

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	<hr/> <div> <div>           THE GEORGE WASHINGTON UNIVERSITY  <i>Department of Civil and Environmental Engineering</i>  <b>Ph.D. in Environmental Engineering</b>            Supervisor: Professor Danmeng Shuai         </div> <div>01/2019 – present</div> </div> <div> <div>           UNIVERSITY OF SCIENCE AND TECHNOLOGY OF CHINA  <i>Hefei National Laboratory for Physical Sciences at the Microscale</i>  <b>M.Sc. in Chemistry</b>            Supervisor: Professor Yujie Xiong            Thesis Title: Designing TiO<sub>2</sub>-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>B.Sc. in Material Physics</b>            Supervisor: Professor Yi Xie            Thesis Title: Photocatalytic properties of ultrathin two-dimensional nanosheets of GaSe<sub>1-x</sub>S<sub>x</sub> </div> <div>09/2011 – 06/2015</div> </div>	
PUBLICATIONS	<hr/> <ul style="list-style-type: none"> <li>• <b>M. Li</b>, 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>, <b>2021</b></li> <li>• C. Zhang, Y. Li*, <b>M. Li</b>, 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>, <b>2021</b>, 420: 126607</li> <li>• Z. Zhou, <b>M. Li</b>, 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>, <b>2021</b>, 418: 126294</li> <li>• Y. Feng, L. Tao, Y. He, Q. Jin, C. Kuai, Y. Zheng, <b>M. Li</b>, 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>, <b>2019</b>, 7: 26954-26965.</li> <li>• <b>M. Li</b>, H. Huang, J. Low, C. Gao, R. Long*, Y. Xiong*, Recent progress on electrocatalyst and photocatalyst design for nitrogen reduction. <i>Small Methods</i>, <b>2019</b>, 3: 1800388.</li> <li>• <b>M. Li</b>, N. Zhang, R. Long*, W. Ye, C. Wang, and Y. Xiong*, PdPt alloy nanocatalysts supported on TiO<sub>2</sub>: maneuvering metal-Hydrogen interactions for light-driven and water-donating selective alkyne semihydrogenation. <i>Small</i>, <b>2017</b>, 13: 1604173.</li> <li>• N. Zhang, X. Li, Y. Liu, R. Long, <b>M. Li</b>, 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>, <b>2017</b>, 13: 1701354.</li> </ul> <p>* Corresponding authors.</p>	
PATENT	<hr/> <ul style="list-style-type: none"> <li>• Y. Xiong <b>M. Li</b>, N. Zhang, R. Long, Methods of light-driven and water-donating selective alkyne semihydrogenation. CN 106905113 B <i>Small</i>, <b>2017</b>, 13: 1604173.</li> </ul>	

HONORS AND AWARDS	<ul style="list-style-type: none"> <li>• C. Ellen Gonter Environmental Chemistry Award 2021</li> <li>• CSW Student Travel Award 2021</li> <li>• Graduate Research Assistantship 2019 – 2021</li> <li>• Stipend Fellowship 2019 – 2021</li> <li>• National Scholarship for Graduate Students (top 5%) 2017</li> <li>• First-class Academic Scholarship 2015 – 2017</li> <li>• HFNL Fellowship 2015 – 2017</li> <li>• 2011 Excellent New Student Award 2011</li> </ul>
CONFERENCE PRESENTATIONS	<ul style="list-style-type: none"> <li>• 2021 ACS Fall C. Ellen Gonter Graduate Student Award Symposium (<b>Invited</b>), <b>M. Li</b>, 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> <b>Oral</b></li> <li>• 95th ACS Colloid and Surface Science Symposium, <b>M. Li</b>, D. Shuai, <i>Dilemma of activity and stability: Intrinsic photoreactivity promotes 2D nanomaterial decomposition under radical attack</i> <b>Oral</b></li> <li>• 2021 ACS Spring, <b>M. Li</b>, 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> <b>Oral</b></li> <li>• 2021 ACS Spring, Z. Zhou, <b>M. Li</b>, 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> <b>Poster</b></li> <li>• 2018 CCS in Hangzhou, <b>M. Li</b>, Y. Xiong, <i>PdPt alloy nanocatalysts supported on TiO<sub>2</sub>: maneuvering metal-hydrogen interactions for light-driven and water-donating selective alkyne semihydrogenation</i> <b>Poster</b></li> </ul>
RESEARCH EXPERIENCE	GRADUATE RESEARCH ASSISTANT, THE GEORGE WASHINGTON UNIVERSITY
	Supervisor: Professor Danmeng Shuai 01/2019 – present
	<ul style="list-style-type: none"> <li>• Fate and transformation of graphitic carbon nitride nanosheets in aquatic environments</li> <li>• Toxicity study of fresh and aged graphitic carbon nitride nanosheets</li> <li>• Applications of single-atom catalysts in environmental remediation</li> </ul>
	GRADUATE RESEARCH ASSISTANT, UNIVERSITY OF SCIENCE AND TECHNOLOGY OF CHINA
	Supervisor: Professor Yujie Xiong 09/2015 – 11/2018
	<ul style="list-style-type: none"> <li>• Photocatalytic CO<sub>2</sub> conversion by controlled hierarchical nanostructures</li> <li>• Photocatalytic hydrogen transfer from water for selective alkyne semihydrogenation with the TiO<sub>2</sub>-Pd<sub>x</sub>Pt<sub>1-x</sub> hybrid structures</li> <li>• Catalytic properties of defective WO<sub>3</sub>·H<sub>2</sub>O nanosheets for aerobic couplings reactions</li> </ul>
	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"> <li>• Photocatalytic water splitting through ultrathin two-dimensional nanosheets of GaSe<sub>1-x</sub>S<sub>x</sub></li> <li>• National training program of innovation and entrepreneurship for undergraduates: photothermal properties of ultrathin two-dimensional nanosheets of transition metal chalcogenides</li> </ul>

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