

NANO KOREA 2020

July 1~3, KINTEX, Korea

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EDUCATION

Harvard University, Cambridge, MA, USA	Postdoc	Chemistry	2002
Harvard University, Cambridge, MA, USA	PhD	Chemical Physics	2001
Stanford University, Stanford, CA, USA	BS	Chemistry	1996

PROFESSIONAL ACTIVITIES

- Chair, Department of Chemistry, Northwestern University, USA (2018 to Present)
- Charles E. and Emma H. Morrison Professor of Chemistry, Northwestern University, USA (2015 to Present)
- Professor of Materials Science and Engineering, Northwestern University, USA (2011 to Present)

AWARD AND HONORS

- Editor-in-Chief, *Nano Letters*, 2020
- American Chemical Society (ACS) Award in Surface Chemistry, 2020
- Fellow of the Optical Society of America (OSA), 2019
- Fellow of the American Physical Society (APS), 2018
- Research Corporation for Science Advancement (RCSA) Cottrell Scholar TREE Award, 2018
- U.S. Department of Defense Vannevar Bush Faculty Fellowship, 2017
- Fellow of the American Chemical Society (ACS), 2016
- Associated Student Government (ASG) Faculty Honor Roll, 2016 - 2017
- Materials Research Society (MRS) Fellow, 2016
- Fellow of the Royal Society of Chemistry (RSC), 2014
- American Chemical Society (ACS) Akron Section Award, 2013
- Radcliffe Institute for Advanced Study Fellow (Hrady Fellow), Harvard University, 2011
- Defense Science Study Group Member, 2010
- MRS Outstanding Young Investigator Award, 2009
- ACS National Fresenius Award (Phi Lambda Upsilon and ACS), 2008
- NIH Director's Pioneer Award, 2008
- Cottrell Scholar Award (RCSA), 2005
- David and Lucile Packard Fellowship, 2003-2007
- Victor K. LaMer Award (ACS Colloids and Surface Chemistry), 2003
- Research Innovation Award (RCSA), 2002

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MAIN SCIENTIFIC PUBLICATIONS

- J. Guan, L.K. Sagar, R. Li, D. Wang, G. Bappi, W. Wang, N. Watkins, M.R. Bourgeois, L. Levina, F. Fan, S. Hoogland, O. Voznyy, J. Martins de Pina, R.D. Schaller, G.C. Schatz, E.H. Sargent, and T.W. Odom, *ACS Nano* **14**, 3426 (2020). “Quantum Dot-Plasmon Lasing with Controlled Polarization Patterns.”
- D. Rhee, J.T. Paci, S. Deng, W-K. Lee, G.C. Schatz, and T.W. Odom, *ACS Nano* **14**, 166 (2019). “Soft Skin Layers Enable Area-Specific, Multiscale Graphene Wrinkles with Switchable Orientations.”
- A. Fernandez-Bravo, D. Wang, C. Tajon, A. Teitelboim, J. Guan, G.C. Schatz, B.E. Cohen, E. Chan, P.J. Schuck, and T.W. Odom, *Nat. Mater.* **18**, 1172 (2019). “Ultralow-threshold, continuous-wave upconverting lasing from subwavelength plasmons.”
- D. Bhowmik, K.S.B. Culver, T. Liu, and T.W. Odom, *ACS Nano* **13**, 13637 (2019). “Resolving Single-Nanoconstruct Dynamics during Targeting and Nontargeting Live-Cell Membrane Interactions.”
- J. Hu, D. Wang, D. Bhowmik, T. Liu, S. Deng, M. Knudson, X. Ao, and T.W. Odom, *ACS Nano*, **13**, 4613 (2019). “Lattice-Resonance Metalenses for Fully Reconfigurable Imaging.”
- D. Wang, M.R. Bourgeois, W-K. Lee, R. Li, W. Wang, D. Trivedi, M. Knudson, G.C. Schatz, and T.W. Odom, *Nano Lett.* **18**, 4549 (2018). “Stretchable Nanolasing from Hybrid Quadrupole Plasmons.”
- W-K. Lee, S. Yu, C.J. Engel, D. Rhee, W. Chen, and T.W. Odom, *PNAS* **114**, 8734 (2017). “Concurrent Design of Quasi-Random Photonic Nanostructures.”
- D. Wang, A. Yang, W. Wang, Y. Hua, R.D. Schaller, G.C. Schatz, and T.W. Odom, *Nat. Nanotechnol.* **12**, 889 (2017). “Band-edge Engineering for Multi-Modal Nanolasing in Plasmonic Superlattices.”
- W.K. Lee, C.J. Engel, M.D. Huntington, J. Hu, and T.W. Odom, *Nano Lett.* **15**, 5624 (2015). “Controlled Three-Dimensional Hierarchical Structuring by Memory-Based, Sequential Wrinkling.”
- W. Zhou, M. Dridi, J.Y. Suh, C.H. Kim, D.T. Co, M.R. Wasielewski, G.C. Schatz, and T.W. Odom, *Nat Nanotechnol.* **8**, 506 (2013). “Lasing action in strongly coupled plasmonic nanocavity arrays.”
- D.H.M. Dam, J. Lee, P. Sisco, D. Co, M. Zhang, M.R. Wasielewski, and T.W. Odom, *ACS Nano* **6**, 3318 (2012). “Direct Observation of Nanoparticle-Cancer Cell Nucleus Interactions.”
- J. Henzie, M.H. Lee, and T.W. Odom, *Nat. Nanotechnol.* **2**, 549 (2007). “Multiscale Patterning of Plasmonic Metamaterials.”

RESEARCH INTERESTS

- Light-matter interactions at the nanoscale; nanoparticle lasers and flat lenses
- Single-particle bioimaging; cancer therapeutics
- Large-area nanofabrication and strain-relief nanowrinkle patterning; soft and hard hierarchical nanomaterials
- Synthesis of anisotropic nanoparticles