

# Stanford

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## Alexander Al Zubeidi

Postdoctoral Scholar, Materials Science and Engineering

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### Bio

#### STANFORD ADVISORS

- Jennifer Dionne, Postdoctoral Faculty Sponsor
- Jennifer Dionne, Postdoctoral Research Mentor

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### Teaching

#### COURSES

##### 2023-24

- Solar energy conversion and storage: BIOS 255 (Aut)

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### Publications

#### PUBLICATIONS

- **d-Band Holes React at the Tips of Gold Nanorods** *JOURNAL OF PHYSICAL CHEMISTRY LETTERS*  
Al-Zubeidi, A., Wang, Y., Lin, J., Flatebo, C., Landes, C. F., Ren, H., Link, S.  
2023; 5297-5304
- **Mechanism for plasmon-generated solvated electrons.** *Proceedings of the National Academy of Sciences of the United States of America*  
Al-Zubeidi, A., Ostovar, B., Carlin, C. C., Li, B. C., Lee, S. A., Chiang, W., Gross, N., Dutta, S., Misiura, A., Searles, E. K., Chakraborty, A., Roberts, S. T., Dionne, et al  
2023; 120 (3): e2217035120
- **Single-Particle Hyperspectral Imaging Reveals Kinetics of Silver Ion Leaching from Alloy Nanoparticles** *ACS NANO*  
Al-Zubeidi, A., Stein, F., Flatebo, C., Rehbock, C., Jebeli, S., Landes, C. F., Barcikowski, S., Link, S.  
2021; 15 (5): 8363-8375
- **Single-particle scattering spectroscopy: fundamentals and applications** *NANOPHOTONICS*  
Al-Zubeidi, A., McCarthy, L. A., Rafiei-Miandashti, A., Heiderscheid, T. S., Link, S.  
2021; 10 (6): 1621-1655
- **Nanoelectrode-emitter spectral overlap amplifies surface enhanced electrogenerated chemiluminescence** *JOURNAL OF CHEMICAL PHYSICS*  
Heiderscheid, T. S., Gallagher, M. J., Baiyasi, R., Collins, S. E., Jebeli, S., Scarabelli, L., Al-Zubeidi, A., Flatebo, C., Chang, W., Landes, C. F., Link, S.  
2019; 151 (14): 144712
- **Single-Particle Emission Spectroscopy Resolves d-Hole Relaxation in Copper Nanocubes** *ACS ENERGY LETTERS*  
Cai, Y., Collins, S. E., Gallagher, M. J., Bhattacharjee, U., Zhang, R., Chow, T., Ahmadivand, A., Ostovar, B., Al-Zubeidi, A., Wang, J., Nordlander, P., Landes, C. F., Link, et al  
2019; 4 (10): 2458-2465

- **Hot Holes Assist Plasmonic Nanoelectrode Dissolution** *NANO LETTERS*

Al-Zubeidi, A., Hoener, B. S., Collins, S. E., Wang, W., Kirchner, S. R., Jebeli, S., Joplin, A., Chang, W., Link, S., Landes, C. F.

2019; 19 (2): 1301-1306

- **Disentangling chemical effects in ionic-liquid-based Cu leaching from chalcopyrite** *JOURNAL OF ELECTROANALYTICAL CHEMISTRY*

Al-Zubeidi, A., Godfrey, D., Albrecht, T.

2018; 819: 130-135