

NANO KOREA 2020

July 1~3, KINTEX, Korea

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EDUCATION

Vanderbilt University	Ph.D	Materials Science	2015
Tianjin University	BS	Optoelectronics	2011

PROFESSIONAL ACTIVITIES

- Associate Professor, Department of Precision Instrument, Tsinghua University, China, (2018-present)
- Metamaterial Scientist, Intellectual Ventures, USA, (2017-2018)
- Post-doctoral Researcher, Sandia National Laboratories, USA, (2015-2017)

AWARD AND HONORS

- Forbes China 30 under 30 (Science Category)
- Paper of the Year Award, School of Engineering, Vanderbilt University, USA
- Material Research Society Fall Meeting Travel Grant
- OSA Leadership Conference Travel Grant
- Dissertation Enhancement Grant, Vanderbilt University, USA
- Outstanding Undergraduate, Tianjin University, China

MAIN SCIENTIFIC PUBLICATION

- Y. Yang, J. Lu, A. Manjavacas, T. S. Luk, H. Liu, K. Kelley, J-P. Maria, E. L. Runnerstrom, M. B. Sinclair, S. Ghimire and I. Brener, "High-harmonic generation from an epsilon-near-zero material", *Nature Physics*, 15, 1022 (2019).
- Y. Yang, K. Kelley, E. Sacht, S. Campione, T. S. Luk, J-P. Maria, M. B. Sinclair, and I. Brener, "Femtosecond optical polarization switching with a cadmium-oxide-based perfect absorber", *Nature Photonics*, 11, 390 (2017).
- Y. Yang, W. Wang, A. Boulesbaa, I. Kravchenko, D. Briggs, A. Puretzky, D. Geohegan and J. Valentine, "Nonlinear Fano resonant dielectric metasurfaces", *Nano Letters*, 15, 7388 (2015)
- Y. Yang, I. Kravchenko, D. Briggs and J. Valentine, "All-dielectric metasurface analogue of electromagnetically induced transparency", *Nature Communications*, 5753 (2014)

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- Y. Yang, W. Wang, P. Moitra, I. Kravchenko, D. Briggs and J. Valentine, “Dielectric meta-reflectarray for broadband polarization conversion and optical vortex generation”, Nano Letters 14, 1394 (2014)
- P. Moitra†, Y. Yang†, Z. Anderson, I. Kravchenko, D. Briggs and J. Valentine, “Realization of an all-dielectric zero-index optical metamaterial”, Nature Photonics 7, 791 (2013) (†: Equal contributions)

RESEARCH INTERESTS

- Nanophotonics
- Metamaterials
- Nonlinear Optics