



Personal report

Michael T. Bowers Curriculum Vitae

Michael T. Bowers

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Citizenship: United States
Birthdate: June 6, 1939

Degrees, Honors and Editorships

B.S. Chemistry - 1962, Gonzaga University
Ph.D. Physical Chemistry - 1966, University of Illinois (with W.H. Flygare)
Ford Foundation Fellowship, Gonzaga University (1960–1962)
Outstanding Senior Student, Gonzaga University (1962)
Ethyl Corporation Fellow, University of Illinois (1962–1964)
Predoctoral Fellow, National Science Foundation, University of Illinois (1964–1966)
Fellow, American Physical Society (Elected 1987)
Nobel Laureate Signature Award (1989) (with N. Kirchner), American Chemical Society
Faculty Research Lecturer, University of California at Santa Barbara (1994)
Guggenheim Fellow (1995)
Fellow, American Association for the Advancement of Science (Elected 1994)
Field and Franklin Award for Outstanding Achievement in Mass Spectrometry, ACS (1996)
Thomson Gold Medal, International Mass Spectrometry Society (1997)
Distinguished Contribution Award, American Society of Mass Spectrometry (2004)
Humboldt Senior Research Award, Humboldt Foundation (2008)
Honoree of Special Issue of *International Journal of Mass Spectrometry*, Vols. 185, 186 and 187 (1999)
Honoree of Special Issue of *Journal of the American Society of Mass Spectrometry*, Vol. 16/7 (2005)
Editor, *International Journal of Mass Spectrometry* (1986 - present)
Associate Editor, *Journal of the American Chemical Society* (1989 - present)
Gordon Conference Founder: Structure and Energetics of Gas Phase Ions (1991); Biological Molecules in the Gas Phase (2001)

Academic Appointments

1966–1968 Jet Propulsion Laboratory, Physics Section, Space Sciences Division
1968–1973 Assistant Professor, University of California at Santa Barbara
1973–1976 Associate Professor, University of California at Santa Barbara
1976–1991 Professor, University of California at Santa Barbara
1991–present Professor Above-scale, University of California at Santa Barbara

Current Extramural Grants

National Science Foundation, 7/1/05 to 4/30/09 - \$632,877; 4/01/08 to 3/31/11 - \$536,000
Air Force Office of Scientific Research, 1/1/06 to 12/31/10 - \$936,000
Warwick Univ/DEFRA (UK) 1/1/05 to 6/30/09 \$480,500
Department of Energy 9/1/06 to 8/31/09 \$596,299 (co PI)
National Institutes of Health 9/1/06 to 8/31/11 \$1,382,813

Current Research Interests

Generation, Structure and Reactivity of Semiconductor and Metallic Clusters in the Gas Phase and on Surfaces
Structures and Energetics of Synthetic Polymers and Biopolymers in the Gas Phase
Protein Misfolding and Aggregation Diseases; G-quadruplex Formation and Stabilization

Selected Research Publications (375 total – full publication list in [Supporting Information](#))

- S.L. Bernstein, T. Wytttenbach, A. Baumketner, J-E. Shea, G. Bitan, D. Teplow, M.T. Bowers, Amyloid β -Protein: Monomer Structure and Early Aggregation States of A β_{42} and its Pro¹⁹ Alloform, *J. Am. Chem. Soc.* 127 (2005) 2075–2084.
- Megan Grabenauer, Summer L. Bernstein, Jennifer C. Lee, Thomas Wytttenbach, Nicholas F. Dupuis, Harry B. Gray, Jay R. Winkler, Michael T. Bowers, Spermine Binding to Parkinson's Protein α -Synuclein and Its Disease-Related A30P and A53T Mutants, *J. Phys. Chem. B* 112 (2008) 11147–11154
- Valerie Gabelica, Erin Shammel Baker, Marie-Paule Teulade-Fichou, Edwin De Pauw, Michael T. Bowers, Stabilization and Structure of Telomeric and c-myc Region Intramolecular G-Quadruplexes: The Role of Central Cations and Small Planar Ligands, *J. Am. Chem. Soc.* 129 (2007) 895–904
- Thomas Wytttenbach, Dengfeng Liu, Michael T. Bowers, Interactions of the Hormone Oxytocin with Divalent Metal Ions, *J. Am. Chem. Soc.* 130 (2008) 5993–6000

Appendix A. Supplementary data

Supplementary data associated with this article can be found, in the online version, at [doi:10.1016/j.ijms.2009.04.005](https://doi.org/10.1016/j.ijms.2009.04.005).