

### Personal Information

Full name	Joanna Aizenberg	
Current position	Professor	
Organization	Harvard University	
Country	USA	

### Short Biography

**Joanna Aizenberg, Amy Smith Berylon Professor of Materials Science and Professor of Chemistry and Chemical Biology at Harvard University**, pursues a broad range of research interests that include biomimetics, self-assembly, smart materials, bio-nano interfaces, crystal engineering, surface chemistry, nanofabrication, biomineralization, biomechanics and biooptics. She received the B.S. degree in Chemistry in 1981, the M.S. degree in Physical Chemistry in 1984 from Moscow State University, and the Ph.D. degree in Structural Biology from the Weizmann Institute of Science in 1996.

Joanna is the Director of the Kavli Institute for Bionano Science and Technology and Platform Leader in the Wyss Institute for Biinspired Engineering at Harvard University. She has served at the Board of Directors of the Materials Research Society and at the Board on Physics and Astronomy of the National Academies. She served on the Advisory Board of *Langmuir* and *Chemistry of Materials*, on Board of Reviewing Editors of *Science Magazine*, and is an Editorial Board Member of *Advanced Materials*.

Aizenberg is elected to the American Academy of Arts and Sciences, American Association for the Advancement of Science; and she is a Fellow of American Physical Society and Materials Research Society. Dr. Aizenberg received numerous awards from the American Chemical Society and Materials Research Society, including Fred Kavli Distinguished Lectureship in Nanoscience, Ronald Breslow Award for the Achievement in Biomimetic Chemistry, Arthur K. Doolittle Award in Polymeric Materials, ACS Industrial Innovation Award, and was recognized with two R&D 100 Awards for best innovations in 2012 and 2013 for the invention of a novel class of omniphobic materials and watermark ink technologies.

### Select Awards and Honors:

- Honorary Doctorate and Honorary Professorship, Eindhoven University of Technology, The Netherlands, 2016
- George Ledlie Prize, President & Fellows of Harvard College, 2015
- Member of the American Academy of Arts and Sciences, 2014
- Fellow of the Materials Research Society, 2014
- Alexander M. Cruickshank Lecturer, Gordon Research Conferences 2014
- R&D 100 Award for Top Technology and Innovation in 2013
- Fellow of the American Physical Society, 2013
- R&D 100 Award for Top Technology and Innovation in 2012
- Fred Kavli Distinguished Lectureship in Nanoscience, Materials Research Society, 2009
- Van't Hoff Award, Dutch Royal Academy, 2009
- Ronald Breslow Award for the Achievement in Biomimetic Chemistry, American Chemical Society, 2008
- Fellow of the American Association for the Advancement of Science, 2007
- Industrial Innovation Award, American Chemical Society, 2007
- Lucent Chairman's Award, Lucent, 2005
- New Investigator Award, International Conference on Chemistry and Biology of Mineralized Tissues, 2001
- Arthur K. Doolittle Award of the American Chemical Society, 1999
- Weizmann Institute Academic Excellence Award, Israel, 1997
- Award of the Max-Planck Society in Biology and Materials Science, Germany, 1995

Curriculum Vitae			
Education	Moscow State University, Moscow, USSR	Chemistry	B.S., 1981
	Moscow State University, Moscow, USSR	Physical Chemistry	M.S. with honors, 1984
	Weizmann Institute of Science, Israel	Structural Biology	PhD with honors, 1996
	Harvard University, Cambridge, MA	Materials Chemistry	Postdoctoral research
Professional Experience	2011-present	Director of the Kavli Institute for Bionano Science and Technology at Harvard University	
	2009-present	Amy Smith Berylson Professor of Materials Science, School of Engineering and Applied Sciences, Harvard University	
	2007-present	Professor of Chemistry and Chemical Biology, Faculty of Arts and Sciences, Harvard University	
	2007-2012	Susan S. and Kenneth L. Wallach Professor, Radcliffe Institute for Advanced Study, Harvard University	
	2007-2009 1998-2007	Gordon McKay Professor of Materials Science, Harvard University Member of Technical Staff, Bell Laboratories/Lucent Technologies	
Other Professional Service and Synergistic Activities	<ul style="list-style-type: none"> <li>• Advisory Board for CUNY Advanced Science Research Center, Nanoscience Initiative, 2015</li> <li>• Founding Core Faculty and Platform Leader of the Wyss Institute for Biologically Inspired Engineering at Harvard University, 2008-present</li> <li>• Materials Research Society Program Development Subcommittee, 2004-present</li> <li>• Director of Science Programs, Radcliffe Institute for Advanced Study, 2010-2013</li> <li>• Member of the Scientific Review Panel on Nanoscience and Nanotechnology in Biology and Medicine, NIH 2004-2012</li> <li>• Board of Directors of the Materials Research Society, 2005-2009</li> <li>• Board on Physics and Astronomy of the National Academies, 2006-2008</li> <li>• Board of Directors for the Harvard Center for Nanoscale Systems (CNS), 2007-2009</li> <li>• The National Academies Committee on Chemistry Benchmarking, 2006-2007</li> <li>• The National Academies Committee on Biomolecular Materials and Processes, 2006-2007</li> <li>• Advisory Council of Research at Bell Laboratories, 2004-2006</li> <li>• Advisory Committee for “Chemical Bonding Centers”, NSF, 2003</li> <li>• Memberships: MRS, ACS, APS, AAAS, NYAS</li> <li>• <u>Conference organization:</u> Aizenberg is actively involved in the organization and promotion of meetings and symposia in the area of biomimetic materials and self-assembly. Select conferences: <ul style="list-style-type: none"> <li>○ Organized Symposia for MRS S2001, S2002, S2004; PACIFICHEM 2005, 2010, 2015</li> <li>○ Chair of the Materials Research Society Spring Meeting, 2005</li> <li>○ Chair of the Gordon Research Conference on Biomineralization, 2006</li> <li>○ Chair of the Gordon Research Conference on Organic Structures and Properties, 2008</li> <li>○ Chair of the Exploratory Seminar: “Bio-inspired Architecture”, Radcliffe Institute, 2011</li> <li>○ Chair of the Science Symposium: “The Future of Water”, Radcliffe Institute, 2012</li> <li>○ Chair of the Science Symposium: “Smart Clothes”, Radcliffe Institute, 2013</li> <li>○ Chair of the 5<sup>th</sup> WYSS Institute Symposium: “Bioinspired Adaptive Materials: From Molecules to Buildings”, 2014</li> </ul> </li> <li>• <u>Editorial activities:</u> <ul style="list-style-type: none"> <li>○ <i>Advanced Materials</i>, 2013-present</li> <li>○ <i>Chemistry of Materials</i>, 2006-2012</li> <li>○ <i>Science’s</i> Board of Reviewing Editors, 2006-2010</li> <li>○ Advisory Board of <i>Langmuir</i>, 2005-2007</li> <li>○ Guest Editor for special issues of <i>Advanced Materials</i>, <i>Advanced Functional Materials</i>, <i>Soft Matter</i>, <i>MRS Bulletin</i>, <i>Journal of Structural Biology</i>, <i>Journal of Materials Chemistry</i></li> </ul> </li> </ul>		

	<p><b>Select Awards and Honors:</b></p> <ul style="list-style-type: none"> <li>- George Ledlie Prize, President &amp; Fellows of Harvard College, 2015</li> <li>- Member of the American Academy of Arts and Sciences, 2014</li> <li>- Fellow of the Materials Research Society, 2014</li> <li>- Alexander M. Cruickshank Lecturer, Gordon Research Conferences 2014</li> <li>- R&amp;D 100 Award for Top Technology and Innovation in 2013</li> <li>- Fellow of the American Physical Society, 2013</li> <li>- R&amp;D 100 Award for Top Technology and Innovation in 2012</li> <li>- Fred Kavli Distinguished Lectureship in Nanoscience, Materials Research Society, 2009</li> <li>- Van't Hoff Award, Dutch Royal Academy, 2009</li> <li>- Ronald Breslow Award for the Achievement in Biomimetic Chemistry, American Chemical Society, 2008</li> <li>- Fellow of the American Association for the Advancement of Science, 2007</li> <li>- Industrial Innovation Award, American Chemical Society, 2007</li> <li>- Lucent Chairman's Award, Lucent, 2005</li> <li>- New Investigator Award, International Conference on Chemistry and Biology of Mineralized Tissues, 2001</li> <li>- Arthur K. Doolittle Award of the American Chemical Society, 1999</li> <li>- Weizmann Institute Academic Excellence Award, Israel, 1997</li> <li>- Award of the Max-Planck Society in Biology and Materials Science, Germany, 1995</li> </ul> <p><i>Named Lectureships:</i></p> <p>Van Vlack Lectureship (University of Michigan, 2015); Huck Distinguished Lectureship (Penn State University, 2014); Edward Noble Kramer Distinguished Interdisciplinary Lecture (University of Wisconsin—Madison, 2014); Robert W. Murray Lectureship (University of Missouri-St. Louis 2014); Whidden Lectureship (McMaster University, Canada 2014); Gwathmey Lectureship (University of Virginia 2013); Holtz Award Lectureship (Johns Hopkins University 2013); David L. Weaver Endowed Lectureship in Biophysics (UC Davis 2013); Hood Fellowship (University of Auckland, NZ 2013); Karcher &amp; Barton Distinguished Lectureship (University of Oklahoma 2012); Franklin Award Lectureship (Rice University 2012); Dorothy Crowfoot Hodgkin Award Lectureship (University of Zurich 2011); The 2011 Sproull Lecturer (Cornell University); Dow Foundation Distinguished Lecturer (UCSB 2011); WISEST Award (UI-Chicago 2011); Etter Memorial Lectureship in Chemistry (University of Minnesota 2011); Herbert Morawetz Lectureship (NYU-Poly 2011); W. J. Chute Distinguished Lectureship in Chemistry (Dalhousie University, Canada 2010); Molecular Foundry Distinguished Lectureship (Lawrence Berkeley National Lab 2010); The Eastman Chemical Company Award Lectureship (Goodyear Polymer Center 2010); 2010 Jerome B. Cohen Distinguished Lectureship (Northwestern University 2010); Naff Award Lectureship (University of Kentucky 2010); Outstanding Women Scientists Award (Indiana University, 2006); S. Nativ Award Lectureship (Technion, Israel 2006); Woodward Lectureship (Harvard University 2005); Pedersen Lectureship (DuPont 2005); American Chemical Society PROGRESS Lectureship Award (University of Wisconsin, Madison 2004); Distinguished Women Scientists Lectureship (University of Texas, Austin 2003).</p> <p><b>Supervised ~50 postdocs; 15 PhD students; ~60 undergraduate students; 10 high-school students ~ 150 publications, ~ 50 patents, &gt; 250 invited talks</b></p>
Major Interest	biomimetics, self-assembly, smart materials, bio-nano interfaces, crystal engineering, surface chemistry, nanofabrication, biomineralization, biomechanics and biooptics