



Yu Wang

Postdoctoral Scholar, Mechanical Engineering

Bio

STANFORD ADVISORS

- Arunava Majumdar, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **In Situ Investigation of Ultrafast Dynamics of Hot Electron-Driven Photocatalysis in Plasmon-Resonant Grating Structures** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
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- **Voltage-induced modulation in the charge state of Si-vacancy defects in diamond using high voltage nanosecond pulses** *APPLIED PHYSICS LETTERS*
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- **Monitoring Reaction Intermediates in Plasma-Driven SO₂, NO, and NO₂ Remediation Chemistry Using In Situ SERS Spectroscopy** *ANALYTICAL CHEMISTRY*
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- **Enhanced Plasma Generation from Metal Nanostructures via Photoexcited Hot Electrons** *JOURNAL OF PHYSICAL CHEMISTRY C*
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- **Au Nanoparticle Enhancement of Plasma-Driven Methane Conversion into Higher Order Hydrocarbons via Hot Electrons** *ACS APPLIED NANO MATERIALS*
Zhao, B., Aravind, I., Yang, S., Wang, Y., Li, R., Cronin, S. B.
2020; 3 (12): 12388-12393
- **Enhanced Low-Temperature Thermoelectric Performance in (PbSe)_{1+δ}(VSe₂)₁ Heterostructures due to Highly Correlated Electrons in Charge Density Waves** *NANO LETTERS*
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2020; 20 (11): 8008-8014

- **Monitoring Local Electric Fields using Stark Shifts on Naphthyl Nitrile-Functionalized Silicon Photoelectrodes** *JOURNAL OF PHYSICAL CHEMISTRY C*

Shi, H., Pekarek, R. T., Chen, R., Zhang, B., Wang, Y., Aravind, I., Cai, Z., Jensen, L., Neale, N. R., Cronin, S. B.

2020; 124 (31): 17000-17005

- **Hot Electron Driven Photocatalysis on Plasmon-Resonant Grating Nanostructures** *ACS APPLIED MATERIALS & INTERFACES*

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