CURRICULUM VITAE

Ali Javey, Ph.D.

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Date of Birth: December 3, 1980

Academic Appointments

2017-present — *Lam Research Distinguished Chair in Semiconductor Processing*
Electrical Engineering and Computer Sciences
University of California at Berkeley

2015-2017 — *Conexant Systems Distinguished Professor*
Electrical Engineering and Computer Sciences
University of California at Berkeley

2014-present — *Professor*
Electrical Engineering and Computer Sciences
University of California at Berkeley

2010-2014 — *Associate Professor*
Electrical Engineering and Computer Sciences
University of California at Berkeley

2006 – 2010 — *Assistant Professor*
Electrical Engineering and Computer Sciences
University of California at Berkeley
(2005-2006, on leave)

2019 - present — *Senior Faculty Scientist*
Materials Sciences Division
Lawrence Berkeley National Laboratory

2006 - 2019 — *Faculty Scientist*
Materials Sciences Division
Lawrence Berkeley National Laboratory

2011-present — *Program Leader*
Electronic Materials
Lawrence Berkeley National Laboratory

2011-2018 — *Co-Director*
Bay Area PV Consortium - DOE funded program ($25 million for 5 years)

	Co-Director
2008-Present	Berkeley Sensor and Actuator Center (BSAC) – NSF/industry funded research center at UC Berkeley with ~40 member companies.
2005 - 2006	*Junior Fellow* Harvard Society of Fellows Harvard University

Faculty Affiliations

2007 -	Applied Science & Technology Graduate Program, UC Berkeley
2006 -	Nanoscale Science & Engineering Graduate Group, UC Berkeley

Education

2005	Ph.D., Physical Chemistry, Stanford University
2001	B.S., Chemistry, Old Dominion University

Research Interests

high performance nanoelectronics; flexible electronics and sensors; nanofabrication; energy harvesting and conversion; programmable matter

Awards and Honors

2016	*Bakar Fellow (UC Berkeley)*
2015	*MRS Outstanding Young Investigator Award*
2014	*Nano Letters* Young Investigator Lectureship
2014	*Blavatnik* National Award for Young Scientists Finalist
2012	*UC Berkeley Electrical Engineering Outstanding Teaching Award*
2011	*APEC Science Prize for Innovation, Research and Education*
2011	*Netexplorateur of the Year Award*
2010	*IEEE Nanotechnology Early Career Award*
2010	*Alfred P. Sloan Research Fellow*
2010	*Mohr Davidow Ventures (MDV) Innovator Award*
2009	*MIT Technology Review TR35*
2009	*National Academy of Sciences Award for Initiatives in Research*
2008	*National Science Foundation CAREER Award*
2008	*U.S. Frontiers of Engineering, National Academy of Engineering*
2004	*Election to Harvard Society of Fellows, Junior Fellow*
2004	*MRS Graduate Student Gold Award*
2003-2005	*Semiconductor Research Corporation Peter Verhofstadt Fellowship*
2001	*Hampton Roads Section of the American Chemical Society (ACS) Award to the Outstanding Graduating Senior in Chemistry*
1998-2001	*Tidewater Builders Association Scholarship*

Journal Editorial Boards:

- Associate Editor – *ACS Nano*
- Editorial Board – *Nano Research*
- Editorial Board – *Scientific Reports*
- Advisory Board - *NPG Asia Materials*

Book & Book Chapter:

1. A. Javey, J. Kong (Eds.), "*Carbon Nanotube Electronics*", (Springer, New York, 2009).

2. Z. Fan, J. C. Ho, A. Javey, "Progresses and Challenges of Nanowire Integrated Circuitry", in *Nanoelectronics: Nanowires, Molecular Electronics, and Nanodevices*, Ed. K. Iniewski, (McGraw-Hill, New York, 2010).

Publications: *(>38,000 citations, h-index= 88; Google Scholar, 5/2019)*

1. D.-H. Lien, S. Z. Uddin, M. Yeh, M. Amani, H. Kim, J. W. Ager III, E. Yablonovitch, and A. Javey, "Electrical suppression of all nonradiative recombination pathways in monolayer semiconductors", *Science*, 364, 468–471, 2019.

2. K.Takei, W. Gao, C. Wang, A. Javey, "Physical and Chemical Sensing With Electronic Skin", *Proceedings of IEEE*, 2019, in press.

3. D. Zhang, L. Gu, Q. Zhang, Y. Lin, D.-H. Lien, M. Kam, S. Poddar, E. Garnett, A. Javey, Z. Fan, "Increasing photoluminescence quantum yield by nanophotonic design of quantum-confined halide perovskite nanowire arrays", *Nano Letters*, 2019, in press.

4. W. Ji, Y. Zhao, H. M. Fahad, J. Bullock, T. Allen, D.-H. Lien, S. De Wolf, A. Javey, "Dip Coating Passivation of Crystalline Silicon by Lewis Acids", *ACS Nano*, 13, 3723−3729, 2019.

5. W. Gao, H. Ota, D. Kiriya, K. Takei, A. Javey, "Flexible Electronics toward Wearable Sensing", Accounts of Chemical Research, 52, 523−533, 2019.

6. G. Gurudayal, J. W. Beeman, J. Bullock, H. Wang, J. Eichhorn, C. M. Towle, A. Javey, F. M. Toma, N. Mathews, J. W. Ager III, "Si Photocathode with Ag-Supported Dendritic Cu Catalyst for CO2 Reduction", Energy & Environmental Science, 12, 1068-1077, 2019.

7. Y. Zeng, S. Khandelwal, K. F. Shariar, Z. Wang, G. Lin, Q. Cheng, P. Cui, R. Opila, G. Balakrishnan, S. Addamane, P. Taheri, D. Kiriya, M. Hettick, A. Javey,