

Ziqi Deng
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CURRICULUM VITAE

EDUCATION BACKGROUND

Sep 2015 – Jul 2019	Bachelor of Science, Applied Chemistry Shantou University, P.R. China
Jan 2021 – Jan 2025	Doctor of Philosophy, Physical Chemistry The University of Hong Kong

RESEARCH EXPERIENCE

July 2019 – Dec 2020	Research Assistance Shantou University, P.R. China
Jan 2025 – Present	Post-doctoral Fellow Hong Kong University of Science and Technology

PUBLICATIONS:

- Totally 31 publications including 9 publications as first author or co-first author
- Profound collaboration experience in different areas
- H-index: 11

Selected publications (‡ = The author contributed equally)

1. **Deng, Z.**; Huang, C.; Luo, Y.; He, J.; Li, L.; Pang, X.; Huang, G. and Phillips, D. L. Revealing the excited-state mechanisms of the polymorphs of a hot exciton material *Nat. Comm.* **2025**, *16*, 258
2. **Deng, Z.**; Huang, G.; Luo, Y.; He, J. and Phillips, D. L. Ultrafast Spectroscopic Investigation of the Aggregation Induced TADF from High-Level Reversed Intersystem Crossing. *J. Phys. Chem. Lett.* **2024**, *15*, 11657–11663
3. **Deng, Z.**; Sun, S.; Zhou, M.; Huang, G.; Pang, J. and Li, M.-D. Unveiling Ultrafast Energy Dissipation Pathway of Nanocrystalline Sunscreen Oxybenzone and Dioxybenzone *J. Phys. Chem. Lett.* **2019**, *10*, 6499–6503.
4. **Deng, Z.**‡; Li, L.‡; Jia, H.; Li, N.; He, J.; Li, M.-D.; Phillips, D. L. and Li, Y. Insights into the Photodynamics of Fluorescence Emission and Singlet Oxygen Generation of Fluorogen Activating Protein-Malachite Green Systems *Chem. Eur. J.* **2023**, *29*, e202203684.
5. Huang, G.-‡; **Deng, Z.**‡; Pang, J.‡; Li, J.; Ni, S.; Li, J.; Zhou, C.; Li, H.; Xu, B.; Dang, L. and Li, M.-D. Long-Range Charge Transportation Induced Organic Host–Guest Dual Color Long Persistent Luminescence *Adv. Optical Mater.* **2021**, *9*, 2101337.
6. Wang, C.; **Deng, Z.**; Phillips, D. L. and Liu, J. Extension of Nonalternant Nanographenes Containing Nitrogen-Doped Stone-Thrower-Wales Defect *Angew. Chem. Int. Ed.*, **2023**, 62,

e202306890.

7. Li, X.; Li, W.; **Deng, Z.**; Ou, X.; Gao, F.; He, S.; Li, X.; Qiu, Z.; Kwok, R. T. K.; Sun, J.; Phillips, D. L.; Lam, J. W. Y.; Guo, Z. and Tang, B. A Bright and Ultralong Organic Phosphorescence via Sulfonic Acid Functionalization for High-Contrast Real-Time Light-Writing Display *J. Am. Chem. Soc.* **2025**, *147*(17), 14198–14210
8. Deng, Z.; Kong, F. -C.; **Deng, Z.**; Zhou, J.; Yang, S.; He, S.; Zhang, J.; Zuo, Y.; Wang, J.; Chen, X.; Kwok, R.; Jia, G.; Chow, P.; Phillips, D. L.; Alam, P.; Lam, J.; Tang, B. Visualizing Triplet Energy Transfer in Organic Near-Infrared Phosphorescent Host-Guest Materials *Angew. Chem. Int. Ed.* **2024**, e202412182
9. Liu, L.; Zhang, M.; **Deng, Z.**; Yan, L.; Lin, Y.; Phillips, L.; Yam, V. W. W. and He, J. NIR-II emissive anionic copper nanoclusters with intrinsic photoredox activity in single-electron transfer *Nat. Commun.* **2024**, *15*, 4688.
10. Dong, C.; Wang, Y.; **Deng, Z.**; Wang, W.; Marinova, M. Tayeb, K. B; Morin, J. C.; Dubois, M.; Trentesaux, M.; Kolyagin, Y. G.; Tran, M. N.; Martin-Diaconescu, V.; Safonova, O.; Zaffran, J.; Khodakov, A.Y. and Ordonsky, V.V. Photocatalytic Dihydroxylation of Light Olefins to Glycols by Water *Nat. Commun.* **2024**, *15*, 8210

Full publication list: <https://www.researchgate.net/profile/Ziqi-Deng/research>