

Curriculum Vitae of Dr. Takuzo AIDA

Affiliation:

Department of Chemistry and Biotechnology, School of Engineering, The University of Tokyo, 7-3-1 Hongo, Bunkyo-ku, Tokyo 113-8656, Japan.

Education:

BS: Faculty of Engineering, Yokohama National University (1979)

MS: School of Engineering, The University of Tokyo (1981)

PhD: School of Engineering, The University of Tokyo (1984)

Professional Appointments:

1984–1989: Assistant Professor, The University of Tokyo

1989–1991: Lecturer, The University of Tokyo

1991–1996: Associate Professor, The University of Tokyo

1996–2022: Professor, The University of Tokyo

2022–Now: Distinguished University Professor, The University of Tokyo

1996–1999: Researcher, Japan Science & Technology Agency, PRESTO Project

2000–2005: Director, Japan Science & Technology Agency, ERATO Nanospace Project

2005–2010: Director, Japan Science & Technology Agency, EARTO–SORST Project on Electronic Nanospace

2008–2012: Director, RIKEN Advanced Science Institute

2013–2013 Deputy Director, Riken Center for Emergent Matter Science

2004–2006: Associate Editor, *Journal of Materials Chemistry* (RSC)

2014–2021 Advisory Board, *Journal of the American Chemical Society* (ACS)

2009– Board of Reviewing Editors, *Science Magazine* (AAAS)



Selected Awards:

American Chemical Society Award in Polymer Chemistry (2009) / Chemical Society of Japan Award (2009) / Purple Ribbon (2010) / Alexander von Humboldt Research Award (2011) / Fujiwara Prize (2011) / Leo Esaki Prize (2015) / Dean Award, U. Tokyo (2016) / Chirality Medal (2017) / Japan Academy Prize (2018) / The Ichimura Prize in Science for Excellent Achievement (2020) / Ryoji Noyori ACES Award (2020) / Member of the Royal Netherlands Academy of Arts and Science (2020) / Member of the US National Academy of Engineering (2021) / The Netherlands Award for Supramolecular Chemistry (2021) / American Academy of Arts and Sciences (2023).

Selected Recent Publications:

- (1) Ultrafast Water Permeation through Nanochannels with a Densely Fluorinated Interior Surface, *Science* **2022**, 376, 738–743.
- (2) Solvent-Free Autocatalytic Supramolecular Polymerization, *Nature Mat.* **2022**, 21, 253.
- (3) An Elastic Metal–Organic Crystal with a Densely Catenated Backbone, *Nature* **2021**, 598, 298–303.
- (4) Nematic-to-Columnar Mesophase Transition by in situ Supramolecular Polymerization, *Science* **2019**, 363, 161–165.
- (5) Self-Assembly of Lattices with High Structural Complexity from a Geometrically Simple Molecule, *Science* **2018**, 361, 1242–1246.
- (6) Mechanically Robust, Readily Repairable Polymers via Tailored Noncovalent Cross-linking, *Science* **2018**, 359, 72–76.
- (7) Thermally Bisignate Supramolecular Polymerization, *Nature Chem.* **2017**, 9, 1133–1139.
- (8) An Autonomous Actuator Driven by Fluctuations in Ambient Humidity, *Nature Mat.* **2016**, 14, 1084–1089.
- (9) Sub-Nanoscale Hydrophobic Modulation of Salt Bridges in Aqueous Media, *Science* **2015**, 348, 555–559.
- (10) A Rational Strategy for the Realization of ‘Chain-Growth’ Supramolecular Polymerization, *Science* **2015**, 347, 646–651.
- (11) Ultrahigh-throughput Exfoliation of Graphite into Pristine ‘Single-Layer’ Graphene Using Microwaves and Molecularly Engineered Ionic Liquids, *Nature Chem.* **2015**, 7, 730–736.
- (12) Anisotropic Hydrogel with Embedded Electrostatic Repulsion among Cofacially Oriented 2D Electrolytes, *Nature* **2015**, 517, 68–72.
- (13) Manipulation of Discrete Nanostructures by Selective Modulation of Noncovalent Forces, *Science* **2014**, 344, 499–504.