Single-molecule insight into nanoscale environment-dependent photophysics in blends” , *Journal of Physical Chemistry C* **121** , 12483-12494, 2017 (DOI: 10.1021/acs.jpcc.7b03729).
24. **O. Ostroverkhova**, “Organic Optoelectronic Materials: Mechanisms and Applications” *Chemical Reviews* **116** , 13279-13412, 2016 (http://pubs.acs.org/doi/abs/10.1021/acs.chemrev.6b00127).
25. W. E. B. Shepherd, R. Grollman, A. Robertson, K. Paudel, R. Hallani, M. Loth, J. Anthony, and **O. Ostroverkhova**, “Single-molecule imaging of organic semiconductors: Toward nanoscale insights into photophysics and molecular packing”, *Chemical Physics Letters* **629** , 29-35, 2015.
26. S. Rao and **O. Ostroverkhova**, “Visual outdoor response of multiple wild bee species: highly selective stimulation of a single photoreceptor type by sunlight-induced fluorescence” *Journal of Comparative Physiology A* **201** , 705-716, 2015.
27. K. R. Rajesh, K. Paudel, B. Johnson, R. Hallani, J. E. Anthony, and **O. Ostroverkhova**, “Design of organic ternary blends and small-molecule bulk heterojunctions: photophysical considerations” *Journal of Photonics for Energy* **5** , 057208, 2015.
28. K. Paudel, B. Johnson, M. Thieme, M. Haley, M. M. Payne, J. E. Anthony, **O. Ostroverkhova**, “Enhanced charge photogeneration promoted by crystallinity in small-molecule donor-acceptor bulk heterojunctions”, *Applied Physics Letters* **105** , 043301, 2014.
29. K. Paudel, B. Johnson, A. Neunzert, M. Thieme, B. Purushothaman, M. M. Payne, J. E. Anthony, **O. Ostroverkhova**, “Small-molecule bulk heterojunctions: distinguishing between effects of energy offsets and molecular packing on optoelectronic properties”, *Journal of Physical Chemistry C* **117** , 24752-24760, 2013.

30. B. Johnson, M. J. Kendrick, **O. Ostroverkhova**, "Charge carrier dynamics in organic semiconductors and their donor-acceptor composites: Numerical modeling of time-resolved photocurrent", *Journal of Applied Physics* **114**, 094508, 2013.
31. M. J. Kendrick, A. Neunzert, M. M. Payne, B. Purushothaman, B. D. Rose, J. E. Anthony, M. M. Haley, **O. Ostroverkhova**, "Formation of the donor-acceptor charge-transfer exciton and its contribution to charge photogeneration and recombination in small-molecule bulk heterojunctions", *Journal of Physical Chemistry C* **116**, 18108-18116, 2012.
32. B. Purushothaman, S. Parkin, M. J. Kendrick, D. David, J. Ward, L. Yu, N. Stingelin, O. Jurchescu, **O. Ostroverkhova**, J. E. Anthony, "Synthesis and charge transport studies of stable, soluble hexacenes", *Chemical Communications* **48**, 8261-8263, 2012.
33. A. D. Platt, M. J. Kendrick, M. Loth, J. E. Anthony, **O. Ostroverkhova**, "Temperature dependence of exciton and charge carrier dynamics in organic thin films", *Physical Review B* **84**, 235209, 2011.
34. W. E. B. Shepherd, A. D. Platt, M. J. Kendrick, M. Loth, J. E. Anthony, **O. Ostroverkhova**, "Energy transfer and exciplex formation and their impact on exciton and charge carrier dynamics in organic films", *Journal of Physical Chemistry Letters* **2**, 362-366, 2011.
35. S. Bhowmik, A. Holm, **O. Ostroverkhova**, S. Atre, "Metallic nanostructures in a polymer matrix and substrate fabrication and structural characterization", *Applied Physics A* **103**, 1117-1123, 2011.
36. W. E. B. Shepherd, A. D. Platt, D. Hofer, **O. Ostroverkhova**, M. Loth, J. E. Anthony, "Aggregate formation and its effect on (opto)electronic properties of guest-host organic semiconductors", *Applied Physics Letters* **97**, 163303, 2010. **Selected by the Editor for publication** in the *APL: Organic electronics and photonics* (October 2010)
37. M. J. Kendrick, D. H. McIntyre, and **O. Ostroverkhova**, "Wavelength dependence of optical trapping forces on dye-doped polystyrene microspheres", *Journal of the Optical Society of America B* **26**(11), 2189-2198, 2009. **Also, selected by the Editor for publication** in *Virtual Journal of Biomedical Optics* (December 2009).
38. A.D. Platt, J. Day, S. Subramanian, J. E. Anthony, **O. Ostroverkhova**, "Optical, fluorescent, and (photo)conductive properties of high-performance functionalized pentacene and anthradithiophene derivatives", *Journal of Physical Chemistry C* **113**, 14006-14014, 2009.
39. J. Day, A.D. Platt, S. Subramanian, J. E. Anthony, **O. Ostroverkhova**, "Influence of organic semiconductor-metal interfaces on the photoresponse of functionalized anthradithiophene thin films", *Journal of Applied Physics* **105**, 103703, 2009. **Also, selected by the Editor for publication** in *Virtual Journal of Ultrafast Science* (June 2009).
40. J. Day, A. D. Platt, **O. Ostroverkhova**, S. Subramanian, J. E. Anthony, "Organic semiconductor composites: influence of additives on the transient photocurrent", *Applied Physics Letters* **94**, 013306, 2009. **Also, selected by the Editors for publication** in *Virtual Journal of Ultrafast Science* (February 2009) and in *Virtual Journal of Nanoscience and Technology* (January 2009).
41. O. P. Valmikanathan, **O. Ostroverkhova**, I. S. Mulla, K. Vijayamohan, S. V. Atre, "The effect of synthesis procedure on the structure and properties of palladium/polycarbonate nanocomposites", *Polymer* **49** (16), 3413-3418, 2008.
42. J. Day, S. Subramanian, J. E. Anthony, Z. Lu, R. J. Twieg, **O. Ostroverkhova**, "Photoconductivity in organic thin films: from picoseconds to seconds after excitation", *Journal of Applied Physics* **103**, 123715, 2008.
43. **O. Ostroverkhova**, D. G. Cooke, F. A. Hegmann, R. R. Tykwinski, S. R. Parkin, J. E. Anthony, "Anisotropy of transient photoconductivity in functionalized pentacene single crystals", *Applied Physics Letters* **89**, 192113, 2006. **Also, selected by the Editors for publication** in *Virtual Journal of Ultrafast Science*, December 2006 and in *Virtual Journal of THz Science and Technology*.
44. **O. Ostroverkhova**, D. G. Cooke, F. A. Hegmann, J. E. Anthony, V. Podzorov, M. E. Gershenson, O. D. Jurchescu, T. T. M. Palstra, "Ultrafast carrier dynamics in pentacene, functionalized pentacene, tetracene, and rubrene single crystals", *Applied Physics Letters* **88**, 162101, 2006. **Also, selected by the Editor for publication** in *Virtual Journal of THz Science and Technology*, April 2006.
45. **O. Ostroverkhova**, S. Shcherbyna, D. G. Cooke, R. Egerton, R. R. Tykwinski, S. R. Parkin, J. E. Anthony, F. A. Hegmann, "Optical and transient photoconductive properties of pentacene and functionalized pentacene thin films: Dependence on film morphology", *Journal of Applied Physics* **98**, 033701, 2005. **Also, selected by the Editor for publication** in *Virtual Journal of Ultrafast Science* **4** (9), 2005.
46. M. Asaro, M. Sheldon, Z. Chen, **O. Ostroverkhova**, W. E. Moerner, "Soliton-induced waveguides in an organic photorefractive glass", *Optics Letters* **30** (5), 519-521, 2005.

47. **O. Ostroverkhova**, D. G. Cooke, S. Shcherbina, R. Egerton, R. R. Tykwinski, J. E. Anthony, F. A. Hegmann, "Band-like transport in pentacene and functionalized pentacene thin films revealed by sub-picosecond transient photoconductivity measurements", *Physical Review B* **71**, 035204, 2005.
48. **O. Ostroverkhova** and W. E. Moerner, "Organic Photorefractives: Mechanisms, Materials and Applications", **invited review**, *Chemical Reviews* **104** (7), 3267-3314, 2004.
49. L. Kulikovskiy, D. Neher, E. Mecher, K. Meerholz, H. Horhold, **O. Ostroverkhova**, "Photocurrent dynamics in a PPV-based photorefractive composite", *Physical Review B* **69**, 125216, 2004.
50. Z. Chen, M. Asaro, **O. Ostroverkhova**, W. E. Moerner, M. He, R. J. Twieg "Self-trapping of light in an organic photorefractive glass", *Optics Letters* **28** (24), 2509-2511, 2003.
51. **O. Ostroverkhova**, M. He, R. J. Twieg, W. E. Moerner "Role of temperature in controlling performance of photorefractive organic glasses", *ChemPhysChem* **4** (7), 732-744, 2003 (includes **cover art**).
52. **O. Ostroverkhova**, W. E. Moerner, M. He, R. J. Twieg "High-performance photorefractive organic glass with near-infrared sensitivity", *Applied Physics Letters* **82** (21), 3602-3604, 2003.
53. K. Willets, **O. Ostroverkhova**, M. He, R. J. Twieg, W. E. Moerner, "Novel fluorophores for single-molecule imaging" *Journal of the American Chemical Society* **125** (5), 1174-1175, 2003.
54. **O. Ostroverkhova**, U. Gubler, D. Wright, W. E. Moerner, M. He, A. Sastre-Santos, R. J. Twieg "Recent advances in understanding and development of photorefractive organic glasses," *Advanced Functional Materials* **12** (9), 621-629, 2002.
55. **O. Ostroverkhova** and K. D. Singer "Space-charge dynamics in photorefractive polymers", *Journal of Applied Physics* **92** (4), 1727-1743, 2002.
56. **O. Ostroverkhova**, A. Stickrath, and K. D. Singer "EFISHG studies of chromophore orientational dynamics in photorefractive polymers", *Journal of Applied Physics* **91**(12), 9481-9486, 2002.
57. V. Ostroverkhov, **O. Ostroverkhova**, R. G. Petschek, K. D. Singer, L. Sukhomlinova and R. J. Twieg, "Prospects for chiral nonlinear optical media" , *IEEE Journal of Selected Topics in Quantum Electronics* **7** (5), 781-792, 2001.
58. Y. Reznikov, **O. Ostroverkhova**, K. D. Singer, J.-H. Kim, S. Kumar, O. Lavrentovich, B. Wang, and J. L. West "Photoalignment of liquid crystals by liquid crystals", *Physical Review Letters* **84** (9), 1930-1933, 2000; Reply to Comment: **87** (24), art. No. 249602, 2001.
59. V. Ostroverkhov, **O. Ostroverkhova**, R. G. Petschek, K. D. Singer, L. Sukhomlinova, R. J. Twieg, S.-X. Wang, and L. C. Chien "Optimization of the molecular hyperpolarizability for second harmonic generation in chiral media" *Chemical Physics* **257** (2-3), 263-274, 2000.

Conference proceedings (refereed conferences and/or full-size papers only)

1. G. Mayonado, F. Zhu, W. Goldthwaite, L. Zhu, J. Anthony, **O. Ostroverkhova**, M. Graham, "Optomagneto control of singlet fission charge multiplication dynamics in single organic semiconductor crystals" *CLEO (Optica Tech. Digest)*, doi.org/10.1364/CLEO_FS.2023.FF2G.4, 2023.
2. A. Ullah, R. Lamug, S. Yeasmin, X. Zhang, **O. Ostroverkhova**, L.-J. Cheng, "Highly sensitive photodetector based on inorganic-organic heterojunction phototransistor" *CLEO (Optica Tech. Digest)*, **JTh2A.82**, 2023.
3. W. Goldthwaite, R. Lamug, J. Van Schenck, R. Puro, J. Anthony, O. Ostroverkhova, "Photophysics and photochemistry of functionalized anthradithiophene in microcavities", *Proc. of SPIE*, v. **12199**, 1219903, 2022.
4. E. K. Tanyi, J. Van Schenck, G. Giesbers, **O. Ostroverkhova**, L. J. Cheng, "Strong Coupling Between ADT Molecules and a 2D Nanohole Ag-Grating", *OSA Tech. Digest*, **JTh3A.29**, 2021
5. G. Mayonado, K. Vogt, J. Van Schenck, **O. Ostroverkhova**, M. Graham, "Packing morphology-dependent singlet fission in single crystal ADT derivatives" *OSA Tech. Digest*, **Th2A.4**, 2020.
6. E. K. Tanyi, J. Van Schenck, G. Giesbers, **O. Ostroverkhova**, L. J. Cheng, "Controlling the level of coupling between quantum emitters and planar HMMs" *OSA Tech. Digest*, **JW2D.26**, 2020.
7. N. Quist, M. Li, R. Tollefsen, M. Haley, J. Anthony, **O. Ostroverkhova**, "Effect of molecular side groups and local nanoenvironment on photodegradation and its reversibility" *Proc. of SPIE*, v. **10529**, 105290Z, 2018.
8. R. Harrison, A. Quinn, G. Weber, B. Johnson, J. Rath, V. Remcho, S. Robinson, **O. Ostroverkhova**, "Fungi-derived pigments as sustainable organic (opto)electronic materials" *Proc. of SPIE*, v. **10101**, 101010U, 2017.
9. N. Quist, R. Grollman, J. Rath, A. Robertson, M. Haley, J. Anthony, **O. Ostroverkhova**, "Single molecule-level study of donor-acceptor interactions and nanoscale environment in blends" *Proc. of SPIE*, v. **10101**, 101010K, 2017.

10. R. Grollman, W. Shepherd, A. Robertson, K. Paudel, J. Anthony, **O. Ostroverkhova**, "Photophysics of organic semiconductors: from ensemble to the single-molecule level", *Proc. of SPIE*, **v. 9360**, 93600V, doi: 10.1117/12.2079755, 2015.
11. R. Grollman, J. Busche, **O. Ostroverkhova**, "Optical tweezers-based probe of charge transfer in organic semiconductors at microscopic scales", *Proc. of SPIE*, **v. 9360**, 936016, doi: 10.1117/12.2079813, 2015.
12. B. Johnson, K. Paudel, O. Ostroverkhova, "Computational Modeling of Nanosecond Time-Scale Charge Carrier Dynamics in Organic Semiconductors", *MRS Proceedings*, **v. 1737**, DOI: <http://dx.doi.org/10.1557/opl.2015.501>, 2015.
13. K. Paudel, B. Johnson, M. Thieme, J. Anthony, **O. Ostroverkhova**, "Charge carrier dynamics in small-molecule- and polymer-based donor-acceptor blends" *MRS Proceedings*, **v. 1733**, DOI: <http://dx.doi.org/10.1557/opl.2014.956>, 2014.
14. R. Grollman, K. Peters, **O. Ostroverkhova**, "Surface charge measurements and (dis)charging dynamics of organic semiconductors in various media using optical tweezers", *Proc. of SPIE*, **v. 8983**, 89831N, 2014.
15. B. Johnson, K. Paudel, M. J. Kendrick, **O. Ostroverkhova**, "Numerical modeling of time-resolved photocurrent in organic semiconductor films", *Proc. of SPIE*, **v. 8830**, 88301S, 2013.
16. K. Paudel, B. Johnson, A. Neunzert, M. Thieme, J. Anthony, **O. Ostroverkhova**, "Effects of energy offsets and molecular packing on exciton and charge carrier dynamics in small-molecule donor-acceptor composites", *Proc. of SPIE*, **v. 8827**, 88270Q, 2013.
17. W. E. B. Shepherd, A. D. Platt, G. Banton, D. Hofer, M. Loth, J. E. Anthony, **O. Ostroverkhova**, "Effect of intermolecular interactions on charge and exciplex formation in high-performance organic semiconductors" *Proc. of SPIE*, **v. 7935**, 79350G, 2011.
18. W. E. B. Shepherd, A. D. Platt, M. Loth, J. E. Anthony, O. Ostroverkhova, "Optical, photoluminescent, and photoconductive properties of functionalized anthradithiophene and benzothiophene derivatives" *Proc. of SPIE*, **v. 7599**, 75990R, 2010.
19. A. D. Platt, W. E. B. Shepherd, J. E. Anthony, and **O. Ostroverkhova**, "Photophysical and photoconductive properties of organic semiconductor composites", *SPIE Proceedings* **v.7413**, 74130S, 2009.
20. **O. Ostroverkhova**, A. D. Platt, W. E. B. Shepherd, J. Day, J. E. Anthony, "Optical and electronic properties of functionalized pentacene and anthradithiophene derivatives", *SPIE Proceedings* **v.7413**, 74130A, 2009.
21. M. J. Kendrick, D. H. McIntyre, and **O. Ostroverkhova**, "Optical tweezers with resonant particles", *CLEO/QELS*, Baltimore, MD, USA, June 2009.
22. M. J. Kendrick, D. H. McIntyre, and **O. Ostroverkhova**, "Wavelength dependence of optical tweezer trapping forces on resonant particles", Optical Trapping and Applications Symposium, Vancouver, Canada, April 2009.
23. V.P. Onbattuvelli, S.V. Atre, **O. Ostroverkhova**, V.K. Pillai, "Effect of Particle Morphology and Content on the Properties of Palladium/Polycarbonate Nanocomposites", *Nanotech 2009* (Technical Proceedings of the 2008 NSTI Nanotechnology Conference and Trade Show), Houston, TX, USA, May 2009.
24. A. D. Platt, J. Day, J. E. Anthony, R. J. Twieg, and **O. Ostroverkhova**, "Temperature dependent properties of novel functionalized anthradithiophene and DCDHF derivatives", *CLEO/QELS*, San Jose, CA, USA, May 2008.
25. M. J. Kendrick, D. H. McIntyre, and **O. Ostroverkhova**, "Optical tweezers with resonant particles", *CLEO/QELS*, San Jose, CA, USA, May 2008.
26. A. D. Platt, W. Buchanan, J. Day, J. E. Anthony, and **O. Ostroverkhova**, "Novel functionalized pentacene and anthradithiophene derivatives: fluorescent and photoconductive properties", *Polymer Preprints* **49**(2), 984-985, 2008.
27. **O. Ostroverkhova**, J. Day, A. D. Platt, J. E. Anthony, R. J. Twieg, "Photoexcited charge carrier and exciton dynamics in organic semiconductors", *ICONO 10*, Santa Fe, NM, USA, May 2008.
28. S.V. Atre, S. Bhowmik, O.P. Valmikanathan, **O. Ostroverkhova**, "Fabrication and optical properties of nanoscale arrays of Au and Pd in polymers", *Nanotech 1*, 538-541, 2008. (Technical Proceedings of the 2008 NSTI Nanotechnology Conference and Trade Show).
29. M. J. Kendrick, M. Blanding, D. H. McIntyre, and **O. Ostroverkhova**, "Optical field enhancement in tweezer trapping", *CLEO/QELS*, Baltimore, MD, USA, May 2007.
30. A. D. Platt, J. Day, M. J. Kendrick, S. Subramanian, J. E. Anthony, and **O. Ostroverkhova**, "Fluorescent and photoconductive properties of anthradithiophene and pentacene derivatives", *CLEO/QELS*, Baltimore, MD, USA, May 2007.

31. S.V. Atre, O.P. Valmikanathan, V.K. Pillai, I.S. Mulla and **O. Ostroverkhova**, "The effect of nanoparticle distribution on the structure and properties of palladium/polycarbonate nanocomposites", *Nanotech* 1, 158-161, 2007. (Technical Proceedings of the 2007 NSTI Nanotechnology Conference and Trade Show).
32. M. Bothara, S. Atre, S. Park, R. German, T. Sudarshan, R. Radhakrishnan, and **O. Ostroverkhova**, "Nanoscale SiC sintered Structures for Advanced Microsystems and Power Electronics Packaging", in *Proceedings of 2007 IMAPS/ACerS 3rd International Conference and Exhibition on Ceramic Interconnect and Ceramic Microsystems Technologies*, Co-Published by International Microelectronics and Packaging Society and The American Ceramic Society, Denver, CO, 373-380, 2007.
33. J. Day, **O. Ostroverkhova**, J. E. Anthony, "Fast photoresponse in functionalized pentacene and anthradithiophene thin films", in *Organic Thin-Film Electronics -- Materials, Processes, and Applications*, edited by A.C. Arias, J.D. MacKenzie, A. Salleo, N. Tessler (Mater. Res. Soc. Symp. Proc. **1003E**, Warrendale, PA, 2007), 1003-009-22.
34. **O. Ostroverkhova**, D. G. Cooke, S. Shcherbyna, R. F. Egerton, F. A. Hegmann, R. R. Tykwinski, J. E. Anthony, V. Podzorov, M. E. Gershenson, O. D. Jurchescu, T. T. Palstra, "Ultrafast carrier dynamics in organic semiconductors", in *Materials Research for THz applications*, edited by O. Mitrofanov, X-C. Zhang, R. Averitt, K. Hirakawa, A. Tredicucci (Mater. Res. Soc. Symp. Proc. **935E**, Warrendale, PA, 2006), 0935-K03-07.
35. **O. Ostroverkhova**, D. G. Cooke, F. A. Hegmann, R. R. Tykwinski, S. R. Parkin, J. E. Anthony, "Ultrafast charge carrier dynamics in organic semiconductors", invited, *Organic Thin Films for Photonic Applications*, ACS National Meeting, San Francisco, CA, USA, September 2006.
36. **O. Ostroverkhova**, D. G. Cooke, S. Shcherbyna, R. F. Egerton, F. A. Hegmann, R. R. Tykwinski, J. E. Anthony, V. Podzorov, M. E. Gershenson, O. D. Jurchescu, T. T. Palstra, "Ultrafast photoconductivity in organic semiconductors", *Organic Thin Films Conference, OSA Annual Meeting*, Tucson, AZ, USA, October 2005.
37. **O. Ostroverkhova**, D. G. Cooke, S. Shcherbyna, R. F. Egerton, F. A. Hegmann, R. R. Tykwinski, J. E. Anthony, V. Podzorov, M. E. Gershenson, O. D. Jurchescu, T. T. Palstra, "Ultrafast Photogeneration and Band-like Transport of Mobile Charge Carriers in Organic Semiconductors", *Optical Terahertz Science and Technologies Topical Meeting*, Orlando, FL, USA, March 2005.
38. **O. Ostroverkhova**, W. E. Moerner, Z. Chen, M. Asaro, M. Sheldon, M. He, R. J. Twieg, "Recent advances in photorefractive organic materials", *OSA Trends in Optics and Photonics Series (TOPS)*, **v.99** (Photorefractive Effects, Materials and Devices), 307-312, 2005.
39. **O. Ostroverkhova**, S. Shcherbyna, D. G. Cooke, R. Egerton, R. R. Tykwinski, J. E. Anthony, F. A. Hegmann, "Fast photoresponse in organic semiconductors: understanding the mechanisms and structure-property relationships", *SPIE Proceedings*, **v.5517**, 163-174, 2004.
40. K. Willets, **O. Ostroverkhova**, S. Hess, M. He, R. J. Twieg, W.E. Moerner "Novel chromophores for single molecule imaging", *SPIE Proceedings*, **v.5222**, 150-157, 2003.
41. **O. Ostroverkhova**, U. Gubler, D. Wright, W.E. Moerner, M. He, R.J. Twieg "High performance photorefractive polymer composites and glasses: understanding mechanisms and limitations", *SPIE Proceedings*, **v.4802**, 21-32, 2002.
42. M. He, R.J. Twieg, **O. Ostroverkhova**, U. Gubler, D. Wright, W.E. Moerner "Dicyanomethylenedihydrofuran photorefractive materials", *SPIE Proceedings*, **v.4802**, 9-20, 2002.
43. **O. Ostroverkhova** and K. D. Singer "Influence of composition on the photoconductive and photorefractive properties of PVK composites", *SPIE Proceedings*, **v. 4462**, 163-177, 2001.
44. V. Ostroverkhov, **O. Ostroverkhova**, R.G. Petschek, K.D. Singer, L. Sukhomlinova and R.J. Twieg "Optimization of the nonlinear optical response in chiral media", *SPIE Proceedings*, **v.4279**, 25-36, 2001.

Invited seminars and meetings and symposia participation

Invited seminars and colloquia:

1. **Dept. of Physics, University of San Francisco, San Francisco, CA**, "*Photophysics of organic materials: from ancient pigments to high-performance organic electronics and entomology*" (**September 2023**)
2. **Dept. of Electrical Engineering, Penn State University, State College, PA**, "*Photophysics and photochemistry of organic semiconductors in microcavities*" (**November 2022**)
3. **Dept. of Physics, Reed College, Portland, OR**, "*Photophysics of organic materials: from ancient pigments to high-performance organic semiconductors*" (**February 2022**)

4. **Dept. of Physics, University of Kentucky, Lexington, KY**, "*Photophysics of organic materials: from ancient pigments to high-performance organic semiconductors*" (**October 2021**)
5. **Dept. of Chemistry, University of Oregon, Eugene, OR**, "*Photophysics of organic materials: from ancient pigments to high-performance organic semiconductors*" (**February 2020**)
6. **Dept. of Physics, University of Missouri, Columbia, MS**, "*Photophysics of organic materials: from single crystals to single molecules and from (opto)electronics to entomology*" (**April 2019**)
7. **Dept. of Physics and 50/50 WAVES, University of Massachusetts, Lowell, MA**, presented "*Photophysics of organic materials: from (opto)electronics to entomology...and lessons learned in between*" (**November 2018**)
8. **OSU Innovation Showcase, Corvallis, OR**, presented "Fungi-derived materials for (opto)electronics" (**November 2018**)
9. **Dept. of Physics, OSU, Corvallis, OR**, presented "*Photophysics of organic materials: from single crystals to single molecules and from (opto)electronics to entomology*" (**November 2017**)
10. **Materials Science seminar, OSU, Corvallis, OR**, presented "*Photophysics of organic semiconductors: from single molecules to single crystals*" (**February 2017**)
11. **Dept. of Physics, Case Western Reserve University, Cleveland, OH**, presented "*Photophysics of organic semiconductors: from thin films to the single-molecule level*" (**March 2016**)
12. **Dept. of Physics, Portland State University, Portland, OR**, presented "*Photophysics of organic semiconductors: from thin films to the single-molecule level*" (**March 2015**)
13. **Dept. of Physics, University of Montreal, Montreal, Canada**, presented "*Understanding physics of organic semiconducting materials*" (**January 2012**)
14. **Dept. of Physics, Willamette University, Salem, OR**, presented "*Understanding physics of organic semiconducting materials*" (**November 2011**)
15. **Dept. of Physics, OSU, Corvallis, OR**, presented "*High-performance organic semiconductors: understanding charge carrier and exciton dynamics*" (**November 2009**)
16. **Materials Science Institute, OSU, Corvallis, OR**, presented "*High-performance organic semiconductors: photophysical and photoconductive properties and their manipulation by doping*" (**October 2009**)
17. **Dept. of Chemistry, U of Texas in Austin, Austin, TX**, presented "*High-performance organic semiconductors: photophysical and photoconductive properties and their manipulation by doping*" (**September 2009**)
18. **Dept. of Chemistry, U of Michigan, Ann Arbor, MI**, presented "*High-performance organic semiconductors: photophysical and photoconductive properties and their manipulation by doping*" (**September 2009**)
19. **Dept. of Physics, Case Western Reserve U, Cleveland, OH**, presented "*High-performance organic semiconductors: photophysical and photoconductive properties and their manipulation by doping*" (**September 2009**)
20. **Dept. of Physics, U of Oregon, Eugene, OR**, presented "*Recent advances in organic optoelectronic materials*" (**February 2009**)
21. **Dept. of Physics, Washington State U, Pullman, WA**, presented "*Organic optoelectronic materials: understanding charge carrier dynamics*" (**March 2008**)
22. **College of Optical Sciences, Tucson, AZ**, presented "*Understanding and optimizing performance of photorefractive polymers*" (**April 2006**)

Conference participation and invited talks

1. **(invited) MRS Fall meeting, Boston, MA**, scheduled to present "*Photophysics, photochemistry, and optoelectronics of singlet fission materials in microcavities*" (**November 2023**)
2. **OMQ Symposium, Eugene, OR**, co-authored six presentations given by my students W. Goldthwaite, R. Lamug, M. Gragg (UG), K. Dimmitt, M. O'Meara, Piper Aislinn (September 2023)
3. **(invited) NOMA Mediterranean Workshop, Cetraro, Italy**, presented "*Photophysics, photochemistry, and optoelectronics of organic semiconductors in microcavities*" (**June 2023**)
4. **CLEO conference 2023, San Jose, CA**, co-authored two presentations, "*Optomagnetic control of singlet fission charge multiplication dynamics in single organic semiconductor crystals*" and "*Highly sensitive detector based on*"

- inorganic-organic heterojunction phototransistor*", presented by a collaborator (Prof. M Graham, **invited**) and a co-advised student A. Ullah respectively (May 2023)
5. APS March meeting 2023, Las Vegas, NV, co-authored two presentations, "*Photophysics and (opto)electronics of functionalized acenes and anthradithiophenes in cavities*" and "*Photophysics and photochemistry of singlet fission materials in microcavities*", presented by my students R. Lamug and W. Goldthwaite, respectively (March 2023)
 6. **(invited) SPIE Optics and Optoelectronics, San Diego, CA**, presented "*Photophysics and photochemistry of functionalized acene and anthradithiophene derivatives in microcavities*" **(August 2022)**
 7. CLEO conference 2021, virtual, co-authored a presentation, "*Strong coupling between ADT molecules and 2D nanohole Ag grating*", presented by a co-advised postdoc K. Tanyi (May 2021)
 8. CLEO conference 2020, virtual, co-authored two presentations, "*Packing morphology-dependent singlet fission in single crystal ADT derivatives*" and "*Controlling the level of coupling between quantum emitters and planar HMMs*", presented by co-advised student G. Mayonado and a postdoc K. Tanyi (May 2020)
 9. **(invited) MS&T Fall meeting, Portland, OR**, presented "*Understanding photophysics of organic materials: towards stable and sustainable materials for (opto)electronics*" **(October 2019)**
 10. MRS Spring meeting 2019, Phoenix, AZ, co-authored two presentations (both accepted for oral presentations), "*Photophysical and (opto)electronic properties of fungi-derived pigments and their polymer blends*" and "*Molecular packing dependent photophysics and (opto)electronic properties of functionalized anthradithiophene single crystals*", presented by my students G. Giesbers and J. Van Schenck, respectively (April 2019)
 11. OMQ Symposium, Eugene, OR, co-authored "*Fungi-Derived Pigments for Sustainable Organic (Opto)Electronics*" given by my student G. Giesbers (September 2018)
 12. MRS Spring meeting 2018, Phoenix, AZ – co-authored two presentations, "*Fungi-Derived Pigments for Sustainable Organic (Opto)Electronics*" and "*Molecular Packing-Dependent Exciton and Polariton Dynamics in Anthradithiophene Organic Crystals*", given by my students G. Giesbers and J. Van Schenck, respectively (April 2018)
 13. SPIE Photonics West 2018, San Francisco, CA – co-authored a presentation "*Effect of molecular side groups and local nanoenvironment on photodegradation and its reversibility*", given by my student N. Quist (February 2018)
 14. SPIE Photonics West 2017, San Francisco, CA – co-authored two presentations, "*Fungi-derived pigments as sustainable organic (opto)electronic materials*" and "*Single molecule-level study of donor-acceptor interactions and nanoscale environment in blends*", given by my students R. Harrison and N. Quist, respectively (February 2017)
 15. **(invited) OMQ Symposium, Eugene, OR**, presented "*Photophysics of organic semiconductors: from single molecules to single crystals*" **(September 2016)**
 16. **(invited) NW OSA meeting, Corvallis, OR**, presented "*Photophysics of organic semiconductors: from thin films to the single-molecule level*" **(May 2016)**
 17. F-pi 12 meeting, Seattle, WA, presented "*Photophysics of organic semiconductors: from thin films to the single-molecule level*" (July 2015)
 18. SPIE Photonics West 2015, San Francisco, CA – co-authored two presentations, "*Photophysics of organic semiconductors: from ensemble to the single-molecule level*" and "*Optical tweezers-based probe of charge transfer in organic semiconductors at microscopic scales*", given by my student R. Grollman (February 2015)
 19. **(invited) EMN Photovoltaics Meeting, Orlando, FL**, presented "*Photophysics of organic semiconductors: from thin films to single molecules*" **(January 2015)**
 20. MRS Fall meeting 2014, Boston, MA – co-authored two presentations, "*Time-resolved exciton and charge carrier dynamics in organic semiconductors*" and "*Numerical modeling of time-resolved charge carrier dynamics in organic semiconductors*", given by my postdoc Dr. K. Paudel and student B. Johnson, respectively (December 2014)
 21. **(invited) NLO Symposium, Pullman, WA**, presented "*Photophysics of organic semiconductors*" **(August 2014)**
 22. NW APS Meeting, Seattle, WA – co-authored a presentation "*Time-resolved exciton and charge carrier dynamics in organic semiconductors*" given by my postdoc Dr. K. Paudel (May 2014)
 23. SPIE Photonics West 2014, San Francisco, CA – co-authored a presentation "*Charge measurements in organic semiconductors using optical tweezers*" given by my student R. Grollman (February 2014)

24. SPIE Optics and Photonics 2013, San Diego, CA – co-authored two presentations, “Time-resolved charge carrier dynamics in organic semiconductors” and “Numerical modeling of time-resolved charge carrier dynamics in organic semiconductors”, given by my postdoc Dr. K. Paudel and student B. Johnson, respectively (August 2013)
25. **(invited) Materials Science Institute Annual Meeting, Eugene, OR**, presented “Understanding physics of organic semiconducting materials” **(September 2012)**
26. **(invited) NW APS meeting, Corvallis, OR**, presented “Recent advances in organic semiconducting materials” **(October 2011)**
27. **(invited) NW AVS meeting, Portland, OR**, presented “Recent advances in organic semiconducting materials” **(September 2011)**
28. SPIE Photonics West 2011, San Francisco, CA – co-authored a presentation “Effect of intermolecular interactions on charge and exciplex formation in high-performance organic semiconductors” given by my student W. Shepherd (January 2011)
29. CLEO/QELS 2010, San Jose, CA – co-authored a presentation “pH/ion nanoprobess with optical tweezers” given by my student M. Kendrick
30. APS March meeting, Portland, OR – co-authored five presentations, “Energy and charge transfer in select organic semiconductor composites”, “Influence of metal-organic interfaces on charge carrier dynamics”, “Single molecule studies of anthradithiophene derivatives”, “Nanoprobess with optical tweezers for biological applications”, “pH/ion nanosensors with optical tweezers in a lab-on-a-chip”, given by my students A. Platt (2), W. Shepherd, and M. Kendrick (2) (March 2010)
31. Entomological Society of America annual meeting, Indianapolis, IN; co-authored a presentation “The buzz on supernormal attraction of native bees to blue vane traps” given by my collaborator S. Rao (December 2009)
32. ONAMI MicroNano Breakthrough conference, Portland, OR; coauthored a presentation given by my students W. Shepherd and A. Platt (September 2009)
33. **(invited) SPIE, San Diego, CA**, presented “High-performance organic semiconductors: photophysical and photoconductive properties and their manipulation by doping”; also co-authored another presentation given by my student A. Platt **(August 2009)**
34. CLEO/QELS 2009, Baltimore, MD – coauthored a poster presentation given by my student M. Kendrick (June 2009)
35. Nanotech 2009, Houston, TX – coauthored a talk given by my collaborator S. Atre (May 2009)
36. OTA/OSA Symposium 2009, Vancouver, Canada – coauthored a talk given by my student M. Kendrick (April 2009)
37. Oregon Center for Optics annual retreat, Eugene, OR – coauthored two posters presentation given by my students A. Platt, W. Shepherd, and D. Quandt (September 2008)
38. MicroNano Breakthrough Conference, Portland, OR – coauthored a talk given by my student S. Bhowmik (September 2008)
39. ACS National Meeting, Philadelphia, PA – coauthored two poster presentations given by my students A. Platt and W. Shepherd (August 2008)
40. **(invited) ICONO10, Santa Fe, NM**, presented “Photoexcited charge carrier and exciton dynamics in organic semiconductors” **(May 2008)**
41. **(invited) NW APS meeting, Portland, OR**, presented “Organic optoelectronic materials: understanding charge carrier dynamics” **(May 2008)**
42. CLEO/QELS 2008, San Jose, CA - coauthored a talk and a poster presentation given by my students A. Platt and M. Kendrick (May 2008)
43. PittCon ACS, New Orleans, LA – coauthored a talk given by my collaborator A. Shvarev (March 2008)
44. MicroNano Breakthrough Conference, Portland, OR – coauthored a talk given by my collaborator S. Atre (September 2007)
45. NSTI Nanotech 2007, Santa Clara, CA – coauthored a talk given by my collaborator S. Atre (May 2007)
46. CLEO/QELS 2007, Baltimore, MD – coauthored two poster presentations given by my students A. Platt and M. Kendrick (May 2007)

47. MRS National Meeting, San Francisco, CA – coauthored a poster presentation given by my student J. Day (April 2007)
48. **(invited) Oregon Center for Optics, Eugene, OR**, presented "Ultrafast charge carrier dynamics in organic semiconductors" **(October 2006)**
49. Oregon Center for Optics annual retreat, Eugene, OR – coauthored a poster presentation given by my student J. Day (September 2006)
50. **(invited) OTF/ACS Symposium, San Francisco, CA**, presented "Ultrafast charge carrier dynamics in organic semiconductors" **(September 2006)**
51. **(invited) OTF/OSA Symposium, Tucson, AZ** presented "Ultrafast photoconductivity in organic semiconductors" **(October 2005)**
52. **(invited) Int. Conf. on PR Effects, Sanya, China**, presented "Recent advances in photorefractive organic materials" **(July 2005)**
53. OTST/OSA Symposium, Orlando, FL - coauthored a paper presented by former advisor F. Hegmann (March 2005)
54. **(invited) OTF/ACS Symposium** – presented "Recent advances in photorefractive organic materials", also presented another talk **(August 2004)**
55. **(invited) SPIE, Denver, CO** – "Fast photoresponse in organic semiconductors: understanding the mechanisms and structure-property relationships" **(August 2004)**
56. Int. Conf. on pi-conjug. Mat., Ithaca, NY – presented a talk (June 2004)
57. CLEO/IQEC 2004, San Francisco, CA – coauthored a talk given by my collaborator Z. Chen (May 2004)
58. APS March meeting, Montreal, Canada – presented one and coauthored another talk given by J. Gao (March 2004)
59. ISOPL-3, Sedona, AZ - presented a talk (September 2003)
60. (invited) SPIE Photonics West, San Jose, CA– "Picosecond transient photoconductivity in organic molecular crystals" - coauthored invited presentation given by my former advisor F. Hegmann (January 2004)
61. SPIE, San Diego, CA – *coauthored a presentation given by K. Willets* (August 2003)
62. Int. Conf. on PR effects, Nice, France – coauthored a presentation given by my collaborator Z. Chen (June 2003)
63. (invited) CLEO/QELS 2003, Baltimore, MD – coauthored invited presentation given by K. Willets and contributed presentation given by Z. Chen (May 2003)
64. **(invited) MB&E 2, Tokyo, Japan** presented "Recent advances in photorefractive organic materials" **(March 2003)**
65. **(invited) SPIE, Seattle, WA** – "High-performance photorefractive polymer composites and glasses" **(July 2002)**
66. Flory Conf., Stanford, CA – presented a poster
67. (invited) ICONO6, Tucson, AZ – coauthored an invited presentation given by my former advisor K. Singer (December 2001)
68. CLEO/QELS 2001, Baltimore, MD - poster presentation (May 2001)
69. ACS National Meeting, Washington D.C. – presented one and coauthored two more talks (August 2000)
70. ACS Reg. Meeting, Covington, KY – coauthored a presentation given by my former advisor K. Singer (May 2000)
71. ICONO 2005, Davos, Switzerland – coauthored one invited and one contributed talk given by my former advisor K. Singer
72. OTF/ACS Symposium, Santa Clara, CA – presented one poster and coauthored one talk
73. Int. Meet. On Optics of LCs, Humacao, Puerto Rico – coauthored two papers presented by my former advisor K. Singer and my collaborator Y. Reznikov (September 1999)
74. CLEO/QELS 1999, Baltimore, MD – coauthored a paper presented by my advisor K. Singer (May 1999)
75. APS March Meeting – coauthored a paper presented by my collaborator J. Lando (March 1999)

Funding

Current/past awarded grants

07/01/23 – 06/30/24 OSU/SciRis Type 2 “Polariton-controlled spin waves in quantum magnets for next-generation spintronics” (PI: OO, co-PIs: A. Rodriguez (OSU Math), C. Fang (OSU Chem), T. Zuehlsdorff (OSU Chem), P. Dhagat (OSU EECS)	\$75,000
08/01/23 - 07/30/24 OSU/RERF “Micromanipulation system for building atomically clean stacks of two-dimensional crystals” (PI: E. Minot, OO is one of 4 co-Is)	\$51,800
02/15/21 – 02/14/22 OSU/SciRis II “Understanding properties of quantum materials for spintronics and magnon valleytronics” (PI: OO, co-PI: P. Dhagat (OSU EECS))	\$10,000
09/01/20 - 08/31/24 NSF-CHE “Strong coupling in microcavities for enhancing photostability of organic semiconductors” (OO (single PI))	\$382, 896
09/01/20 – 08/31/2025 NSF-NNCI “Northwest Nanotechnology Infrastructure” (PI: K. Bohringer, OO is one of 10 topical area leaders – OSU Photonics lead)	\$5,000,000
08/01/19 – 07/31/22 NSF-DMR “MRI: Development of joint-use ultrafast pump-probe instrument for thin-films experimental research” (PI: P. Dhagat (OSU EECS), OO is one of 4 co-Is)	\$1,384,653
06/01/19 – 05/31-20 OSU/RERF “Advanced TCSPC system” (PI: L Cheng (OSU EECS), OO is the co-PI)	\$51, 875
08/01/18-07/31/23, NSF-DMR , “Designing light-matter hybrid states for high-performance organic (opto)electronics”, (OO(PI), L. Cheng (OSU EECS) co-PI)	\$449,985
08/01/17-07/31/20, NSF-CBET , “SusChEM: Naturally produced fungal compounds for sustainable (opto)electronics”, (OO(PI), S. Robinson (OSU Forestry) co-PI)	\$410,000
09/01/2015-08/31/2018, NSF-DMR , “MRI: Acquisition of an Atomic Force Microscope with Optical, Thermal, and Electrical Analysis Capabilities” (PI: B. Aleman (U of Oregon); OO is one of 4 co-PIs)	\$305,620
09/2015-12/2015 OSU/FRT “Comprehensive review of organic optoelectronics”	\$6,000
01/2015-12/2015 OSU/GRF “Organic electronic devices comprised of low-toxicity, low-cost, naturally-produced fungal compounds” (PI: Vince Remcho, OO is a co-PI)	\$10,000
09/2012-08/2015 NSF-DMR “Designing intermolecular interactions for high-performance small-molecule bulk heterojunctions” (OO (single PI))	\$389,515
01/2014 – 01/2015 OSU/RERF “Hyperspectral imaging facility” (PI: Matt Graham, OO is a co-PI)	\$52,460
05/2012-05/2013 OSU/COS Scholar Award	\$8,000
04/2012-06/2012 OSU/FRT “Handbook of organic optical and optoelectronic materials and devices”	\$6,000
10/2010-12/2011 ONR “ <i>ONAMI nanometrology and nanoelectronics initiative: Intermolecular energy transfer: from exciton diffusion at nanoscales to low-threshold solid-state organic lasers</i> ” (OO (PI))	\$93,018

04/2008-03/2013 **NSF-DMR/CHE (CAREER)** "Charge carrier dynamics in organic semiconductors on the macroscopic and microscopic scales" (OO (single PI)) **\$535,064**

07/2009-07/2011 **Agricultural Research Foundation** "Enhanced crop production in Oregon: augmentation and management of bee pollinators" (S. Rao, OSU (PI), OO (co-PI)) **\$100,000**

05/2010-04/2013 **AFOSR** "Photorefractive polymers for 3D updateable displays" (N. Peyghambarian, U of Arizona (PI), OO is subcontracted (single PI at OSU)) **\$30,000**

03/2009-03/2010 **OSU/TRF** "Undergraduate optics lab upgrade" (OO (PI)) **\$58,769**

10/2009-10/2010 **ONR** "ONAMI nanometrology and nanoelectronics initiative: Chemical imaging of the bio-nano interface and thin film nanostructures by micro-Raman/Photoluminescence spectroscopy " (G. Rorrer, OSU (PI), OO (a co-PI)) **\$290,000**

10/2009-10/2010 **ONR** "ONAMI nanometrology and nanoelectronics initiative: Quantum Dots as Ion-Selective Optical Nanosensors " (A. Shvarev, OSU (PI), OO (a co-PI)) **\$81,319**

10/2008-10/2009 **ONR** "ONAMI nanometrology and nanoelectronics initiative: Biochemical Sensors and Integrated Measurement Platform Controlled by Optical Tweezers and Microfluidics " (D. McIntyre, OSU (PI), OO (a co-PI)) **\$240,682**

09/2007-08/2009 **NSF-DMR (MRI)** "Acquisition of a near-field scanning optical microscope " (M. Deutsch, U of Oregon (PI), OO (a co-PI)) **\$324,675**

12/2006-12/2009 **AFOSR** "Photorefractive polymers for 3D updateable displays" (N. Peyghambarian, U of Arizona (PI), OO is subcontracted (single PI at OSU)) **\$30,000**

04/2008-04/2009 **OSU/GRF** "The unanticipated effects of sunlight-induced fluorescence on native bee pollinator behavior" (OO (PI)) **\$10,000**

10/2007-12/2009 **ONR** "ONAMI nanometrology and nanoelectronics initiative: Beyond sensing under equilibrium: photoresponsive nanoprobes for rapid localized acid-base titration" (A. Shvarev, OSU (PI), OO (a co-PI)) **\$107,311**

10/2007-12/2009 **ONR** "ONAMI nanometrology and nanoelectronics initiative: Identification, imaging and manipulation of charged states in organic semiconductors: from macroscopic to microscopic optoelectronic devices " (OO (PI)) **\$102,632**

04/2007-12/2009 **ONR** "ONAMI nanometrology and nanoelectronics initiative: Optical field enhancement in tweezer trapping and single-molecule spectroscopy " (D. McIntyre, OSU (PI), OO (co-PI)) **\$91,037**

12/2006-12/2009 **ONR** "ONAMI nanometrology and nanoelectronics initiative: Charge carrier dynamics in organic semiconductors at nanoscales: towards optoelectronic nanoswitches" (OO (PI)) **\$102,472**

07/2007-07/2008 **OSU/RERF** "Acquisition of a high-sensitivity EMCCD camera for single-molecule spectroscopy" (OO (single PI)), **\$24,450**

09/2006-09/2009 **ACS/PRF** " Charge transfer in organic semiconductors: from microscopic to macroscopic electronic properties on all time scales" (OO (single PI)) **\$35,000**

08/2006-08/2007 Tektronix, Inc. “Probing ultrafast carrier dynamics with digital sampling oscilloscope” (OO (single PI)),	\$21,000
08/2006-07/2007 Spiricon, Inc. “Laser pulse shape analyzer” (OO (single PI)),	\$3,500
04/2006-06/2006 OSU/FRT “Photophysics of organic semiconductors”,	\$6,000

D. Service

1. Department Service:

1. Advisory Board	.....2012-2014, 2016-2021
2. Undergraduate curriculum committee	..... 2014—2016
3. Graduate curriculum committee	.....2005-2014, 2017-present
4. Colloquium committee	..... Fall 2008 – Spring 2009 (chair), 2013-2015 (chair), 2022- 2023 (chair)
5. Graduate admission committee	2005, 2007 (chair), 2008 (chair), 2016 (chair), 2019 (chair), 2020 (chair), 2021 (chair)
6. Comprehensive exam committee	.....Fall 2010- Spring 2012
7. Graduate Open House (organizer)	..... Winter 2005-2012, 2016, 2019-2021
8. Engineering Awareness week/Undergraduate Open House (participant)	..... Fall 2006- Spring 2012
9. Graduate taskforce and Optics committee	..... Fall 2006--2014
10. P&T committees	..... Fall 2005 (instructor), 2012-present
11. Society of Physics Students advisor	..... 2005--- 2006
12. Instructor, faculty search committee	..... 2006, 2012, 2021
13. Solid State/Optics seminar	..... Fall 2007, 2009, 2012, Spring 2011, 2014
14. Math test for incoming class	..... Fall 2005-2006,2009
15. Department newsletter	.....2013-2014, 2016-2020
16. Department safety	.....2016-2018
17. Core Advising Committee	.....2020-present, 2022-2023 (chair)
18. Astrophysics faculty search committee	.....2022

2. University Service (outside of Physics Department):

1. Heat Plant steering committee	.....2023-present
2. X-ray manager search committee	.....2022
3. CIC steering committee	.....2022-2023
4. COS P&T committee	.....2022-present
5. COS Awards committee	.....2021, 2022, 2023
6. Graduate O’Neill Fellowship committee	.....2019
7. SURE Science committee	.....2017
8. Faculty Senate	.....2014-2016
9. Research Equipment Reserve Fund (RERF) reviewer	.....2015
10. Faculty searches (Analytical and Physical Chemistry, OSU)	2007, 2008, 2018, 2019
11. “Breakthroughs in Science” event (2009) – one out of 4 faculty selected from the College of Science to present a project to OSU donors	
12. Graduate Council Representative/Program Committee member for:	

Ahasan Ullah	EECS	Ph. D.	current student
Anizoba Ebuka	Chemistry	Ph. D.	current student
Clara Wheeler	Chemistry	Ph. D.	current student
Stanislau Stanisheuski	Chemistry	Ph. D.	2023
Fernando Angulo	Mathematics	Ph. D.	current student
Xavier Quintana	Mat. Sci.	Ph.D.	current student
Brooklyne Thompson	Chem. Eng.	Ph. D.	current student
Kaylee Cayton	Chemistry	Ph. D.	current student
Javier Corona	EECS	Ph. D.	current student
Molly Vitale-Sullivan	Chem. Eng.	Ph. D.	current student
Krishna Padavala	Chem. Eng.	Ph. D.	current student
Jacob Hirschi	Chemistry	Ph. D.	current student
Bo Wu	EECS	Ph. D.	2022
Mahsa Khoshbakht	Chemistry	Ph. D.	2021
Trever Schwichtenberg	Chemistry	Ph. D.	2022
Layhna Plagmann	Chemistry	Ph. D.	M.S. 2021, Ph.D. student
Quinn Carvalho	Chem. Eng.	Ph. D.	2023
Alastair Thurlbeck	EECS	Ph. D.	2022
Ajmal Vadakkan	EECS	Ph. D.	current student
Jesse Howe	Biochemistry	Ph. D.	current student
Dongjun Lee	EECS	Ph. D.	M. S. 2022, Ph. D. student
GilSoo Kim	Chemistry	Ph. D.	2022
Megan McCormick	EECS	M. S.	2022
Shauna Otto	Biochemistry	Ph. D.	2022
Jacob Buchanan	Chemistry	Ph. D.	2019
Taisiia Feoktistova	Chemistry	Ph. D.	2022
Eliseo Quiroz	Chemistry	Ph. D.	2023
Chris Malmberg	Chemistry	Ph. D.	2018
Ni Trieu	EECS	Ph. D.	2019
Britany Swann	Mech. Eng.	M. Sc.	2017
Steph Walker	Mech. Eng./Robotics	Ph. D.	2018
George Neuhaus	Chemistry	Ph. D.	2019
Jesse Keeler	Chem. Eng.	M. S.	2016
Falah Alanazi	EECS	M. S.	2016
Fan Zhou	EECS	Ph. D.	2017
Greg Angelos	EECS	Ph. D.	2017
Ara Alexandrian	Health Phys.	M. Sc.	2015
Younghoon Whang	EECS	Ph.D.	2016
Daniel McCaulen-Walden	Chemistry	Ph. D.	2018
Maha Alghamdi	Chemistry	Ph. D.	2019
Zeyu You	EECS	M.Sc.	2014
John McGlone	EECS	Ph.D.	2017
Dylan Fast	Chemistry	Ph. D.	2018
Cem Celik	Chemistry	M.S.	2018
Kileigh Petouris	Health Phys.	M. Sc.	2014
Fang-Yu Lee	Chem. Eng.	M. Sc.	2013
Chao Wang	Chemistry	Ph. D.	2013
Amanda Hoyt	Chemistry	M.Sc.	2014
Yungli Wang	Chemistry	Ph. D.	2017
Breland Oskar	Chemistry	Ph. D.	2017
Vishal Patil	Mech. Eng.	Ph. D.	2012
Steven Gaskill	EECS	M.S.	2010
Nessrine Chakchouk	EECS	Ph. D.	2012

Roderick Whang	EECS	Ph. D.	2015
Weiyang Li	EECS	Ph. D.	2015
Taehwan Oh	EECS	Ph. D.	2013
Colin Harthcock	Chemistry	Ph. D.	2015
Jeremy Campbell	Chem. Eng.	Ph. D.	2013
Sasidhar Nirudodhi	Chemistry	Ph.D.	2013
Subrata Shaw	Chemistry	Ph.D.	2014
Ramin Zangbaghi	EECS	Ph.D.	2014
Jaana Rajachidambaram	Chem. Eng.	M. Sc.	2011
Santosh Murali	EECS	M. Sc.	2011
David Dickson	Bioeng.	M.Sc.	2010
Samia El-Amrani	EECS	M. Sc.	2010
John Melbardis	Chemistry	M. Sc.	2009
Eric Edgar	Chem. Eng.	M. Sc.	2008
Kavitha Rapolu	EECS	M. Sc.	2008
Chris Lindsley	EECS	M.Sc.	2007
Wei Zhang	Chemistry	Ph.D.	2006
Arathi Sundaresan	EECS	M. Sc.	2006
Onur Acicmez	EECS	Ph.D.	2006
Arien Sligar	EECS	M.Sc.	2006

Service to the Profession:

1. Editorial Board for *Journal of Physical Chemistry A/B/C* (starting in 2024)
2. Editorial Board for *Materials Today Quantum* (2023-present)
3. Academic Editor for *PLoS ONE* (2014-2023)
4. Reviewer (**~15-20 papers per year**) for 45 journals including Nature Materials, Nature Communications, Scientific Reports, American Chemical Society journals (J. Phys. Chem. B and C, J. Am. Chem. Soc., Chem. Mat.), Optical Society of America journals (JOSA B, Opt. Exp., Opt. Lett., Opt. Comm.), American Institute of Physics journals (J. Appl. Phys., Appl. Phys. Lett., J. Chem. Phys., J. Res. Sol. En.), Elsevier journals (Chem. Phys., Opt. Mat., Opt. Mat. Ex.), and Wiley journals and books (Adv. Mat., Adv. Funct. Mat., ChemPhysChem, Enc. Of Polymer Science and Technology), IEEE Photonics Tech. Lett.
5. Reviewer/panelist for the National Science Foundation (DMR, EECS, CHE), ACS Petroleum Research Fund (PRF), Department of Energy (DOE), Molecular Foundry, the American Association for Advancement in Science (AAAS), and Swiss, German, Austrian, and Polish funding agencies
6. NSF Committee of Visitors (2023)
7. Engineering Physics advisory board, Case Western Reserve University (since 2008)
8. External reviewer of P&T cases (~2 per year)
9. Focus session organizer (APS March Meeting 2022)