

CONTACT INFORMATION	Department of Civil & Environmental Engineering The George Washington University Science and Engineering Hall 800 22nd St NW Washington, DC, 20052	<i>E-mail:</i> lmq123@gwu.edu <i>Tel:</i> +1 (571)274-9402 <i>ORCID:</i> 0000-0002-0567-9716
EDUCATION	THE GEORGE WASHINGTON UNIVERSITY <i>Department of Civil and Environmental Engineering</i> Ph.D. in Environmental Engineering Supervisor: Professor Danmeng Shuai	01/2019 – present
	UNIVERSITY OF SCIENCE AND TECHNOLOGY OF CHINA <i>Hefei National Laboratory for Physical Sciences at the Microscale</i> M.Sc. in Chemistry Supervisor: Professor Yujie Xiong Thesis Title: Designing TiO ₂ -supported PdPt alloys for photocatalytic water-donating selective alkyne semihydrogenation	09/2015 – 11/2018
	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	09/2011 – 06/2015
PUBLICATIONS	<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. <i>Environ. Sci. Technol.</i>, 2021 • C. Zhang, Y. Li*, M. Li, D. Shuai, X. Zhou, X. Xiong, C. Wang*, Q. Hu, Continuous photocatalysis <i>via</i> photo-charging and dark-discharging for sustainable environmental remediation: Performance, mechanism, and influencing factors. <i>J. Hazard. Mater.</i>, 2021, 420: 126607 • 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. 	
	* Corresponding authors.	
PATENT	<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. 	

HONORS AND AWARDS	<ul style="list-style-type: none"> • C. Ellen Gonter Environmental Chemistry Award 2021 • CSW Student Travel 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	<ul style="list-style-type: none"> • 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
	<ul style="list-style-type: none"> • Fate and transformation of graphitic carbon nitride nanosheets in aquatic environments • Toxicity study 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
	<ul style="list-style-type: none"> • Photocatalytic CO₂ conversion by controlled hierarchical nanostructures • Photocatalytic hydrogen transfer from water for selective alkyne semihydrogenation with the TiO₂-Pd_xPt_{1-x} hybrid structures • Catalytic properties of defective WO₃·H₂O 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
	<ul style="list-style-type: none"> • 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
-

PROFESSIONAL
EXPERIENCE &
ACTIVITIES

- REVIEWER
- Journal of Hazardous Materials
-

CHARACTERIZATION
SKILLS

- Transmission Electron Microscopy
- Scanning Electron Microscopy