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Education and Training:

Institution	Major	Degree	Year
Cornell University	Chemistry	B.A. <i>summa cum laude</i>	1991
Cornell University	Mathematics	B.A. <i>cum laude</i>	1991
Harvard University	Chemistry	Ph.D.	1995
Harvard University	Chemistry	Postdoc	1995-1996
University of California, Berkeley	Chemistry	Postdoc	1996-1997

Research and Professional Experience:

2009-present **Senior Faculty Scientist**, Materials Sciences Division, Lawrence Berkeley National Laboratory

2008-present **Professor** of Chemistry, University of California, Berkeley

2003-2009 **Faculty Scientist**, Materials Sciences Division, Lawrence Berkeley National Laboratory

2003-2007 **Associate Professor and Vice Chair** of Chemistry, University of California, Berkeley

1997-2003 **Assistant Professor** of Chemistry, University of California, Berkeley

Publications:

1. Kobayashi, Y.; Jacobs, B.; Allendorf, M. D.; **Long, J. R.** "Conductivity, Doping, and Redox Chemistry of a Microporous Dithiolene-Based Metal-Organic Framework" *Chem. Mater.* 2010, 22, 4120-4122.
2. Wiers, B. M.; Foo, M. L.; Balsara, N. P.; **Long, J. R.** "A Solid Lithium Electrolyte via Addition of Lithium Isopropoxide to a Metal-Organic Framework with Open Metal Sites" *J. Am. Chem. Soc.* 2011, 133, 14522-14525.
3. Sun, Y.; Liu, C.; Grauer, D. C.; Yano, J.; **Long, J. R.**; Yang, P.; Chang, C. J. "Electrodeposited Cobalt-Sulfide Catalyst for Electrochemical and Photoelectrochemical Hydrogen Generation from Water" *J. Am. Chem. Soc.* 2013, 135, 17699-17702.
4. Aubrey, M. L.; Ameloot, R.; Wiers, B. M.; **Long, J. R.** "Metal-Organic Frameworks as Solid Magnesium Electrolytes" *Energy Environ. Sci.* 2014, 7, 667-671.
5. Van Humbeck, J. F.; McDonald, T. M.; Jing, X.; Wiers, B. M.; Zhu, G.; **Long, J. R.** "Ammonia Capture in Porous Organic Polymers Densely Functionalized with Brønsted Acid Groups" *J. Am. Chem. Soc.* 2014, 136, 2432-2440.
6. Karunadasa, H. I.; Chang, C. J.; **Long, J. R.** "A Molecular Molybdenum-Oxo Catalyst for Generating Hydrogen from Water" *Nature* 2010, 464, 1329-1333.
7. Karunadasa, H. I.; Montalvo, E.; Sun, Y.; Majda, M.; **Long, J. R.**; Chang, C. J. "A Molecular MoS₂ Edge Site Mimic for Catalytic Hydrogen Generation" *Science* 2012, 335, 698.
8. Bloch, E. D.; Queen, W. L.; Krishna, R.; Zadrozny, J. M.; Brown, C. M.; **Long, J. R.**

“Hydrocarbon Separations in a Metal-Organic Framework with Open Iron(II) Coordination Sites” *Science* 2012, 335, 1606-1610.

9. Herm, Z. R.; Wiers, B. M.; Mason, J. A.; van Baten, J. M.; Hudson, M. R.; Zajdel, P.; Brown, C. M.; Masciocchi, N.; Krishna, R.; **Long, J. R.** “Separation of Hexane Isomers in a Metal-Organic Framework with Triangular Channels” *Science* 2013, 340, 960-964.
10. Zadrozny, J. M.; Xiao, D. J.; Atanasov, M.; Long, G. J.; Grandjean, F.; Neese, F.; **Long, J. R.** “Magnetic Blocking in a Linear Iron(I) Complex” *Nature Chem.* 2013, 5, 577-581.

Synergistic Activities:

1. Created a new materials chemistry concentration for undergraduate chemistry majors, including a new undergraduate course on materials chemistry (Chemistry and Materials Sciences & Engineering C150) at the University of California, Berkeley.
2. Founding Associate Editor of Inorganic Chemistry for the journal *Chemical Science*.
3. Chair, Division of Inorganic Chemistry, American Chemical Society (2012).
4. Director, Department of Energy Frontier Research Center for Gas Separations for Clean Energy Technologies (2014-present; Deputy Director, 2009-2014).
5. Co-Founder, Mosaic Materials, Inc. (2014).