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EDUCATION	<hr/> <div> <div> THE GEORGE WASHINGTON UNIVERSITY <i>Department of Civil and Environmental Engineering</i> Ph.D. in Environmental Engineering Supervisor: Professor Danmeng Shuai </div> <div>01/2019 – present</div> </div> <div> <div> UNIVERSITY OF SCIENCE AND ENGINEERING OF CHINA <i>Hefei National Laboratory for Physical Sciences at the Microscale</i> M.Sc. in Chemistry Supervisor: Professor Yujie Xiong Thesis Title: Designing TiO₂-supported PdPt alloys for photocatalytic water-donating selective alkyne semihydrogenation </div> <div>09/2015 – 11/2018</div> </div> <div> <div> UNIVERSITY OF SCIENCE AND TECHNOLOGY OF CHINA <i>School of the Gifted Young</i> B.Sc. in Material Physics Supervisor: Professor Yi Xie Thesis Title: Photocatalytic properties of ultrathin two-dimensional nanosheets of GaSe_{1-x}S_x </div> <div>09/2011 – 06/2015</div> </div>	
PUBLICATIONS	<hr/> <ul style="list-style-type: none"> • M. Li, D. Liu, X. Chen, Z. Yin, H. Shen, A. Aiello, K. R. McKenzie Jr, N. Jiang, X. Li, M. J. Wagner, D. P. Durkin*, H. Chen*, D. Shuai*, Radical-driven decomposition of graphitic carbon nitride nanosheets: light exposure matters. (on submission) • Z. Zhou, M. Li, C. Kuai, Y. Zhang, V. F. Smith, F. Lin, A. Aiello, D. P. Durkin*, H. Chen*, D. Shuai*, Single-Atom catalysis for oxidizing contaminants of emerging concern via high-valent Fe species. <i>J. Hazard. Mater.</i>, 2021,418: 126294 • Y. Feng, L. Tao, Y. He, Q. Jin, C. Kuai, Y. Zheng, M. Li, Q. Hou, Z. Zheng, F. Lin*, and H. Huang*, Chemical-enzymatic fractionation to unlock the potential of biomass-derived carbon materials for sodium ion batteries. <i>J. Mater. Chem. A</i>, 2019, 7: 26954-26965. • M. Li, H. Huang, J. Low, C. Gao, R. Long*, Y. Xiong*, Recent progress on electrocatalyst and photocatalyst design for nitrogen reduction. <i>Small Methods</i>, 2019, 3: 1800388. • M. Li, N. Zhang, R. Long*, W. Ye, C. Wang, and Y. Xiong*, PdPt alloy nanocatalysts supported on TiO₂: maneuvering metal-Hydrogen interactions for light-driven and water-donating selective alkyne semihydrogenation. <i>Small</i>, 2017, 13: 1604173. • N. Zhang, X. Li, Y. Liu, R. Long, M. Li, S. Chen, Z. Qi, C. Wang, L. Song, J. Jiang, and Y. Xiong*, Defective tungsten oxide hydrate nanosheets for boosting aerobic coupling of amines: synergistic catalysis by oxygen vacancies and Brønsted acid sites. <i>Small</i>, 2017, 13: 1701354. <p>* Corresponding authors.</p>	
PATENT	<hr/> <ul style="list-style-type: none"> • Y. Xiong M. Li, N. Zhang, R. Long, Methods of light-driven and water-donating selective alkyne semihydrogenation. CN 106905113 B <i>Small</i>, 2017, 13: 1604173. <hr/>	

HONORS AND AWARDS	• C. Ellen Gonter Environmental Chemistry Award	2021
	• Graduate Research Assistantship	2019 – 2021
	• Stipend Fellowship	2019 – 2021
	• National Scholarship for Graduate Students (top 5%)	2017
	• First-class Academic Scholarship	2015 – 2017
	• HFNL Fellowship	2015 – 2017
	• 2011 Excellent New Student Award	2011

CONFERENCE PRESENTATIONS	• 2021 ACS Fall C. Ellen Gonter Graduate Student Award Symposium (Invited), M. Li , D. Liu, X. Chen, Z. Yin, H. Shen, A. Aiello, K. R. McKenzie Jr, N. Jiang, X. Li, M. J. Wagner, D. P. Durkin, H. Chen, D. Shuai, <i>Radical-driven decomposition of graphitic carbon nitride: light exposure matters</i> Oral	
	• 95th ACS Colloid and Surface Science Symposium, M. Li , D. Shuai, <i>Dilemma of activity and stability: Intrinsic photoreactivity promotes 2D nanomaterial decomposition under radical attack</i> Oral	
	• 2021 ACS Spring, M. Li , D. Liu, X. Chen, Z. Yin, H. Shen, A. Aiello, K. R. McKenzie Jr, N. Jiang, X. Li, M. J. Wagner, D. P. Durkin, H. Chen, D. Shuai, <i>Radical-driven decomposition of graphitic carbon nitride: light exposure matters</i> Oral	
	• 2021 ACS Spring, Z. Zhou, M. Li , C. Kuai, Y. Zhang, V. F. Smith, F. Lin, A. Aiello, D. P. Durkin, H. Chen, D. Shuai, <i>Single-Atom Catalysis for Oxidizing Contaminants of Emerging Concern via High-Valent Fe Species</i> Poster	
	• 2018 CCS in Hangzhou, M. Li , Y. Xiong, <i>PdPt alloy nanocatalysts supported on TiO₂: maneuvering metal-hydrogen interactions for light-driven and water-donating selective alkyne semihydrogenation</i> Poster	

RESEARCH EXPERIENCE	GRADUATE RESEARCH ASSISTANT, THE GEORGE WASHINGTON UNIVERSITY	
	Supervisor: Professor Danmeng Shuai	01/2019 – present
	• Fate and transformation of graphitic carbon nitride nanosheets in aquatic environments	
	• Toxicity comparison of fresh and aged graphitic carbon nitride nanosheets	
	• Applications of single-atom catalysts in environmental remediation	
	GRADUATE RESEARCH ASSISTANT, UNIVERSITY OF SCIENCE AND TECHNOLOGY OF CHINA	
	Supervisor: Professor Yujie Xiong	09/2015 – 11/2018
	• Photocatalytic CO ₂ conversion by controlled hierarchical nanostructures	
	• Photocatalytic hydrogen transfer from water for selective alkyne semihydrogenation with the TiO ₂ -Pd _x Pt _{1-x} hybrid structures	
	• Catalytic properties of defective WO ₃ ·H ₂ O nanosheets for aerobic couplings reactions	
	UNDERGRADUATE RESEARCH, UNIVERSITY OF SCIENCE AND TECHNOLOGY OF CHINA	
	Supervisor: Professor Yi Xie & Professor Xiaodong Zhang	09/2013 – 06/2015
	• Photocatalytic water splitting through ultrathin two-dimensional nanosheets of GaSe _{1-x} S _x	
	• National training program of innovation and entrepreneurship for undergraduates: photothermal properties of ultrathin two-dimensional nanosheets of transition metal chalcogenides	

TEACHING
EXPERIENCE

- **Guest Lecturer:** Introduction to photocatalysts and associated applications 2021
 - Assisting in Environmental Engineering I: Water Resources and Water Quality (CE 3520) 2020 Spring
 - In-home and online tutoring for high school students 2015 – 2018
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PROFESSIONAL
EXPERIENCE &
ACTIVITIES

- REVIEWER
- Journal of Hazardous Materials
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CHARACTERIZATION
SKILLS

Transmission Electron Microscopy
Scanning Electron Microscope