

# Stanford

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## Liwei Zheng

Postdoctoral Scholar, Radiology

### Bio

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#### PROFESSIONAL EDUCATION

- Bachelor of Science, Wuhan University (2013)
- Doctor of Philosophy, Johns Hopkins University (2018)

#### STANFORD ADVISORS

- H. Tom Soh, Postdoctoral Faculty Sponsor

### Publications

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#### PUBLICATIONS

- **Independent Generation and Reactivity of 2'-Deoxyguanosin-N1-yl Radical.** *The Journal of organic chemistry*  
Zheng, L., Greenberg, M. M.  
2020
- **Rational design of aptamer switches with programmable pH response.** *Nature communications*  
Thompson, I. A., Zheng, L., Eisenstein, M., Soh, H. T.  
2020; 11 (1): 2946
- **Independent Generation and Time-Resolved Detection of 2'-Deoxyguanosin-N2-yl Radical.** *Angewandte Chemie (International ed. in English)*  
Zheng, L., Dai, X., Su, H., Greenberg, M. M.  
2020
- **Metal-Organic Framework Nanocarriers for Drug Delivery in Biomedical Applications** *NANO-MICRO LETTERS*  
Sun, Y., Zheng, L., Yang, Y., Qian, X., Fu, T., Li, X., Yang, Z., Yan, H., Cui, C., Tan, W.  
2020; 12 (1)
- **Positional Dependence of DNA Hole Transfer Efficiency in Nucleosome Core Particles** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*  
Sun, H., Zheng, L., Yang, K., Greenberg, M. M.  
2019; 141 (26): 10154–58
- **Independent Generation of Reactive Intermediates Leads to an Alternative Mechanism for Strand Damage Induced by Hole Transfer in Poly(dA-T) Sequences** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*  
Sun, H., Zheng, L., Greenberg, M. M.  
2018; 140 (36): 11308–16
- **Traceless Tandem Lesion Formation in DNA from a Nitrogen-Centered Purine Radical** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*  
Zheng, L., Greenberg, M. M.  
2018; 140 (20): 6400–6407
- **DNA Damage Emanating From a Neutral Purine Radical Reveals the Sequence Dependent Convergence of the Direct and Indirect Effects of gamma-Radiolysis** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*  
Zheng, L., Greenberg, M. M.  
2017; 139 (49): 17751–54
- **Independent Photochemical Generation and Reactivity of Nitrogen-Centered Purine Nucleoside Radicals from Hydrazines** *ORGANIC LETTERS*

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Zheng, L., Lin, L., Qu, K., Adhikary, A., Sevilla, M. D., Greenberg, M. M.

2017; 19 (23): 6444–47

● **Independent generation of neutral purine radicals involved in DNA damage**

Zheng, L., Greenberg, M.

AMER CHEMICAL SOC.2017

● **Independent generation of 2'-deoxyadenosine-N6-yl radical and its reactivity in DNA**

Zheng, L., Griesser, M., Pratt, D., Greenberg, M.

AMER CHEMICAL SOC.2017

● **Aminyl Radical Generation via Tandem Norrish Type I Photocleavage, beta-Fragmentation: Independent Generation and Reactivity of the 2'-Deoxyadenosin- N6-yl Radical** *JOURNAL OF ORGANIC CHEMISTRY*

Zheng, L., Griesser, M., Pratt, D. A., Greenberg, M. M.

2017; 82 (7): 3571–80

● **Covalently Bound Benzyl Ligand Promotes Selective Palladium-Catalyzed Oxidative Esterification of Aldehydes with Alcohols** *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*

Liu, C., Tang, S., Zheng, L., Liu, D., Zhang, H., Lei, A.

2012; 51 (23): 5662–66

● **Nickel-Catalyzed Heck-Type Alkenylation of Secondary and Tertiary  $\alpha$ -Carbonyl Alkyl Bromides** *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*

Liu, C., Tang, S., Liu, D., Yuan, J., Zheng, L., Meng, L., Lei, A.

2012; 51 (15): 3638–41