

## **Professor Xinping Hu**

Texas A&M University-Corpus Christi  
Science & Engineering, Physical & Environmental Sciences  
Office: 104, Office Phone: (361) 825-3395, Email: xinping.hu@tamucc.edu

### **Education**

PhD, Old Dominion University, 2007.

BS, Peking University, 1997.

### **Professional Employment**

Assistant Professor, Texas A&M University - Corpus Christi. (September 2012 - Present).

Assistant Research Scientist, University of Georgia. (February 2012 - October 2012).

Post Doctoral Associate, University of Georgia. (January 2007 - January 2012).  
Paper writing, conduct lab and field experiments

Research Assistant, Institute of Oceanology, Chinese Academy of Sciences. (September 1997 - April 2000).  
Routine lab work, sample analysis, report writing

### **Professional Memberships**

Coastal & Estuarine Research Federation  
American Geophysical Union  
Association for the Sciences of Limnology and Oceanography

## **TEACHING**

### **Teaching Experience**

CHEM 1411, GENERAL CHEMISTRY I  
CHEM 4344, CHEMICAL OCEANOGRAPHY  
CHEM 4490, SPECIAL TOPICS: Aquatic Chemistry  
CHEM 5421, AQUATIC CHEMISTRY  
CHEM 5490, ADVANCE TOPICS: Chemical Oceanography  
CMSS 6102, SEMINAR IN EARTH SYSTEM SCIENC  
CMSS 6357, GLOBAL GEOCHEMICAL CYCLES-CHNG  
CMSS 6596, DIS: Estuarine Biogeochemistry  
CMSS 6996, RESEARCH  
CMSS 6998, DISSERTATION RESEARCH  
ESCI 5392, THESIS I: THESIS PROPOSAL  
ESCI 5393, THESIS II: THESIS RESEARCH  
ESCI 5394, THESIS III: THESIS SUBMISSION  
ESCI 5940, PROJECT RESEARCH

## **SCHOLARLY AND CREATIVE ACTIVITIES**

### **Publications**

## Refereed

### Journal Articles

Schoepf, V., Hu, X., Holcomb, M., Cai, W.-J., Li, Q., Wang, Y., Xu, H., Warner, M. E., Melman, T. F., Hoadley, K. D., Pettay, D. T., Matsui, Y., Baumann, J. H., Grotoli, A. G. (2017). Coral calcification under environmental change: A direct comparison of the alkalinity anomaly and buoyant weight technique. *Coral Reefs*, 36(13).  
<http://link.springer.com/article/10.1007/s00338-016-1507-z>

Wang, H., Sterba-Boatwright, B. D., Hu, X. (2016). A new statistical approach for interpreting oceanic fCO<sub>2</sub> record. *Marine Chemistry*, 183, 41-49.

Cai, W.-J., Ma, Y., Hopkinson, B. M., Grotoli, A. G., Warner, M. E., Ding, Q., Hu, X., Yuan, X., Schoepf, V., Xu, H., Han, C., Melman, T. F., Hoadley, K. D., Pettay, D. T., Matsui, Y., Baumann, J. H., Levas, S., Ye, Y., Wang, Y. (2016). Microelectrode characterization of coral daytime interior pH and carbonate chemistry. *Nature Communications*, 7, 11144.  
[www.nature.com/ncomms/2016/160404/ncomms11144/full/ncomms11144.html](http://www.nature.com/ncomms/2016/160404/ncomms11144/full/ncomms11144.html)

Xue, L., Cai, W.-J., Hu, X., Sabine, C. L., Jones, S., Sutton, A. J., Jiang, L.-Q., Reimer, J. J. (2016). Sea surface carbon dioxide at the Georgia time series site (2006-2007): air-sea flux and controlling processes. *Progress in Oceanography*, 140, 14-26.  
<http://www.sciencedirect.com/science/article/pii/S0079661115001986>

Hoadley, K. D., Pettay, D. T., Grotoli, A. G., Cai, W.-J., Melman, T. F., Schoepf, V., Hu, X., Li, Q., Xu, H., Wang, Y., Matsui, Y., Baumann, J. H., Warner, M. E. (2015). Physiological response to elevated temperature and pCO<sub>2</sub> varies across four Pacific coral species: Understanding the unique host+symbiont response. *Scientific Reports*, 5, DOI: 10.1038/srep18371. [www.nature.com/articles/srep18371](http://www.nature.com/articles/srep18371)

Xue, J., Cai, W.-J., Hu, X., Huang, W.-J., Lohrenz, S. E. (2015). Temporal variation and stoichiometric ratios of organic matter remineralization in bottom waters of the northern Gulf of Mexico during late spring and summer. *Journal of Geophysical Research - Oceans*, 120(2), 23. <http://onlinelibrary.wiley.com/doi/10.1002/2015JC011453/full>

Huang, W.-J., Cai, W.-J., Wang, Y., Hu, X., Chen, B., Lohrenz, S. E., Chakraborty, S., He, R., Brandes, J., Hopkinson, C. S. (2015). The response of inorganic carbon distributions and dynamics to upwelling favorable winds on the northern Gulf of Mexico during summer. *Continental Shelf Research*, 111 Part B, 211-222.  
<http://www.sciencedirect.com/science/article/pii/S0278434315300406>

Hu, X., Pollack, J., McCutcheon, M. R., Montagna, P. A., Ouyang, Z. (2015). Long-term alkalinity decrease and acidification of estuaries in Northwestern Gulf of Mexico. *Environmental Science & Technology*, 49(6), 3401-3409.  
[pubs.acs.org/doi/abs/10.1021/es505945p](http://pubs.acs.org/doi/abs/10.1021/es505945p)

Levas, S., Grotoli, A. G., Warner, M. E., Cai, W.-J., Bauer, J., Schoepf, V., Baumann, J. H., Matsui, Y., Gearing, C., Melman, T. F., Hoadley, K. D., Pettay, D. T., Hu, X., Li, Q., Xu, H., Wang, Y. (2015). Organic carbon fluxes mediated by corals at elevated pCO<sub>2</sub> and temperature. *MARINE ECOLOGY PROGRESS SERIES*, 519, 153-164. [www.int-res.com/articles/meps2014/519/m519p153.pdf](http://www.int-res.com/articles/meps2014/519/m519p153.pdf)

Rabalais, N. N., Cai, W.-J., Carstensen, J., Conley, D. J., Fry, B., Hu, X., Rosenberg, R., Slomp, C. P., Turner, R. Eugene, Voss, M., Wissel, B., Zhang, J. Eutrophication-driven

deoxygenation in the coastal ocean. *Oceanography*, 27, 172-183.  
[www.tos.org/oceanography/archive/27-1\\_rabalais.html](http://www.tos.org/oceanography/archive/27-1_rabalais.html)

Schoepf, V., Grotto, A. G., Warner, M. E., Cai, W.-J., Melman, T. F., Hoadley, K. D., Pettay, D. T., Hu, X., Li, Q., Xu, H., Wang, Y., Matsui, Y., Baumann, J. H. (2013). Coral energy reserves and calcification in a high-CO<sub>2</sub> world at two temperatures. *PLOS One*, 8(e75049), doi:10.1371/journal.pone.0075049.  
[www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0075049;jsessionid=4227036BFAA26303244CA4EB2155D878](http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0075049;jsessionid=4227036BFAA26303244CA4EB2155D878)

Hu, X., Cai, W.-J. (2013). Estuarine acidification and minimum buffer zone - a conceptual study. *Geophysical Research Letters*, 40(19), 5176-5181.  
[onlinelibrary.wiley.com/doi/10.1002/grl.51000/abstract](http://onlinelibrary.wiley.com/doi/10.1002/grl.51000/abstract)

Wang, Z. A., Wanninkhof, R., Cai, W.-J., Byrne, R. H., Hu, X., Peng, T.-H., Huang, W.-J. (2013). The marine inorganic carbon system along the Gulf of Mexico and Atlantic coasts of the United States: Insights from a transregional coastal carbon study. *Limnology and Oceanography*, 58, 325-342.

#### Technical Reports

Nuttall, M., Sterne, T. K., Eckert, R. J., Hu, X., Sinclair, J., Hickerson, E. L., Embersi, J. A., Johnston, M. J., Schmahl, G. P. (2017). *Stetson Bank Long-Term Monitoring: 2015 Annual Report*. National Oceanic and Atmospheric Administration, National Ocean Service, Office of National Marine Sanctuaries. [sanctuaries.noaa.gov/science/conservation/pdfs/stetson-bank-long-term-monitoring-2015.pdf](http://sanctuaries.noaa.gov/science/conservation/pdfs/stetson-bank-long-term-monitoring-2015.pdf)

Johnston, M. A., Eckert, R. J., Sterne, T. K., Nuttall, M., Hu, X., Embersi, J. A., Hickerson, E. L., Schmahl, G. P. (2016). *Long-Term Monitoring at East and West Flower Garden Banks: 2015 Annual Report*. National Oceanic and Atmospheric Administration, National Ocean Service, Office of National Marine Sanctuaries. [sanctuaries.noaa.gov/science/conservation/pdfs/16-02-monitoring.pdf](http://sanctuaries.noaa.gov/science/conservation/pdfs/16-02-monitoring.pdf)

#### Presentations

Scherer, A. E. (Author & Presenter), Bird, C., Hu, X., McCutcheon, M., Smee, D. L., "The cost and mechanism of an induced morphological defense in eastern oysters *Crassostrea virginica*," SICB Annual Meeting, Society of Integrative and Comparative Biology, New Orleans, LA. (2017).

Hu, X., "Estuarine Acidification: A Subtropical (Texas) Flavor," Webinar, Gulf of Mexico Coastal Acidification Network. (May 18, 2017).

Wang, H. (Author & Presenter), Hu, X., Wetz, M. S., Hayes, K., "Hydrologic control on subtropical estuarine CO<sub>2</sub> fluxes," 2017 Texas Bays and Estuaries Meeting, UTMSI/MANERR, Port Aransas, TX. (April 12, 2017).

Yao, H., Hu, X., "Hydrologic control on subtropical estuarine CO<sub>2</sub> fluxes," 2017 Texas Bays and Estuaries Meeting, UTMSI/MANERR, Port Aransas, TX. (April 12, 2017).

Yao, H., Hu, X., "Hydrologic control on subtropical estuarine CO<sub>2</sub> fluxes," North American Carbon Program/AmeriFlux PI meeting, NASA, North Bethesda, MD. (March 26, 2017).

Hu, X., "Dealkalization of Estuaries in the Northwestern Gulf of Mexico," NOAA Ocean Acidification PI Meeting, NOAA, Seattle, WA. (January 4, 2017).

Scherer, A. E. (Author & Presenter), Bird, C., Hu, X., McCutcheon, M., Smee, D. L., "Cost and mechanism of an induced morphological defense in the eastern oyster *Crassostrea virginica*," ESA Annual Meeting, Fort Lauderdale, FL. (2016).

Wetz, M. S., Cira, E. K., Hayes, K., Walker, L., Hu, X., Wang, H., "Hypoxia in a hypersaline, lagoonal South Texas estuary (Baffin Bay)," Restore America's Estuaries, New Orleans, LA. (2016).

Wu, K. (Author & Presenter), Hu, X., Wetz, M. S., Montagna, P. A., Liu, Z., "Using total dissolved amino acids to evaluate production and bioavailability of dissolved organic nitrogen in Lavaca and San Antonio Bays," Texas Bays & Estuaries Meeting, Port Aransas, Texas. (2016).

Wang, H. (Author & Presenter), Hayes, K. (Author), Wetz, M. S. (Author), Hu, X. (Author), "A study of organic matter that drives oxygen consumption in Baffin Bay, Texas," Gulf Estuarine Research Society 2016 Fall Meeting, Pensacola, FL. (November 3, 2016).

McCutcheon, M. R. (Author & Presenter), Hu, X. (Author), "Estimating air-sea CO<sub>2</sub> flux and long-term pCO<sub>2</sub> trends of the northwestern Gulf of Mexico estuaries," Gulf Estuarine Research Society 2016 Fall Meeting, Pensacola, FL. (November 3, 2016).

Hu, X. (Author & Presenter), Rabalais, N. N. (Author), Turner, R. E. (Author), "Eutrophication, storm, and benthic respiration: a case study on carbonate chemistry in the northern Gulf of Mexico," Gulf Estuarine Research Society 2016 Fall Meeting, Pensacola, FL. (November 3, 2016).

Wang, H. (Author & Presenter), Hayes, K. C. (Author), Wetz, M. S. (Author), Hu, X. (Author), "A stable isotope study on organic matter driving oxygen consumption in two south Texas estuaries," 12th Texas Bays and Estuaries Meeting, Port Aransas. (April 13, 2016).

Hayes, K. C. (Author & Presenter), Cira, E. K. (Author), Wang, H. (Author), Hu, X. (Author), Wetz, M. S., "Spatial and temporal distribution of organic carbon and nitrogen in a eutrophic estuary (Baffin Bay, TX)," 12th Texas Bays and Estuaries Meeting, Port Aransas. (April 13, 2016).

Trevino, M. R. (Author & Presenter), Murgulet, D. (Author), Hu, X. (Author), Douglas, A. (Author), Spalt, N. (Author), "Alkalinity dynamics in groundwater affected secondary bay in south Texas," 12th Texas Bays and Estuaries Meeting, Port Aransas. (April 12, 2016).

McCutcheon, M. R. (Author & Presenter), Hu, X. (Author & Presenter), "Long-term trends and spatial variability of pCO<sub>2</sub> in the Texas estuaries," 12th Texas Bays and Estuaries Meeting, Port Aransas. (April 12, 2016).

Hu, X. (Author & Presenter), Yao, H. (Author), Staryk, C. J. (Author), "Mysterious alkalinity loss during a drought year (2014) in the Mission-Aransas Estuary," 12th Texas Bays and Estuaries Meeting, Port Aransas. (April 12, 2016).

Yao, H. (Author & Presenter), Hu, X. (Author), "Seasonality of Carbonate Chemistry and CO<sub>2</sub> Flux in a Northwestern Gulf of Mexico Estuary," 2016 Ocean Sciences Meeting, New Orleans, LA. (February 26, 2016).

Reimer, J. (Author & Presenter), Cai, W.-J. (Author), Noakes, S. (Author), Hu, X. (Author), Chen, B. (Author), Wang, A. Z. (Author), Jiang, L. (Author), Salisbury, J. (Author), "pCO<sub>2</sub> time series ground truthing and internal consistency at the Gray's Reef mooring (NDBC-41008) in the South Atlantic Bight," 2016 Ocean Sciences Meeting, J. Reimer, W.-J. Cai, S. Noakes, X. Hu, B. Chen, A.Z. Wang, L. Jiang, and J. Salisbury., New Orleans, LA. (February 25, 2016).

Huang, W.-J. (Author & Presenter), Cai, W.-J. (Author), Wang, Y. (Author), Hu, X. (Author), "Spatial and Temporal Distributions of Carbonate Saturation State on the Mississippi River Dominated Northern Gulf of Mexico," 2016 Ocean Sciences Meeting, New Orleans, LA. (February 23, 2016).

Wang, Q. (Author & Presenter), Evans, M. (Author), Bacosa, H. (Author), Hu, X. (Author), Liu, Z. (Author), "The Fate of Crude Oil during Photooxidation under Natural Sunlight," 2016 Ocean Sciences Meeting, New Orleans, LA. (February 23, 2016).

Wang, H. (Author & Presenter), Hu, X. (Author), Rabalais, N. N. (Author), Cai, W.-J. (Author), "Comparison of fCO<sub>2</sub> trends in a river dominated and an ocean dominated ocean margins," 2016 Ocean Sciences Meeting, New Orleans, LA. (February 22, 2016).

McCutcheon, M. R. (Author & Presenter), Hu, X. (Author), "Exploring relationships of calcification rate with respiration rate and predator cue presence in juvenile *Crassostrea virginica*," 2016 Ocean Sciences Meeting, New Orleans, LA. (February 22, 2016).

Wang, H. (Author), Hu, X. (Author & Presenter), Rabalais, N. N. (Author), "What Drives Oxygen Consumption in the Northern Gulf of Mexico? – A Stable Isotope Perspective," 2016 Ocean Sciences Meeting, New Orleans, LA. (February 22, 2016).

Hu, X. (Author & Presenter), "Ocean Acidification – Myths, Facts, and a Case Study in a South Texas Estuary," Harte Seminar Series, TAMUCC, Corpus Christi. (February 19, 2016).

Wang, H. (Author), Hu, X. (Author & Presenter), Rabalais, N. N. (Author), "What Drives Oxygen Consumption in the Northern Gulf of Mexico? – A Stable Isotope Perspective," Gulf of Mexico Oil Spill & Ecosystem Science Conference, Tampa, FL. (February 3, 2016).

Hayes, K. (Author & Presenter), Cira, E. K., Hu, X., Wang, H., Wetz, M. S., "Spatial-temporal distribution of organic carbon and nitrogen in a eutrophic estuary (Baffin Bay, TX)," Coastal & Estuarine Research Federation Meeting, CERF, Portland, OR. (November 2015).

Hu, X. (Author & Presenter), Staryk, C. J. (Author), Yao, H. (Author), "Acidification of a Shallow Subtropical Estuary - Reduced Freshwater Inflow, Hypoxia, and Ocean Acidification," 23rd Biannual Conference of the Coastal and Estuarine Research Federation, Portland, OR. (November 8, 2015).

Wang, H. (Author), Hayes, K. (Author), Wetz, M. S., Hu, X. (Author & Presenter), "Acidification of a Shallow Subtropical Estuary - Reduced Freshwater Inflow, Hypoxia, and Ocean Acidification," 23rd Biannual Conference of the Coastal and Estuarine Research Federation, Portland, OR. (November 8, 2015).

Wang, H. (Author & Presenter), Sterba-Boatwright, B. D. (Author), Hu, X. (Author), "A new statistical approach interpreting or ocean fCO<sub>2</sub> record," Gordon Research Conference on Chemical Oceanography, Gordon Research Conferences, Holderness, NH. (July 26, 2015).

Yao, H. (Author & Presenter), Hu, X. (Author), "Seasonality of Carbonate Chemistry and CO<sub>2</sub> Flux in a Northwestern Gulf of Mexico estuary," Texas Bays and Estuaries Meeting, UTMSI, CBBEP, Port Aransas. (April 8, 2015).

Wang, H. (Author & Presenter), Hu, X. (Author), Cai, W.-J. (Author), Rabalais, N. N. (Author), Huang, W.-J. (Author), Xue, J. (Author), "Evidence of Cross-shelf Inorganic Carbon Export in the Northern Gulf of Mexico," Gulf of Mexico Oil Spill & Ecosystem Science Conference, Houston, TX. (February 16, 2015).

Hu, X. (Author & Presenter), Bacosa, H. (Author), Liu, Z. (Author), "Photo-oxidation of Louisiana Sweet Crude Oil in Gulf Waters - A Preliminary Result," Gulf of Mexico Oil Spill & Ecosystem Science Conference, Houston, TX. (February 16, 2015).

Hu, X. (Author & Presenter), "Long - term alkalinity decrease and acidification of estuaries in southwestern United States," Coastal CARbon Synthesis (CCARS) Community Workshop, NSF, NASA, Woods Hole, MA. (August 19, 2014).

Besonen, M. (Author & Presenter), Zimba, P. V. (Author), Hill, E. M. (Author), Tissot, P. (Author), McKay, M. C. (Author), Nicolau, B. (Author), Hu, X., Silliman, J. E., "Long-term Water Quality and Environmental Changes in Baffin Bay as Inferred from Sediment Cores—Preliminary Results," Texas Bays and Estuaries Meeting, University of Texas Marine Sciences Institute, Port Aransas, TX. (April 2014).

McCutcheon, M. (Author & Presenter), Hu, X. (Author), Pollack, J. (Author), Montagna, P. (Author), Ouyang, Z. (Author), "Alkalinity Trends in the Dewatering Estuaries of the Texas Coastal Bend.," Texas Bays and Estuaries Meeting, UTMSI, CBBEP, Port Aransas. (April 23, 2014).

Hu, X. (Author & Presenter), "EXPLORING ESTUARINE ACIDIFICATION AND MINIMUM BUFFER ZONE," Ocean Science Meeting, AGU, ASLO, TOS, Honolulu, HI. (February 23, 2014).

Wang, H. (Author & Presenter), Hu, X. (Author), Cai, W.-J. (Author), Rabalais, N. N. (Author), "Stable Isotope Composition of Remineralizing Organic Carbon In The Northern Gulf of Mexico Continental Shelf Sediments," Gulf of Mexico Oil Spill & Ecosystem Science Conference, Mobile, AL. (January 26, 2014).

Hu, X. (Author & Presenter), "Estuarine Acidification in the Context of Ocean Acidification a Theoretical Exploration," TAMU Galveston Marine Biology Seminar Series, Department of Marine Biology - TAMU Galveston, Galveston, TX. (November 21, 2013).

Hu, X. (Author & Presenter), "Estuarine Acidification in the Context of Ocean Acidification a Theoretical Exploration," UTMSI Technician Seminar Series, University of Texas Marine Science Institute, Port Aransas. (October 25, 2013).

Hu, X. (Author), Cai, W.-J. (Author), Rabalais, N. N. (Author), "Organic carbon remineralization stoichiometry - a useful indicator for detecting oil degradation in water column," Gulf of Mexico Oil Spill & Ecosystem Science Conference, New Orleans. (January 21, 2013).

## **Contracts, Grants and Sponsored Research**

### **Grant**

Wetz, Michael S (Co-Principal), Montagna, Paul A. (Principal), Hu, Xinping (Co-Principal), "Ocean Acidification: A hydrologic switch explains hypoxia and acidification in estuaries," Sponsored by NOAA, Federal, \$1,265,000.00. (September 2015 - August 2018).

Wetz, Michael S (Co-Principal), Montagna, Paul A. (Principal), Hu, Xinping (Co-Principal), "Ocean Acidification: A hydrologic switch explains hypoxia and acidification in estuaries," Sponsored by NOAA, Federal, \$1,265,000.00. (September 2015 - August 2018).

Montagna, Paul A. (Principal), Byrne, Robert (Co-Principal), Hu, Xinping (Co-Principal), Kim, Hae-Cheol (Co-Principal), Liu, Zhanfei (Co-Principal), Wetz, Michael S (Co-Principal), "The Hydrological Switch: A Novel Mechanism Explains Eutrophication and Acidification of Estuaries," Sponsored by NOAA, Federal, \$1,255,080.00. (September 1, 2015 - August 31, 2018).

Hu, Xinping, Murgulet, Dorina, "Evaluating Groundwater Exported Acidity in Copano Bay," Sponsored by Texas General Land Office, State, \$98,206.00. (October 1, 2016 - March 31, 2018).

Wetz, Michael S (Principal), Hu, Xinping (Co-Principal), "Identification of organic matter sources contributing to hypoxia formation in two eutrophic South Texas estuaries: relationships to watershed land use practices," Sponsored by Texas Sea Grant, Federal, \$273,314.00. (January 2014 - September 2017).

Wetz, Michael S (Principal), Hu, Xinping (Co-Principal), "Water quality monitoring of mid-coast estuaries," Sponsored by Texas Water Development Board, State, \$19,500.00. (January 2016 - July 2017).

Hu, Xinping, "Ocean and Coastal Acidification Monitoring," Sponsored by Coastal Bend Bays and Estuaries Program, Local, \$65,000.00. (November 1, 2015 - October 31, 2016).

Hu, Xinping (Principal), "Ocean and Estuarine Acidification Monitoring," Sponsored by Coastal Bays and Estuaries Program, Local, \$65,000.00. (November 2015 - October 2016).

Hu, Xinping (Co-Principal), "Dynamics of Dissolved Inorganic Carbon and Dissolved Oxygen Following Natural or Man-made Petroleum Carbon Release into Marine Environments," Sponsored by Gulf Research Initiative, Other, \$288,441.00. (December 1, 2012 - August 31, 2016).

Wetz, Michael S, Hu, Xinping, "Water quality monitoring of mid-coast estuaries," Sponsored by Texas Water Development Board, State, \$20,000.00. (July 2014 - June 2015).

Besonen, Mark (Supporting), Cifuentes, Luis (Principal), Hu, Xinping (Co-Principal), Stunz, Gregory W. (Co-Principal), Wetz, Michael S (Co-Principal), Naehr, Thomas H. (Co-Principal), Fahlman, Andreas (Supporting), Montagna, Paul A. (Supporting), Pollack, Jennifer (Supporting), Hogan, James D (Supporting), Zimba, Paul V. (Supporting), Coffin, Richard (Supporting), "CKD--FUNDED--MRI: Acquisition of Elemental Stable Isotope Chemistry (ESIC) Mass Spectrometer," Sponsored by U.S. National Science Foundation, Federal, \$419,259.00. (October 1, 2013 - September 30, 2014).

Stunz, Gregory W. (Co-Principal), Cifuentes, Luis (Principal), Wetz, Michael S (Co-Principal), Hu, Xinping (Co-Principal), "MRI: Acquisition of Elemental Stable Isotope Chemistry (ESIC) Mass Spectrometer," Sponsored by NSF - Major Research Instrumentation, \$419,259.00. (October 1, 2013 - September 30, 2014).

Naehr, Thomas H. (Co-Principal), Cifuentes, Luis (Principal), Stunz, Gregory W. (Co-Principal), Hu, Xinping (Co-Principal), Wetz, Michael S (Co-Principal), "Acquisition of Elemental Stable Isotope Chemistry (ESIC) Mass Spectrometer," Sponsored by NSF OCE/MRI, Federal, \$419,259.00. (September 1, 2013 - August 31, 2014).

## Sponsored Research

Hu, Xinping, "Alkalinity Decline and Acidification in Dewatering Estuaries," Texas A&M University-Corpus Christi, \$20,000.00. (September 1, 2014 - August 31, 2015).

Hu, Xinping (Principal), "Estuarine Minimum Buffer Zone - a Proof of Concept," Sponsored by TAMUCC Research Enhancement Fund, Texas A&M University-Corpus Christi, \$5,000.00. (September 1, 2013 - August 31, 2014).

## Scholarly and Creative Awards and Honors

NSF CAREER Award, National Science Foundation. (2017).  
Outstanding Ph.D. Student, Department of Ocean, Earth and Atmospheric Sciences. (2007).

## SERVICE

### Department

Committee Member, Marine Chemistry Faculty Search Committee. (November 2014 - October 2015).  
Committee Chair, Environmental Chemistry Faculty Search Committee. (November 2014 - May 2015).  
Committee Member, Environmental Science Non-Tenure Track Search Committee. (May 2014 - August 2014).  
Committee Chair, Chemistry Faculty Search Committee. (September 2013 - March 2014).

### College

Committee Member, College of Science and Engineering - Strategic Plan Committee. (September 2014 - Present).  
Committee Member, Chair Search Committee - Physical and Environmental Sciences. (October 2012 - April 2013).  
Committee Member, Faculty Search Committee for Microbiologist in Life Sciences Department. (September 2012 - March 2013).

### University

Committee Member, Environmental Council. (October 2016 - Present).  
Committee Member, Graduate Council. (September 2016 - Present).

### Professional

Reviewer, Grant Proposal, National Science Foundation. (December 2016).  
Reviewer, Journal Article, Global Geochemical Cycles. (December 2016).  
Reviewer, Grant Proposal, New York Sea Grant. (November 2016).  
Reviewer, Journal Article, Journal of Geophysical Research - Oceans. (October 2016).  
Reviewer, Grant Proposal, National Science Foundation. (September 2016).  
Reviewer, Journal Article, Royal Society Open Science. (July 2016 - August 2016).  
Reviewer, Journal Article, Estuaries and Coasts. (June 2016).  
Reviewer, Journal Article, Environmental Science and Pollution Research. (May 2016).  
Reviewer, Journal Article, Geochimica et Cosmochimica Acta. (April 2016).  
Reviewer, Journal Article, Limnology and Oceanography. (April 2016).  
Reviewer, Grant Proposal, National Science Foundation. (April 2016).  
Reviewer, Journal Article, Marine Chemistry. (April 2016).  
Reviewer, Journal Article, Environmental Science and Pollution Research. (March 2016).  
Reviewer, Journal Article, Limnology and Oceanography. (February 2016).  
Reviewer, Grant Proposal, New Hampshire Sea Grant. (February 2016).  
Reviewer, Journal Article, Geophysical Research Letters. (January 2016).  
Reviewer, Journal Article, Scientific Reports. (December 2015).  
Reviewer, Journal Article, Deep Sea Research I. (November 2015).  
Reviewer, Journal Article, Chemical Geology. (October 2015).  
Reviewer, Journal Article, Estuaries and Coasts. (October 2015).  
Reviewer, Journal Article, Chemical Geology. (August 2015).

Reviewer, Journal Article, Journal of Geophysical Research - Biogeosciences. (July 2015).  
Reviewer, Journal Article, Chemical Geology. (June 2015).  
Reviewer, Journal Article, Marine Chemistry. (April 2015).  
Reviewer, Journal Article, Journal of Marine Systems. (March 2015).  
Reviewer, Journal Article, Journal of Geophysical Research - Oceans. (February 2015).  
Reviewer, Journal Article, Palaeogeography, Palaeoclimatology, Palaeoecology. (December 2014 - January 2015).  
Reviewer, Journal Article, Marine Pollution Bulletin. (September 2014 - October 2014).  
Reviewer, Journal Article, Environmental Science and Technology. (September 2014 - October 2014).  
Reviewer, Journal Article, Journal of Marine Systems. (August 2014).  
Reviewer, Journal Article, Environmental Science and Technology. (July 2014).  
Reviewer, Journal Article, Deep Sea Research I. (June 2014).  
Reviewer, Journal Article, Scientific Reports. (April 2014).  
Reviewer, Grant Proposal, National Science Foundation. (March 2014).  
Reviewer, Journal Article, Deep Sea Research II. (December 2013 - January 2014).  
Reviewer, Grant Proposal, Fonds de recherche du Québec – Nature et technologies. (November 2013 - January 2014).  
Reviewer, Journal Article, Geophysical Research Letters. (December 2013).  
Reviewer, Journal Article, The ISME Journal. (November 2013 - December 2013).  
Reviewer, Journal Article, Estuarine, Coastal and Shelf Science. (August 2013 - September 2013).  
Reviewer, Journal Article, Aquatic Geochemistry. (July 2013 - August 2013).  
Reviewer, Journal Article, Biogeoscience. (April 2013 - June 2013).  
Reviewer, Journal Article, Deep Sea Research II. (March 2013).  
Reviewer, Journal Article, Aquatic Geochemistry. (February 2013).  
Reviewer, Journal Article, Journal of Geophysical Research - Oceans. (December 2012).  
Reviewer, Journal Article, Rapid Communications in Mass Spectrometry. (November 2012).  
Reviewer, Journal Article, Geochimica et Cosmochimica Acta. (October 2012).

## **Public**

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