

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> <b>Ph.D. in Environmental Engineering</b> 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> <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	09/2015 – 11/2018
	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>	09/2011 – 06/2015
PUBLICATIONS	<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>, 55: 12414.</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>	
	* Corresponding authors.	
PATENT	<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	• C. Ellen Gonter Environmental Chemistry Award	2021
	• SNO Student 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

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CONFERENCE PRESENTATIONS	• 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>
	• 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>
	• 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>
	• 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>
	• 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>

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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 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
	• Photocatalytic CO <sub>2</sub> conversion by controlled hierarchical nanostructures	
	• 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	
	• Catalytic properties of defective WO <sub>3</sub> ·H <sub>2</sub> 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 <sub>1-x</sub> S <sub>x</sub>	
	• National training program of innovation and entrepreneurship for undergraduates: photothermal properties of ultrathin two-dimensional nanosheets of transition metal chalcogenides	

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TEACHING  
EXPERIENCE

- Teaching assistant for CE 6503 Principles of Environmental Engineering 2021 Fall
  - **Guest Lecturer:** Introduction to photocatalysts and associated applications 2021 Spring
  - 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
  - Journal of Controlled Release
  - Ecotoxicology and Environmental Safety
  - Environmental Nanotechnology, Monitoring & Management
  - Materials Letters
  - Chinese Chemical Letters
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CHARACTERIZATION  
SKILLS

- Transmission Electron Microscopy
- Scanning Electron Microscopy
- Confocal Laser Scanning Microscopy