

W. Andrew Jackson, PhD, FAAAS, BCEE, PE

Contact Information

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Education

Ph.D.	Engineering Science (Environmental Engineering)	1996	Louisiana State University, Baton Rouge
M.S.	Engineering Science (Environmental Engineering)	1993	Louisiana State University, Baton Rouge
B.S.	Biology	1990	Rhodes College, Memphis, TN

Professional Experience

Position Title	Year	Location
Chair	2022-	Dept. of Civil, Environmental and Construction Engineering, Texas Tech University
Presidents Excellence in Research Professor	2018-2024	
Environmental Program Lead	2014-2024	
Associate Chair	2012-2017	
Professor	2010-	
Graduate Advisor	2004-2010	
Associate Professor	2004-2010	
Assistant Professor	1998-2004	
Postdoctoral Scientist	1996-1998	Department of Civil Engineering, LSU
Research Associate	1995-1996	Department of Civil Engineering, LSU

Selected Professional Service

- Senior Associate Editor- *Air Water and Soil Pollution*. (2012-2018)
- Associate Editor-*Air Water and Soil Pollution*. (2004-2012)
- Editorial Board Member-*Air Water and Soil Pollution*. (2002-2004)
- Editorial Board- *Environmental Toxicology and Chemistry* (2004-2007 and 2010-2013)
- Association of Environmental Engineering and Science Professors (2003-present)
 - Co-Chair ENVE Program Leaders Committee 2019-2023
 - Board of Directors 2024-
- Institute of Aeronautics and Astronautics (2004-2012)
 - Life Sciences and Systems Technical Committee
 - Vice Chair; 2008-2009
 - Chair; 2009-2010
- International Conference on Environmental Systems
 - Steering Committee 2006-2015
 - Vice Chair 2012
 - Chair 2013

Honors

- 2023 AEESP Distinguished Service Award
- 2018 ICES Award (International Conference on Environmental Systems)
- Presidents Excellence in Research Professorship (2018)
- AAAS Fellow (2016)

- Bernie E. Rushing, Jr. Faculty Distinguished Research Award (2016) (**Highest University Research Award**)
- NASA Group Achievement Award (2016)
- Presidents Excellence in Teaching Award (2012)
- Provost's Integrated Scholar (2011)
- Department of Defense Strategic Environmental Development Program, Project of the Year in the Environmental Restoration Category (2007)
- *Environmental Science and Technology*, Environmental Science Paper of the Year (2005) (39:1569-1575)
- *Research Highlighted on Cover of the Journal Environ. Sci. & Tech.* three times (2005, 2006, 2007)

Selected Recent Research Grants Funded (PI Listed First, Funding Shown is Total Award)

Total Funding: 68 grants >\$ 25,000,000; 43 grants as PI \$ ~15,800,000

1. 2024-2027, EPA (1,600K) Jen Guelfo (**PI**), Todd Anderson, Evan Grey, Jordan Crago, **W. Andrew Jackson**. Evaluating and mitigating bioaccumulation of PFAS in plant, mammalian, and aquaculture systems.
2. 2023-2027, EPA (2,500K) **W. Andrew Jackson (PI)**, Todd Anderson, Balaji Rao, J. Coates, S. Ledford, N. Sturchio, K. Van Meter, J. Batista, N. Sturchio. Assessing Perchlorate Occurrence in Ambient Waters Following the Usage of Fireworks EPA-G2022-STAR-I1
3. 2021-2025, NASA, (940K) **W. Andrew Jackson (PI)**, E. Gray, L. Song. Biological Treatment for Wastewater Stabilization in Support of Manned Space Exploration: Partial Gravity Water Recovery System Architecture Studies
4. 2022-2024, SERDP (124K) Jennifer Guelfo and **Jackson, W.A.** Cometabolic Transformation and Treatment of PFAA Precursors in PFAS-Impacted Soils and Aquifer Sediments.

Total Publications 124 (Researcher ID B-8999-2009)

Citations [3,767; H Index=33, (Web of Science); Citations 6483; H Index 42 (Google Scholar)]

Selected Recent Journal Articles: (Peer Reviewed)

1. Yuk-Chun Chan, Lyatt Jaeglé, Pedro Campuzano-Jost, David C. Catling, Vasile I. Furdul, **W. Andrew Jackson**, Jose L. Jimenez, Dongwook Kim, Becky Alexander (2025) Global Model of Atmospheric Chlorate on Earth. *JGR Atmospheres*. 130:5 <https://doi.org/10.1029/2024JD042162>
2. Ghaem Hooshyari^s, and W. Andrew Jackson* (2025) Partial gravity habitation water recovery using hybrid life support systems: Membrane aerated biological reactor integrated with a distillation system for urine recycling. *J. of Env. Chem. Eng.* 13:117081 <https://doi.org/10.1016/j.jece.2025.117081>
3. Jessica A. LaFond^s, Rachael Rezes, Marzieh Shojaei, Todd Anderson, W. Andrew Jackson*, Jennifer L. Guelfo, Paul B. Hatzinger. (2024) Biotransformation of PFAA precursors by oxygenase-expressing bacteria in AFFF-impacted groundwater and in pure compound studies with 6:2 FTS and EtFOSE. *Env. Sci. Technol.* 58:31, 13820-13832 <https://doi.org/10.1021/acs.est.4c01931>
4. Sepideh Sadeghi^{*p} and William Andrew Jackson* (2024) Occurrence and Source of Phosphite (HPO₃²⁻) During Municipal Wastewater Treatments. *ES&T Water*. <https://doi.org/10.1021/acsestwater.4c00208>
5. Ghaem Hooshyari^s, Arpita Bose^s and W. Andrew Jackson* (2024) Integration of Full-Size Graywater Membrane-Aerated Biological Reactor with Reverse Osmosis System for Space-Based Wastewater Treatment. *Membranes* 2024, 14, 127. <https://doi.org/10.3390/membranes14060127>
6. Behnaz Jalalieh^s, M. Pourbavarsad^s, B. Cumbie, and **W. Andrew Jackson***. (2024) Improving carbon and nitrogen removal efficiency in high-strength nitrogen wastewater via two-stage nitrification-anammox process. *J. of Env. Chem. Eng.* (12) 112706. <https://doi.org/10.1016/j.jece.2024.112706>