

Sofia (Trakhtenberg) Aronovitz, PhD

Education	University of Massachusetts Lowell (UML)	Lowell, MA
	University of Massachusetts Boston (UMB)	Boston, MA
	Postdoctoral associate. Center for Green Chemistry. (UML: 2004 – 2005; UMB: 2002 – 2004)	
	Massachusetts Institute of Technology (MIT)	Cambridge, MA
	Postdoctoral associate. Department of Earth, Atmospheric, and Planetary Sciences. (2000– 2002)	
	Weizmann Institute of Science (WIS)	Rehovot, Israel
Teaching Experience	Postdoctoral fellow. Department of Chemical Physics. (1999 – 2000)	
	Ph.D. Department of Chemical Physics, 1999. Thesis: The effect of surface morphology on structure of adsorbed species.	
	M.Sc. Department of Chemistry, 1993. Thesis: The real time measurements of reaction between O(³ P) and organized organic thin films.	
	Moscow State University	Moscow, Russia
	Undergraduate studies. Department of Chemistry. (1988 – 1991)	
Teaching Experience	Middlesex Community College	Bedford, MA
	College Chemistry I: Lecturer and Lab Instructor (Fall 2018)	
	UML Department of Community Health and Sustainability	Lowell, MA
	Interfacial Phenomena (Graduate): Lecturer (Fall 2005)	
	UMB Department of Chemistry	Boston, MA
	Physiological Chemistry: Lab Instructor (Spring 2004)	
Mentoring Experience	Introduction to Chemistry II (Organic Chemistry and Biochemistry): Lab Instructor (Spring 2004)	
	Introduction to Chemistry I (General Chemistry): Lab Instructor (Summer 2003)	
	Introduction to Chemistry II (Organic Chemistry and Biochemistry): Lab Instructor (Spring 2003)	
	UML Department of Community Health and Sustainability	Lowell, MA
	ACS Project SEED: mentoring of high school students doing laboratory research in Chemistry, two students each summer (Summer 2005, Summer 2006)	
Research Experience	Senior Research Fellow. Warner Babcock Institute for Green Chemistry (2016 – 2018)	
	Senior Scientist. Warner Babcock Institute for Green Chemistry (2007 – 2016)	
	Research Professor. Department of Plastics Engineering, University of Massachusetts Lowell (2006 – 2007)	
Grants and Awards	Co-PI on NSF Award of \$12,188 for "Visit to Argentina: Strategic Planning for Collaborative Research on Bioinspired Polymers" (2006)	
	Co-recipient of the Society of Cosmetic Chemists Award of \$2,500 as coauthor of "Water Soluble Photocrosslinking Materials in Cosmetics", chosen as Best Paper presented at the Society's Annual Seminar (2006)	
	Co-PI on EPA P3 grant of \$10,000 for "Photocrosslinked Immobilization of Polyelectrolytes for Template Assisted Enzymatic Polymerization of Conjugated Polymers" (2004-2005)	
Selected Publications		
	S. Trakhtenberg, J. C. Warner, "Green Chemistry Considerations in Entropic Control of Materials and Processes" <i>Chem. Rev.</i> 107, 2174 (2007).	
	S. Trakhtenberg, Y. Hangun-Balkir, J. C. Warner, F. Bruno, J. Kumar, R. Nagarajan, L. A. Samuelson, "Photocrosslinked Immobilization of Polyelectrolytes for Enzymatic Construction of Conductive Nanocomposites", <i>J. Am. Chem. Soc.</i> 127, 9100 (2005).	
	M. J. Molina, A. V. Ivanov, S. Trakhtenberg, L. T. Molina, "Atmospheric Evolution of Organic Aerosol", <i>Geophys. Res. Lett.</i> 31, L22104 (2004)	
	Y. Rudich, I. Benjamin, R. Naaman, E. Thomas, S. Trakhtenberg, R. Ussyshkin, "Wetting of Hydrophobic Organic Surfaces and its Implication to Organic Aerosols in the Atmosphere", <i>J. Phys. Chem. A</i> 104, 5238 (2000).	
	Y. Paz, S. Trakhtenberg, R. Naaman, "New Evidences for Surface Non Specific Catalysis- The Reaction Between Organized Organic Thin Films and O(³ P)", <i>J. Am. Chem. Soc.</i> 116, 10344 (1994).	