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Aizenberg is elected to the American Academy of Arts and Sciences, American Philosophical Society, American Association for the Advancement of Science; and she is a Fellow of American Physical Society, Materials Research Society and External Member of the Max Planck Society. Dr. Aizenberg received numerous awards from the American Chemical Society and Materials Research Society, including Fred Kavli Distinguished Lectureship in Nanoscience, MRS Medal, Ronald Breslow Award for the Achievement in Biomimetic Chemistry, Arthur K. Doolittle Award in Polymeric Materials, ACS Industrial Innovation Award, and was recognized with Harvard's most prestigious Ledlie Prize that is awarded for the most valuable contribution to science made by a Harvard scientist. She has >230 publications and >50 issued patents.