

Heather Cecile Allen

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Academic Background

1997 Ph.D. Physical Chemistry; University of California, Irvine
Ph.D. 1997; M.S. 1995
Advisor John C. Hemminger & coAdvisor Barbara J. Finlayson-Pitts

1993 B.S. Chemistry; University of California, Irvine
UG Research Advisors: F. Sherwood Rowland & Don Blake

Professional Appointments

2019 – present Dow Professor of Chemistry, The Ohio State University, Columbus, OH
2015 - present Ohio State Distinguished Scholar, The Ohio State University, Columbus, OH
2013 – present Advisor - RESOLV, Cluster of Excellence, Ruhr University, Bochum, Germany
2008 - present Professor of Chemistry, The Ohio State University, Columbus, OH
2012 - 2013 Faculty Fellow, OSU VP Strategic Planning office, Discovery Themes
2011 Visiting Scholar, Wexner Medical School, James Cancer Center, OH
2008 - 2009 Chair - Ohio State University Senate Steering Committee
2007 - 2010 Ohio State University Senator, College of Math and Physical Sciences
2005 - 2008 Associate Professor of Chemistry, The Ohio State University, Columbus, OH
2005 Chair – National Science Foundation: Workshop on Chemistry & Sustainability
2000 - 2005 Assistant Professor of Chemistry, The Ohio State University, Columbus, OH
1997 - 1999 NOAA/UCAR Postdoctoral Program in Climate and Global Change, Fellow
University of Oregon, Advisor: Geraldine L. Richmond

Honors, Awards and Fellowships

2022 American Chemical Society National Award
- The Irving Langmuir Award in Chemical Physics

2018 Tohoku Forum for Creativity Scholar, Sendai, Japan

2017 Alumna of the Year Award, Saddleback College, California

2015 Ohio State Distinguished University Scholar Award

2015 - present Alexander von Humboldt Foundation Fellow, Germany

2013 American Chemical Society National Award
- For Encouraging Women into Careers in the Chemical Sciences

2012 American Association for the Advancement of Science (AAAS) Fellow

2010-2011 Visiting Scholar, Wexner Medical School @ Ohio State James Cancer Center

2007 Distinguished Diversity Enhancement Award – Ohio State University

2006 Camille Dreyfus Teacher – Scholar Award

2006 Columbus Public Schools Service Award - *An Empowered Woman Award*

2005 Alfred P. Sloan Research Award, Fellow

2003 Beckman Young Investigator Award

2002 NSF CAREER Award (2002 – 2007)

2002 Research Innovation Award, Research Corporation

2001 OSU Office of Minority Affairs Distinguished Professional Mentor Award 2000-2001

1997 - 1999 NOAA Postdoctoral Fellowship in Climate and Global Change

1996 - 1997 Hertz Foundation Graduate Student Fellowship

Google Scholar Citations

<https://scholar.google.com/citations?user=xtke6AcAAAAJ>

H-index of 50

9187 total citations as of 1.26.2023

	All	Since 2018
Citations	9187	3603
h-index	50	34
i10-index	114	85

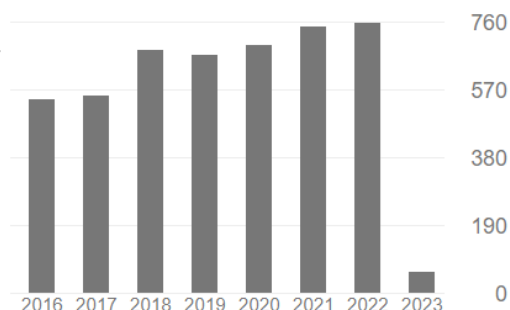
Editorial Boards

2010 - 2013 Journal of Physical Chemistry Editorial Board Member

2018 – 2021 Chemical Physics Letters Editorial Board Member

Professional Affiliations

- American Chemical Society
- American Physical Society
- American Geophysical Society
- AAAS
- OSU Environmental Science Graduate Program



Summary of Presentations and Publications

- 200+ Invited University Seminars and Invited talks at professional meetings
 - ✓ 12+ Gordon Conference (GRC) and GRS invited talks
 - ✓ 30+ Plenary, Keynote, and Named Lectures
 - ✓ An additional 200+ Contributed talks by Allen lab members
- 140+ Peer-reviewed journal publications

Some Recent Publications

Iron(III) Chloro Complexation at the Air–Aqueous FeCl₃ Interface via Second Harmonic Generation Spectroscopy, KC Ng, T Adel, KU Lao, MG Varmucky, Z Liu, M Arrad, HC Allen*, *J. Phys. Chem. C* **2022** 126 (36), 15386-15396.

Discerning Poly- and Monosaccharide Enrichment Mechanisms: Alginate and Glucuronate Adsorption to a Stearic Acid Sea Surface Microlayer, MG Vazquez de Vasquez, MM Rogers, KA Carter-Fenk, HC Allen*, *ACS Earth and Space Chemistry* **2022** 6 (6), 1581-1595.

Hydration and Hydrogen Bond Order of Octadecanoic Acid and Octadecanol Films on Water at 21 and 1 C; MG Vazquez de Vasquez, KA Carter-Fenk, LM McCaslin, EE Beasley, J Clark, HC Allen*, *J. Phys. Chem* **2021** A 125 (46), 10065-10078.

Role of hydration in magnesium versus calcium ion pairing with carboxylate: solution and the aqueous interface MG Vazquez de Vasquez, BA Wellen Rudd, MD Baer, EE Beasley, HC Allen*, *J. Phys. Chem. B* **2021** 125 (40), 11308-11319.

Insight into the Ionizing Surface Potential Method and Aqueous Sodium Halide Surfaces; T Adel, KC Ng, MG Vazquez de Vasquez, J Velez-Alvarez, and HC Allen*; Invited Feature Article, *Langmuir*, **2021**, 37, 26, 7863–7874.

Molecular recognition and hydration energy mismatch combine to inform ion binding selectivity at aqueous interfaces; J Neal, A Saha, M Zerkle, W Zhao, M Rogers, A Flood*, HC Allen*, *J. Phys. Chem. A* **2020** Dec 10;124(49):10171-10180.

Thermodynamic Signatures of the Origin of Anti-Hofmeister Selectivity for Phosphate at Aqueous Interfaces, AJ Grooms, JF Neal, KC Ng, W Zhao, AH Flood*, HC Allen*, *J. Phys. Chem. A* **2020**, 124, No27, 5621-5630.