

PERSONAL DATA

Name: Angel A. Martí, Ph.D.
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PROFESSIONAL EXPERIENCE

July 2023 – Present Chairman, *Department of Chemistry, Rice University, TX*
July 2023 – Present Faculty Director, Rice Emerging Scholars Program (RESP)
July 2020 – Present Professor of Chemistry, Bioengineering, and Materials Science & Nanoengineering, *Rice University, Houston, TX*
July 2015 – June 2020 Associate Professor of Chemistry, Bioengineering, and Materials Science & Nanoengineering, *Rice University, Houston, TX*
July 2008 – June 2015 Assistant Professor of Chemistry, Bioengineering, and Materials Science & Nanoengineering *Rice University, Houston, TX*

EDUCATION

August 2004 – June 2008 Post-Doctoral Research Scientist, Columbia University, New York, NY, Advisor: Nicholas J. Turro
August 1999 – May 2004 Ph.D., Inorganic Chemistry, University of Puerto Rico, Río Piedras Campus, Advisor: Prof. Jorge L. Colón
August 1994 – May 1999 BS, Chemistry, University of Puerto Rico, Río Piedras, 1999

TEACHING EXPERIENCE

August 2008 – Present Professor, Rice University (tenure-2015)
August 2000 – Present Workshop speaker, PR LS-AMP
August 2002 – August 2004 Workshop speaker, Puerto Rico Statewide Systemic Initiative (PRSSI) and Puerto Rico-2000 Institute (PR-2000)
August 2000 – May 2002 Science consultant, University of Puerto Rico (NSF GK-12 fellow) and Department of Education

AWARDS AND HONORS:

- 2025: Fellow, American Association for the Advancement of Science (AAAS)
- 2025: Robert Holland Jr. Award for Excellence in Research and Leadership, Research Corporation for Science Advancement
- 2024: Fellow of the American Chemical Society Fellow (ACS Fellow)
- 2024: Outstanding Faculty Service Award from the Wiess School of Natural Sciences
- 2024 – present: Editorial Advisory Board, Journal of the American Chemical Society (JACS)
- 2024 – 2026: Chair, American Chemical Society, Division of Inorganic Chemistry
- 2022: ACS SWRM Stanley Israel Award for Advancing Diversity in the Chemical Sciences
- 2021-2023: Secretary, American Chemical Society, Division of Inorganic Chemistry
- 2020: Edward S. and Fofo Lewis Award in Chemistry, Rice University
- 2020: Editorial Advisory Board, Journal of Photochemistry and Photobiology, Elsevier
- 2020: Fellow of the Royal Society of Chemistry (FRSC)
- 2020 – present: Advisory Board, Puerto Rico Space Partnership for Research and Training
- 2019: Presidential Mentoring Award, Rice University
- 2018: Advisory Board, Inter-American Photochemical Society
- 2015: Korea Lasertronix Young Chemists Lecture, 45th IUPAC World Congress
- 2014: Proctor & Gamble Lecture; UCLA Organization for Cultural Diversity in Science, UCLA
- 2014: American Society for Photobiology New Investigator Award

- 2014: Hamill Innovation Award, Rice Institute of Biosciences and Bioengineering
- 2013: Inter-American Photochemical Society Young Investigator Award
- 2013: Diversity Students Hosted-Seminar Speaker, Texas A&M, College Station
- 2002-2004: NIH/RISE Research Fellowship
- 2000-2002: NSF GK-12 Graduate Fellowship
- 1996-1999: Alliance for Minority Participation (AMP) Excellence Award
- 1996-1999: NIH/SUBE Research Fellowship

BIOGRAPHY

Angel A. Martí obtained his Ph.D in Chemistry from the University of Puerto Rico, Río Piedras, under the supervision of Prof. Jorge Colón. Following his postdoctoral training with Prof. Nicholas Turro at Columbia University in New York, he joined the Department of Chemistry at Rice University in Houston in 2008. At Rice, he has been using photochemistry to study a variety of topics, including protein aggregation, cellular temperature, and nanomaterials. He is the author of more than 125 publications and has received a variety of awards, including the Inter-American Photochemical Society Young Investigator Award in 2013, the New Investigator Award from the American Society for Photobiology in 2014, the Rice University Presidential Mentoring Award in 2019, awarded the 2022 ACS SWRM Stan Israel Award for Advancing Diversity in the Chemical Sciences and in 2024 the Outstanding Faculty Service Award from the Wiess School of Natural Sciences. Angel was elected Fellow of the Royal Society of Chemistry in 2020, Fellow of the American Chemical Society in 2024, and Fellow of the American Association for the Advancement of Sciences (AAAS) in 2025. He is the current Chair of the American Chemical Society Division of Inorganic Chemistry and the Faculty Director of the Rice Emerging Scholars Program (RESP).

SERVICE

Editorial Service:

- Editorial Advisory Board, Journal of American Chemical Society, ACS (Jan 2024 – present)
- Editorial Advisory Board, Journal of Photochemistry and Photobiology, Elsevier, (Dec 2020 – present)
- Guest Editor: J. of Materials Research, Special Issue on Boron Nitride Nanotubes (Fall 2022)
- Guest Editor: J. of Photochem. Photobiol., Special Issue on Inorganic Photochemistry (Spring 2021)
- Guest Editor: *Dalton Transaction*, Special Issue Honoring Abraham Clearfield (Spring 2020)

Other Professional Service:

- Advisory Board, Puerto Rico Space Partnership for Research Innovation and Training, (2020-present)
- Advisory Board, Interamerican Photochemical Society Advisory Board (2018-present)
- Referee of papers for the Journal of the American Chemical Society, Inorganic Chemistry, Langmuir, Chemical Communications, Carbon, ACS Nano, Nanoscale, PNAS, and many others
- Ad-hoc reviewer: National Institute of Health (DMBP study section, June 2024 and March 2025), National Science Foundation (various programs), and ACS PRF

University:

- Faculty Director – Rice Emerging Scholars Program (RESP), 2022-present
- Member, Advisory Board, Smalley-Curl Institute, 2022 - present
- Member, Promotion and Tenure Committee, 2022 - 2023
- Chair, School of Natural Sciences Task Force on Diversity, Equity and Inclusion (2020-2022)
- Academic Senator, Faculty Senate, 2017-2023
- Member, Steering Committee Rice Graduate Education for Minorities, 2016-present
- Member, Standing University Committee - Library Committee, 2020-2023
- Member, Standing University Committee - Examinations and Standing, 2017-2020
- Member, Patents Committee, 2015-2017

Department:

- Chairman, Department of Chemistry, 2023 - present
- PI of Chemistry REU Site (RLEAD), 2022-2025
- Chair: Graduate Recruiting Committee, 2017-2022
- Chair: Graduate Admissions Committee, 2017-2022
- Major Track Adviser (Inorganic Chemistry), 2013-present
- Chemistry Graduate Studies Committee, 2015-2017
- Chemistry Seminars Committee, 2008-2019

Service to the Chemistry Community and Outreach:**American Chemical Society**

- Chair, ACS Division of Inorganic Chemistry – 2024 (Chair-Elect), 2025 (Chair), 2026 (Past-Chair): Coordinate activities for the division of Inorganic Chemistry, provide leadership and direction to the field, lead the executive committee meeting that decides on symposia, funding, and activities, represent the division of inorganic chemistry at ACS and coordinate activities with other societies around the world.
- Secretary, ACS Division of Inorganic Chemistry – 2022 – 2024: Communicate with the DIC membership, coordinate Executive Meetings twice a year, organize the division's election, prepare the briefing, organize activities such as the 65th Anniversary of the division and strategic planning meeting, and order and deliver awards for the division.
- *Organizer, Celebrating Diversity in Inorganic Chemistry symposium at the ACS Spring National Meeting in New Orleans (2024).*
- Panelist, "The in's and out's of getting into graduate school" at the ACS Fall National Meeting in San Francisco (2023)
- ACS-GHS Awards Committee (2024)
- ACS National Awards Committee (2023)
- ACS National Awards, Committee Chair (2024), the specific committee cannot be disclosed
- ACS SWRM Awards Committee (2023-24)
- Organizer, Photoinduced Processes in Macroscopic, Supramolecular and Nanoscale, SERMACS, San Juan, PR (2022)
- Co-Organizer: ACS Colloids and Surface Science, Nanomaterials & Advanced Manufacturing symposium, (2020)
- Co-Organizer, Bioinorganic Symposium, ACS, SWRM, Galveston, TX (2016)

Disadvantaged Students

- Rice Emerging Scholars Program, 2022 – present: Co-director of RESP, a program established to guide students from disadvantaged backgrounds to succeed in STEM. A variety of activities are coordinated, including a summer immersion program and mentorship during the school year. This program is supported by philanthropy efforts and an NSF SSTEM grant.
- Chair for DEI, Wiess School of Natural Sciences, 2020 – present: Lead the committee to address Diversity, Equity, Inclusion, and Respect at the School of Natural Sciences. Worked with stakeholders from across the school (students, faculty, and staff) to assess the school environment and to develop activities to promote DEI.
- Founder of Chemistry Graduate Education for Minorities (ChemGEM), 2017-present: This program serves URM graduate students, and sponsors many activities to promote and retain URM students such as diversity seminars, travel awards, conferences recruiting, and mentoring.
- Faculty mentor Rice Graduate Education for Minorities (RGEM), 2015-present and Empowering

Leadership Alliance (ELA), 2011-2014: one-on-one meetings with underrepresented minority undergraduate and graduate students every semester from a variety of majors.

Houston and the Nation

- Principal Investigator NSF REU Research and Leadership Enabling Advanced Discoveries (RLEAD) in Chemical Nanoscience, 2022 – present: This program was created to improve opportunities for advanced research for college students, particularly from underrepresented and underprivileged backgrounds particularly from Houston Universities and Community Colleges (other than Rice) but also around the nation.
- Organizer, *International Conference in Coordination Chemistry (ICCC), Bioinorganic Symposium (2024)*.
- Co-Organizer: *Interamerican Chemical Society Winter Conference in Sarasota, Florida (2017)*.
- LatinXChem Judge: Judge for graduate students and postdoc posters for the LatinXChem Twitter Conference 2022 in the #LXChemInorg category (November 28, 2022).
- Gulf-Coast Undergraduate Research Symposium (GCURS), 2016 – 2021: Organize the Chemistry program for GCURS, one of the largest sections of the symposium. Established contact at many universities across Texas, the US, and South America to bring a diverse group of presenters. Chemistry GCURS 2021 had more than 30% of participants from underrepresented groups.
- TV interviews in Spanish (Univision) about different science topics. (2013-present).
- Mentoring talks, 2007-present: to URM undergraduate and graduate students at different universities across the United States, including Rice University, UT El Paso, University of North Texas, University of Puerto Rico (UPR)-Río Piedras, UPR-Humacao and University of Puerto Rico-Mayagüez regarding graduate school application, research, scientific trajectory.
- Guest lecturer since 2018 for RURS class on Admission Processes for Graduate School.
- Workshops and activities, 1999 – present: Development of hands-on activities (>50) on science content for High-School teachers, K-12 students, and college students. Also, hundreds of workshop hours were offered to K-12 students, college students, and school teachers of all levels.

PUBLICATIONS (* denotes corresponding author)

125. Kumar, P.; Zhang, H.; Yohannes, A.; Wang, J.; Zeraati, A. S.; Soumyabrata, R.; Wang, X.; Kannimuthu, K.; Askar, A. M.; Miller, K. A.; Ling, K.; Adnan, M.; Hung, S.-F.; Ma, J.-J.; Huang, W.-H.; Trivedi, D.; Molina, M.; Zhao, H.; Martí, A. A.; Leontownich, A. E. G.; Shimizu, G.; Sinton, D.; Adachi, M. M.; Wu, Y. A.; Ajayan, P. M.; Siahrostami, S.; Hu, J.; Kibria, M. G. Isolated iridium oxide sites on modified carbon nitride for photoreforming of plastic derivatives, *Nature Commun.* **2025**, DOI: 10.1038/s41467-025-57999-w.
124. Chen, Y.; Ya'akobi, A.-M.; Nguyen, T.-V.; Kao, S.-C.; West, J. G.; Biswal, S.-L.; Talmon, Y.; Martí, A. A.* Supramolecular Self-Assembly of Metal Complex Surfactants (MeCS) into Micellar Nanoscale Reactors in Aqueous Solution, *Chem. Sci.* **2025**, 16, 3440-3446.
123. Bian, K.-J.; Nemoto Jr, D.; Chen, Y.; Lu, Y.-C.; Kao, S.-C.; Chen, X.; Martí, A. A.; West, J. G. Anti-Markovnikov Hydro- and Deuteriochlorination of Unsaturated Hydrocarbons, *Nature Synth.* **2024**, DOI: 10.1038/s44160-024-00698-z.
122. Khalil, S.; Alazmi, A.; Gao, G.; Martínez-Jiménez, C.; Saxena, R.; Li, J.; Alhashmi, S.; Martí, A. A.; Verduzco, R. Continuous Synthesis and Processing of Covalent Organic Frameworks in a Flow Reactor, *ACS Appl. Mater. Interfaces* **2024**, 16, 55206-55217.
121. Li, B.; Ayala-Orozco, C.; Si, T.; Zhou, L.; Wang, Z.; Martí, A. A.; Tour, J. M. Divergent Syntheses of Near-Infrared Light Activated Molecular Jackhammers for Cancer Cells Eradication, *Adv. Sci.* **2024**, 11, 2405965.
120. Cheng, Y.; Chen, J.; Deng, B.; Chen, W.; Silva, K. J.; Eddy, L.; Wu, G.; Chen, Y.; Li, B.; Kittrell, C.;

- Xu, S.; Si, T.; Martí, A. A.; Yakobson, B. I.; Zhao, Y.; Tour, J. M. Flash upcycling of waste glass fiber-reinforced plastics to silicon carbide, *Nature Sust.* **2024**, *7*, 452-462.
119. Umezaki, U.; Smith McWilliams, A. D.; Tang, Z.; He, Z. M. S.; Siqueira, I. R.; Corr, S. J.; Ryu, H.; Kolomeisky, A.*; Pasquali, M.*; Martí, A. A.* Two-Dimensional Diffusion of Hexagonal Boron Nitride Nanosheets in Aqueous Solution, *ACS Nano* **2024**, *18*, 2446-2454. (Inner Cover)
118. Pinchún, B.; Nuñez, C.; Arancibia, V.; Martí, A. A.; Aguirre, M. J.; Pizarro, J.; Segura, R.; Flores, E. Enhanced Voltammetric Sensing Platform Based on Gold Nanorods and Electrochemically Reduced Graphene Oxide for As(III) Determination in Seafood Samples, *J. Appl. Electrochem.* **2024**, *54*, 1595-1606.
117. Shumard, K. R.; Acapulco Jr, J. A. I.; Pasquali, M.; Martí, A. A.* Reactivity of Boron Nitride Nanomaterials with Phosphoric Acid and its Application in the Purification of Boron Nitride Nanotubes, *Chem. Mater.* **2024**, *36*, 1, 157-166 (Inner Cover).
116. Martínez-Jiménez, C.; Chow, A.; Smith McWilliams, A. D.; Martí, A. A.* Hexagonal Boron Nitride Exfoliation and Dispersion, *Nanoscale* **2023**, *15*, 16836-16873.
115. Maldonado, T.; Flores, E.; Ferraudi, G.; Martí, A. A.; Mascayano, C.; Godoy, F.; Gómez, A. Kinetic study of the azo – Hydrazone photoinduced mechanism in complexes with a -Re(CO)₃X core by Flash Photolysis, *J. Photochem. Photobiol. A.* **2023**, *442*, 114802.
114. Navarrete, E.; Morales, P.; Muñoz-Osses, M.; Vásquez-Martínez, Y.; Godoy, F.; Maldonado, T.; Martí, A. A.; Flores, E.; Mascayano, C. Evaluating the inhibitory activity of ferrocenyl Schiff bases derivatives on 5-lipoxygenase: Computational and biological studies, *J. Inorg. Biochem.* **2023**, *245*, 112233.
113. Shih-Chieh, K.; Bian, K.-J.; Chen, X.-W.; Chen, Y.; Martí, A. A.; West, J. G. Photochemical Iron-Catalyzed Decarboxylative Azidation via the Merger of Ligand-to-Metal Charge Transfer and Radical-Ligand-Transfer Catalysis, *Chem. Cat.* **2023**, *3*, 100603.
112. van Venrooy, A.; Wyderka, A.; García-López, V.; Alemany, L.; Martí A. A.*; Tour, J.* Probing the Rotary Cycle of Amine Substituted Molecular Motors, *J. Org. Chem.* **2023**, *88*, 2, 762-770.
111. Jiang, B.; Umezaki, U.; Augustine, A.; Jayasinghe-Arachchige, V. M.; Serafim, L. F.; He, Z. M. S., Wyss, K. M., Prabhakar, R.; Martí, A. A.*, Deconvoluting Binding Sites in Amyloid Nanofibrils Using Time-Resolved Spectroscopy, *Chem. Sci.* **2023**, *14*, 1072-1081 (Journal Cover).
110. Flores, E.; Navarro, F.; Segura, R.; Godoy, F.; Martí, A. A.; Mascayano, C.; Aguirre, M. J.; Pizarro, J. Fast and Simple Preparation of a Sensor Based on Electrochemically Reduced Graphene Oxide (rGO) for the Determination of Zopiclone in Pharmaceutical Dosage by Square Wave Adsorptive Stripping Voltammetry (SWAdSV), *Electroanal.* **2023**, *3*, e202200357.
109. Jakubinek, M. B.; Kim, K. S.; Kim, M. J.; Martí, A. A.; Pasquali, M. Recent Advances and Perspective on Boron Nitride Nanotubes: from Synthesis to Applications, *J. Mater. Res.* **2022**, *37*, 4403–4418.
108. Smith McWilliams, A. D.; Martínez-Jiménez, C.; Shumard, K. R.; Pasquali, M.; Martí, A. A.* Dispersion and Individualization of Boron Nitride Nanotubes, *J. Mater. Res.* **2022**, *37*, 4459–4482.
107. Ginestra, C. J. S.; Martínez-Jiménez, C.; Matayaho Ya'akobi, A.; Dewey, O. S.; Smith McWilliams, A. S.; Headrick, R. J.; Acapulco, J. A.; Scammell, L. R.; Smith, M. W.; Kosynkin, D. V.; Marincel, D. V.; Park, C.; Chu, S. -H. Talmon, Y.; Martí, A. A.*; Pasquali, M.* Liquid Crystals of Neat Boron Nitride Nanotubes and their Assembly into Ordered Macroscopic Materials, *Nature Commun.* **2022**, *13*, 3136.
106. Ling, K.; Ogle, M. M.; Flores, E.; Godoy, F.; Martí, A. A.* Exploring the Photophysical Properties of UiO-67 MOF Doped with Rhenium Carbonyl Complexes, *J. Photochem. Photobiol.* **2022**, *11*, 100127.
105. Silva Lima, M. V.; Cavalieri Marchi, R.; Riverin Cardoso, C.; Cook, N. P.; Moreira Pazin, W.; Kock, F. V. C.; Venâncio, T.; Martí, A. A.*; Carlos, R. M.* Bidentate Coordination of 2Apy in cis-[Ru(phen)₂(2Apy)]²⁺ Aiming at Photobiological Studies, *Eur. J. Inorg. Chem.* **2022**, e202101015.

104. Martí, A. A.* Editorial: Inorganic Photochemistry at the Molecular, Nano- and Meso-scale, *J. Photochem. Photobiol.* **2022**, *10*, 100117.
103. Liendo, F.; Paz de la Vega, A.; Aguirre, M. J.; Godoy, F.; Martí, A. A.; Flores, E.; Pizarro, J.; Segura, R. A Simple Graphene Modified Electrode for the Determination of Antimony(III) in Edible Plants and Beverage, *Food Chem.* **2022**, *367*, 130676.
102. Jiang, B.; Martí, A. A.* Probing Amyloid Nanostructures using Photoluminescent Metal Complexes, *Eur. J. Inorg. Chem.* **2021**, *43*, 4408-4424.
101. Nishimura, S.; Narayan, N.; Sahin, O.; Smith McWilliams, A. D.; Selpekar, D.; Wang, Z.; Joyner, J.; Martí, A. A.; Vajtai, R.; Meiyazhagan, A.; Ajayan, P. M. Luminescent Hybrid Biocomposite Films Derived from Animal Skin Waste, *Carbon Trends*, **2021**, *4*, 100059.
100. Smith McWilliams, A. D.; Martinez-Jimenez, C.; Matatyaho-Ya'akobi, A.; Ginestra, C. J.; Talmon, Y.; Pasquali, M.; Martí, A. A.* Understanding the Exfoliation and Dispersion of Hexagonal Boron Nitride by Surfactants, *ACS Appl. Nano Mater.* **2021**, *4*, 142-151.
99. Flores, E. M.; Muñoz-Osses, M.; Torrent, C.; Vázquez-Martínez, Y.; Gómez, A. A.; Cortez-San Martín, M.; Vega, A.; Martí, A. A.; Godoy, F. J.; Mascayano, C. L. Design, Synthesis and Biological Evaluation of Ferrocenyl Thiazole and Thiazolo[5,4d]thiazole Catechols as Inhibitors of 5-hLOX and as Antibacterials Against *Staphylococcus Aureus*. Structural Relationship and Computational Studies, *Organometallics* **2020**, *39*, *14*, 2672–2681.
98. Colón, J. L.*; Martí, A. A.*; Sun L.* A Life in Crystallography, *J. Chem. Soc. Dalton Trans.* **2020**, *49*, 3914-3916.
97. Smith McWilliams, A. D.; Tang, Z.; Ergülen, S.; de los Reyes, C. A.; Martí, A. A.*; Pasquali, M.* Real-Time Visualization and Dynamics Boron Nitride Nanotubes, *J. Phys. Chem. B* **2020**, *124*, 4185-4192.
96. Yadav, R. M.; Kumar, R.; Aliyan, A.; Dobal, P. S.; Biradar, S.; Vajtai, R.; Singh, D. P.; Martí, A. A.*; Ajayan, P. M.* Facile Synthesis of Highly Fluorescent Free-Standing Films Comprising of Graphitic Carbon Nitride (g-C₃N₄) Nanolayers, *New J. Chem.* **2020**, *44*, 2644-2651.
95. Ogle, M. M.; Smith McWilliams, A. D.; Jiang, B.; Martí, A. A.* Latest Trends in Temperature Sensing by Molecular Probes, *ChemPhotoChem* **2020**, *4*, 255-270.
94. Smith McWilliams, A. D.; Ergülen, S.; Ogle, M. M.; de los Reyes, C. A.; Pasquali, M.; Martí, A. A.* Fluorescent Surfactants from Common Dyes – Rhodamine B and Eosin Y, *Pure Appl. Chem.* **2020**, *92*, 265-274.
93. Aliyan, A.; Cook, N. P.; Martí, A. A.* Interrogating Amyloid Aggregates using Fluorescent Probes, *Chem. Rev.* **2019**, *119*, 11819-11856.
92. Jiang, B.; Aliyan, A.; Cook, N. P.; Augustine, A.; Bhak, G.; Maldonado, R.; Smith McWilliams, A.; Flores, E.; Mendez Dinamarca, N. G.; Godoy, F.; Montenegro, J.; Gonzalez-Moreno, I.; Martí, A. A.* Monitoring the Formation of Amyloid Oligomers Using Photoluminescence Anisotropy, *J. Am. Chem. Soc.* **2019**, *141*, 15605-15610.
91. Ogle, M. M.; Smith McWilliams, A. D.; Ware, M. J.; Curley, S.; Corr, S.; Martí, A. A.* Sensing Temperature in vitro and in Cells Using a BODIPY Molecular Probe, *J. Phys. Chem. B* **2019**, *123*, 7282-7289.
90. Liang, J.; Han, X.; Yang, J.; Zhang, B.; Fang, Q.; Zhang, J.; Ai, Q.; Ogle, M. M.; Terlier, T.; Martí, A. A.; Lou, J. Defect Engineering Enabled High-Efficiency All-Inorganic Perovskite Solar Cells, *Adv. Mater.* **2019**, 1903448.
89. Han, X.; Liang, J.; Yang, J.; Soni, K.; Fang, Q.; Wang, W.; Zhang, J.; Jia, S.; Martí, A. A.; Zhao, Y.; Lou, J. Lead-Free Double Perovskite Cs₂SnX₆: Facile Solution Synthesis and Excellent Stability, *Small* **2019**, 1901650.
88. de los Reyes, C.; Hernández, K.; Martinez-Jiménez, C.; Walz Mitra, K. L.; Ginestra, C.; Smith

- McWilliams, A. D.; Pasquali, M.; Martí, A. A.* Tunable Alkylation of White Graphene (Hexagonal-Boron Nitride) using Reductive Conditions, *J. Phys. Chem. C* **2019**, 123, 19725-19733.
87. Kumar, K. D.; Suazo-Davila, D.; García-Torres, D.; Cook, N. P.; Ivaturi, A.; Hsu, M.-H.; Martí, A. A.; Cabrera, C. R.; Chen, B.; Bennett, N.; Upadhyaya, H. M. Low Temperature Titania-Graphene Quantum Dots Paste for Flexible Dye Sensitized Solar Cell Applications, *Electrochim. Acta* **2019**, 305, 278-284.
86. Smith McWilliams, A. D.; de los Reyes, C.; Liberman, L.; Ergülen, S.; Talmon, S.; Pasquali, M.; Martí, A. A.* Surfactant-Assisted Individualization and Dispersion of Boron Nitride Nanotubes, *Nanoscale Adv.* **2019**, 1, 1096-1103.
85. Marincel, D. M.; Adnan, M.; Ma, J.; Bengio, E. A.; Trafford, M. A.; Kleinerman, O.; Kosynkin, D.; Chu, S.-H.; Park, C.; Hocker, S. J. A.; Fay, C. C.; Arepalli, S.; Martí, A. A.; Talmon, Y.; Pasquali, M. Scalable Purification of Boron Nitride Nanotubes via Wet Thermal Etching, *Chem. Mater.* **2019**, 31, 1520-1527.
84. de los Reyes, C.; Smith McWilliams, A. D.; Hernández, K.; Mitra, K. L. W.; Ergülen, S.; Pasquali, M.; Martí, A. A.* Adverse Effect of PTFE Stir Bars on the Covalent Functionalization of Carbon and Boron Nitride Nanotubes Using Billups–Birch Reduction Conditions, *ACS Omega* **2019**, 4, 5098–5106.
83. Liu, Y.; Liang, C.; Wu, J.; Varma, S. J.; Nakanishi, Y.; Aliyan, A.; Martí, A. A.; Wang, Y.; Xie, B.; Kumar, J.; Layne, K.; Chopra, N.; Odeh, I.; Vajtai, R.; Thomas, J.; Peng, X.; Yang, W.; Ajayan, P. M. Reflux Pretreatment-Mediated Sonication: A New Universal Route to Obtain 2D Quantum Dots, *Mater. Today* **2019**, 22, 17-24.
82. Radhakrishnan, S.; Park, J. H.; Neupae, R.; de los Reyes, C.; Sudeep, P. M.; Paulose, M.; Martí, A. A.; Tiwary, C. S.; Khabashesku, V. N.; Varghese, O. K.; Kaiparettu, B. A.; Ajayan, P. M. Fluorinated Boron-Nitride Quantum Dots: A New 0D Material for Energy Conversion and Detection of Cellular Metabolism, *Part. Part. Syst. Char.* **2018**, 1800346.
81. Balan, A. P.; Radhakrishnan, S.; Neupane, R.; Yazdi, S.; Deng, L.; de los Reyes, C. A.; Apte, A.; Puthirath, A. B.; Rao, B. M.; Paulose, M.; Vajtai, R.; Chu, C.-W.; Martí, A. A.; Varghese, O. K.; Tiwary, C. S.; Anantharaman, M. R.; Ajayan, P. M. Magnetic Properties and Photocatalytic Applications of 2D Sheets of Nonlayered Manganese Telluride by Liquid Exfoliation, *ACS Appl. Nano Mater.* **2018**, 1, 6427–6434.
80. Balan, P. A.; Radhakrishnan, S.; Kumar, R.; Neupane, R.; Sinha, S. K.; Deng, L.; de los Reyes, C. A.; Apte, A.; Rao, B. M.; Paulose, M.; Vajtai, R.; Chu, C. W.; Costin, G.; Martí, A. A.; Varghese, O. K.; Singh, A. K.; Tiwary, C. S.; Anantharaman, M. R.; Ajayan, P. M. A Non-van der Waals 2D Material From Natural Titanium Mineral Ore Ilmenite, *Chem. Mater.* **2018**, 30, 5923–5931.
79. de los Reyes, C. A.; Walz-Mitra, K.; Smith, A. D.; Yazdi, S.; Frankovsky, F.; Ringe, E.; Pasquali, M.; Martí, A. A.* Chemical Decoration of Boron Nitride Nanotubes Using the Billups-Birch Reaction: Toward Enhanced Thermostable Reinforced Polymer and Ceramic Nanocomposites, *ACS Appl. Nano Mater* **2018**, 1, 2421–2429.
78. Meiyazhagan, A.; Aliyan, A.; Anumary, A.; Moreno-Gonzalez, I.; Susarla, S.; Yazdi, S.; Cuanalo-Contreras, K.; Vajtai, R.; Martí, A. A.; Ajayan, P. M. Soft Lithographic Patterning of Luminescent Carbon Nanodots Derived from Collagen Waste, *ACS Appl. Mater. Interfaces* **2018**, 10, 36275–36283.
77. Radhakrishnan, S.; Das, D.; Deng, L.; Sudeep, P. M.; Colas, G.; de los Reyes, C.; Chu, C.-W.; Martí, A. A.; Filleter, T.; Chandra, S. T.; Singh, A. K.; Ajayan, P. M. An Insight into the Phase Transformation of WS₂ upon Fluorination, *Adv. Mater.* **2018**, 30, 1803366.
76. Balan, P. A.; Radhakrishnan, S.; Woellner, C. F.; Sinha, S. K.; Deng, L.; de los Reyes, C.; Rao, B. M.; Paulose, M.; Neupane, R.; Apte, A.; Kochat, V.; Vajtai, R.; Harutyunyan, A. R.; Chu, C.-W.; Costin, G.; Galvao, D. S.; Martí, A. A.; van Aken, P. A.; Varghese, O. K.; Tiwary, C. S.; Anantharaman, M. R.; Ajayan, P. M. Exfoliation of a non-van der Waals material from iron ore hematite, *Nature*

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ORAL PRESENTATIONS:

1. Martí, A. A. The Chemistry and Organization of Boron Nitride Nanotubes, Argonne National Laboratory and the Nanoscience and Technology Division, January 2025, Argonne National Laboratory, Lemont, Illinois.
2. Martí, A. A. The Chemistry and Organization of Boron Nitride Nanotubes, Department of Chemical and Biomolecular Engineering, January 2025, Rice University, Houston.
3. Martí, A. A. The Chemistry and Organization of Boron Nitride Nanotubes, Boron in the Americas (BORAM) XVIII, December 2024, University of California Los Angeles, CA.

4. Martí, A. A. Photoactive Ruthenium Polypyridyl Complex Surfactants: Synthesis and Applications, 9th Latin American Symposium on Coordination and Organometallic Chemistry, November 2024, Habana, Cuba (Keynote Speaker).
5. Martí, A. A. Creación de materiales macroscópicos a través del ensamblaje de nanotubos de boro nitruro, XIX Encuentro de Química Inorgánica USACH, October 2024, Colchagua, Chile (Plenary speaker).
6. Martí, A. A. Interrogating Amyloid-Beta Aggregates using Photoactive Metal Complexes, Chemie Paris Tech, October 2024, Paris, France.
7. Martí, A. A. Self-assembly of photoactive metal complex surfactants into micellar nanoscale reactors in aqueous solution, 45th International Conference of Coordination Chemistry, August 2024, Fort Collins, CO.
8. Martí, A. A. Photophysical and Photochemical Changes in Metal Complexes Bound to Amyloid- β Peptides, 2nd Metal-Binding Peptides Conference, July 2024, Toulouse, France.
9. Martí, A. A. Effect of Abeta oxidation on pristine Abeta aggregation and toxicity. Spotlight on Alzheimer's Disease Research, Rice University, June 2024.
10. Martí, A. A. La Creación de Materiales Macroscópicos a Través del Ensamblaje de Nanotubos de Nitruro de Boro, ACS Webinars & Sociedad Química de México, May 2024 (online).
11. Martí, A. A. Liquid Crystals and Macroscopically Aligned Fibers from Boron-Nitride Nanotubes, Electrochemical Society Meeting, May 2024, San Francisco, CA.
12. Martí, A. A. Main Group Chemistry and One-Dimensional Nanomaterials: Emerging Chemistry of Boron-Nitride Nanotubes, Spring ACS National Meeting, March 2024, New Orleans, Louisiana.
13. Martí, A. A. Novel Strategies to Study Amyloid Aggregates using Photoactive Metal Complexes, LABIC, April 2023, Viña del Mar, Chile (Keynote speaker).
14. Martí, A. A. Shedding Light on Amyloid-Beta Nanostructures using Photoactive Metal Complexes, American Chemical Society National Meeting, Indianapolis, March 2023.
15. Martí, A. A. Interrogating Amyloid-Beta Nanostructures using Photoactive Metal Complexes, University of Texas, San Antonio, January 2023
16. Martí, A. A. Imaging and Dynamics of 2-Dimensional H-BN Nanosheets in Aqueous Solution, Southeastern Regional Meeting American Chemical Society, San Juan, PR; October 2022.
17. Martí, A. A. Enantioselectivity, Energetics and Binding Sites of Photoactive Metal Complexes in Supramolecular Amyloid-Beta Assemblies, 3rd Frontiers in Photochemistry Conference, Cancun Mexico, May 2022.
18. Martí, A. A. Interrogating Biological and Inorganic Supramolecular Structures using Photoactive Metal Complexes (virtual), Saturday Seminar Series Connecting Chemistry, Light and Life, National Chemical Laboratory-Pune, Maharashtra, India; May 2022.
19. Martí, A. A. Understanding the Aggregation and Binding Sites of Amyloid Nanoaggregates Using Photoluminescent Ruthenium Probes, Spring ACS National Meeting, San Diego, CA; March 2022.
20. Martí, A. A. Reductive Chemistry and Supramolecular Assembly of Nanoscale Building Blocks (virtual), Friedrich-Alexander-Universitaet Erlangen-Nuernberg, Germany; January 2022.
21. Martí, A. A. Metal Complexes as Versatile Tools to Study Amyloid Self-Assembly and Modulation; ACS South Western Regional Meeting, Austin, TX; November 2021.
22. Martí, A. A. Reductive Chemistry and Supramolecular Assembly of Nanoscale Building Blocks (virtual); Bowling Green State University, Bowling Green, OH; November 2021.

23. Martí, A. A. Reductive Chemistry and Supramolecular Assembly of Nanoscale Building Blocks (virtual); Joint School of Nanoscience and Nanoengineering, North Carolina A&T State, Greensboro, NC; September 2021.
24. Martí, A. A. Reductive Chemistry and Supramolecular Assembly of Nanoscale Building Blocks (virtual); Pennsylvania State University (Penn State), State College, PA; September 2021.
25. Martí, A. A. Light Activated Metal Complexes for Sensing, Studying and Inhibiting Amyloid- β Aggregation; University of Puerto Rico, Rio Piedras, Puerto Rico; September 2021.
26. Martí, A. A. X-Ray of Graduate School, the Application Process and Prospects; University of Puerto Rico, Rio Piedras, Puerto Rico; September 2021.
27. Martí, A. A. Reductive Chemistry and Supramolecular Assembly of Nanoscale Building Blocks; University of Puerto Rico, Rio Piedras, Puerto Rico; September 2021.
28. Martí, A. A. Sensing, Studying, and Inhibiting Amyloid- β Aggregation using Photoluminescent Metal Complexes; Arizona State University, Tempe AZ, August 2021.
29. Martí, A. A. Light Activated Metal Complexes for Sensing, Studying and Inhibiting Amyloid- β Aggregation; Rice University Alzheimer's Symposium, Houston, TX; November 2020.
30. Martí, A. A., Keynote speaker: Exfoliation and Diffusion of Two-Dimensional Hexagonal Boron-Nitride Nanosheets Using Fluorescent Surfactants and Their Assembly Into Macroscopic Materials; 5th International Conference on Bioinspired and Biobased Chemistry and Materials (NICE 2020); Nice, France; October 2020.
31. Martí, A. A. Photoactive Metal Complexes for Sensing, Study and Inhibition of Amyloid- β Aggregation; Texas Christian University, Fort Worth, TX; November 2019.
32. Martí, A. A. Light Activated Metal Complexes for Sensing, Studying and Inhibiting Amyloid- β Aggregation; Williams College, Williamstown, Massachusetts; September 2019.
33. Martí, A. A. Photoactive Metal Complexes for Sensing, Study and Inhibition of Amyloid- β Aggregation; Iowa State University, Ames, Iowa; September 2019.
34. Martí, A. A. Grafting Functional Groups to Boron-Nitride Nanomaterials; 258 ACS National Meeting; San Diego, Ca, August 2019.
35. Martí, A. A. Elucidating Binding Sites in Amyloid- β using Photoactive Rhenium(I) Dipyridophenazine Complexes, 256 ACS National Meeting; Orlando, FL, April 2019.
36. Martí, A. A. Dispersion, Characterization, and Diffusion of Boron-Nitride Nanotubes in Aqueous Solution; 257 ACS National Meeting; Orlando, FL, April 2019.
37. Martí, A. A. 28th Photoactive Rhenium Carbonyl Complexes as Sensors for Protein Aggregation and Photochemical Footprinting, Winter Meeting of the Inter-American Photochemical Society; Sarasota, FL, January, 2019.
38. Martí, A. A. Photoactive Rhenium Carbonyl Complexes as Sensors for Protein Aggregation and Photochemical Footprinting; Universidad de Santiago de Compostela, Santiago, Spain; October, 2018.
39. Martí, A. A. Reductive Chemistry for the Production and Manipulation of Nanoscale Building Blocks, Université Bordeaux-I, Bordeaux, France; October, 2018.
40. Martí, A. A. Light-Driven Processes in Nanomaterials of Multiple Dimensions, 4th International Conference on Bioinspired and Biobased Chemistry & Materials, Nice, France. October 2018; *Keynote speaker*.
41. Martí, A. A. Interaction Between Materials and Metal Complexes in Multiple Dimensions, American Society for Photobiology: Special Session Organic and Inorganic Photochemistry of Functional Materials: A Panamerican Perspective, Tampa, FL. May 2018.

42. Martí, A. A. Reductive Chemistry for the Production and Manipulation of Nanoscale Building Blocks, University of North Texas, Denton, TX. April, 2018.
43. Martí, A. A. Grafting Organic Functionalities to Boron Nitride Nanotubes Using Billups-Birch Reaction, 255th ACS National Meeting, New Orleans, LA. March 2018.
44. Martí, A. A. Photoactive Rhenium Dipyridophenazine Carbonyl Complexes as Sensors for Protein Aggregation and Photochemical Footprinting, 255th ACS National Meeting, New Orleans, LA. March 2018.
45. Martí, A. A. Photoactive Rhenium Carbonyl Complexes as Sensors for Protein Aggregation and Photochemical Footprinting, Universidad de Santiago, Chile, March, 2018.
46. Martí, A. A. Photoactive Rhenium Carbonyl Complexes as Sensors for Protein Aggregation and Photochemical Footprinting, University of Connecticut, Storrs, CT. November 2017.
47. Martí, A. A. Macroscopic Carbon-Based Materials from Nanoscale Building Blocks, University of Texas - El Paso, El Paso, TX. April 2017.
48. Martí, A. A. Sensing Amyloid Aggregation using Metal Complexes, University of Puerto Rico – Humacao, Humacao, PR. March, 2017.
49. Martí, A. A. Monitoring the Formation of Pre-Fibrillar Amyloid Aggregates using Fluorescence Anisotropy, 72nd ACS Southwestern Regional Meeting, Galveston, TX. November 2016.
50. Martí, A. A. Sensing Amyloid Aggregation using Metal Complexes, 72nd ACS Southwestern Regional Meeting, Galveston, TX. November 2016.
51. Martí, A. A. Macroscopic Carbon-Based Materials from Nanoscale Building Blocks, Louisiana State University, Baton Rouge, LA. September 2016.
52. Martí, A. A. Metal Complexes Sensors for Protein Aggregation, Inter-American Photochemistry Society Meeting, Santiago de Chile, Chile. May 2016.
53. Martí, A. A. Searching for Biomolecules Using Light and Time: A Tale Told by Metals, University of California San Diego, San Diego CA; May 2016.
54. Martí, A. A. Metal Complexes, Amyloid Diseases and Protein Aggregation: The Good, the Bad, and the Ugly, University of California Riverside, Department of Bioengineering, Riverside CA; February 2016.
55. Martí, A. A. Interrogating Biomolecules Using Light and Time: A Tale Told by Metals, University of California Riverside, Department of Chemistry, Riverside CA; February 2016.
56. Martí, A. A. Supramolecular organization of photoactive metal complexes in 1-3D, Pacificchem 2015, Honolulu, Hawaii; December 2015.
57. Martí, A. A. Interrogating Biomolecules Using Luminescent Probes: A Tale Told by Metals, Trinity University, San Antonio, TX; September 2015.
58. Martí, A. A. Shifting the Paradigm for Molecular Detection using Photoluminescent Metal Complexes and Time-Resolved Spectroscopy, 45th IUPAC World Chemistry Congress, Busan, Korea; August 2015.
59. Martí, A. A. Changing the Paradigm for the Detection of Biomolecules: a Story of Metals, Light, and Time, 35th Puerto Rico Interdisciplinary Scientific Meeting & 50th Junior Technical Meeting, San Juan PR, March 2015: *Plenary speaker*.
60. Martí, A. A. Photoluminescent Metal Complexes as Probes for Biologically Relevant Molecules, 248th ACS National Meeting, San Francisco, CA August 2014.
61. Martí, A. A. Metal Complexes as Photoluminescent Probes: A Tale of Metals, Light and Time, American Society for Photobiology 37th Conference, San Diego, CA, June 2014.

62. Martí, A. A. Metal Complexes as Photoluminescent Probes: A Tale of Metals, Light and Time, University of California, Los Angeles, Los Angeles, CA, April 2014.
63. Martí, A. A. Supramolecular Organization of Metal Complexes in One, Two and Three Dimensions, 247th ACS National Meeting, Inorganic Supramolecular Chemistry Symposium, Dallas, TX, March 2014.
64. Martí, A. A. Metal Complexes as Photoluminescent Probes: A Tale of Metals, Light and Time, University of Sao Carlos, Sao Carlos, Brazil, February 2014.
65. Martí, A. A. Interrogating Biomolecules Using Photoluminescent Metal Complexes, ACS South Western Regional Meeting, Waco, TX, November 2013.
66. Martí, A. A. Metal Complexes as Photoluminescent Probes: A Tale of Metals, Light and Time, University of Texas, Austin, TX, November 2013.
67. Martí, A. A. Metal Complexes as Photoluminescent Probes: A Tale of Metals, Light and Time, Johns Hopkins University, Baltimore, MD, October 2013.
68. Martí, A. A. Metal Complexes as Photoluminescent Probes: A Tale of Metals, Light and Time, University of Miami, Miami, FL, September 2013.
69. Martí, A. A. Metal Complexes as Photoluminescent Probes: A Tale of Metals, Light and Time, CASE Western Reserve University, Cleveland, OH, September 2013.
70. Martí, A. A. Photoluminescent Metal Complexes to Monitor the Formation Amyloid Aggregates, 245 ACS National Meeting, New Orleans, LA, April 2013.
71. Martí, A. A. Light Switching Complexes, Neurodegenerative Diseases and Amyloid Aggregates: The Good, the Bad, and the Ugly, University of Chicago, Chicago, IL, March 2013.
72. Martí, A. A. Photoluminescent Light-Switching Complexes as Probes for the Aggregation of Amyloid Proteins, Diversity Student-Hosted Seminar, Texas A&M, College Station, TX, February 2013.
73. Martí, A. A. Photoluminescent Light-Switching Complexes as Probes for the Aggregation of Amyloid Proteins, University of Houston, Houston, TX, January 2013.
74. Martí, A. A. Recent Advances in the Use of Photoluminescent Ruthenium(II) Dipyridophenazine Complexes to Monitor Different Aggregation States of Amyloid β Peptides, 68th Southwest Regional Meeting: Symposium - Chemical and Structural Biology: New Frontiers in Therapeutic Development, Baton Rouge, TX, November 2012.
75. Martí, A. A. Light Switching Complexes, Neurodegenerative Diseases and Amyloid Aggregates: The Good, the Bad, and the Ugly, Baylor University, Waco, TX, October 2012.
76. Martí, A. A. Light Switching Complexes, Neurodegenerative Diseases and Amyloid Aggregates: The Good, the Bad, and the Ugly, Texas State University-San Marcos, TX, October 2012.
77. Martí, A. A. Telling the Secrets of Time-Gating for the Enhancement of the Sensitivity of Photoluminescent Probes, Instrumentation and Applications of Fluorescence Spectroscopy Symposium, Houston, TX, September 2012.
78. Martí, A. A. Light Switching Complexes, Neurodegenerative Diseases and Amyloid Aggregates: The Good, the Bad, and the Ugly, North Dakota State University, September 2012.
79. Martí, A. A. Monitoring of Amyloid Protein Fibrillization using Dipyridophenazine Ruthenium (II) Complexes, West Michigan University, Kalamazoo, MI, November 2011.
80. Martí, A. A. Superacids, Supramolecular Frameworks and Super-Duper Carbon Nanotechnology, University of Puerto Rico, Río Piedras, August 2011.
81. Martí, A. A. Monitoring of Amyloid Protein Fibrillization using Dipyridophenazine Ruthenium (II) Complexes, Gordon Research Conference (Photochemistry), Stonehill College, MA, July 2011.

82. Martí, A. A. Amyloid Degradation by Artificial Peptidases, Invited by programs Marc and Sube, University of Puerto, Río Piedras, November 2009.
83. Martí, A. A.; Turro, N. J.; Chen, J. Y.-C.; Jockusch, S.; Ruzzi, M.; Sartori, E.; Lawler, R. G.; Chuang, S.-C.; Komatsu, K.; Murata, Y. Conversations Between Molecular Hydrogen and Oxygen Through the Walls of C₆₀. The Reversible Conversion of the Allotropes of H₂@C₆₀. Presented at the Symposium on H₂@C₆₀, Columbia University, New York, NY, August 2008.
84. Martí, A. A.; Turro, N. J. Fluorescent Responsive Molecular Probes for Oligonucleotide Detection. Presented at the 235th ACS National Meeting, Chemical Evolution II Symposium, New Orleans, April 2008.
85. Martí, A. A. (Faculty Interview) Unambiguous Detection of Specific mRNA Sequences Using Binary Probes and Time-Resolved Fluorescence Spectroscopy, Rice University, Houston, TX, January 2008.
86. Martí, A. A. (Faculty Interview) Unambiguous Detection of Specific mRNA Sequences Using Binary Probes and Time-Resolved Fluorescence Spectroscopy, UCLA, Los Angeles, CA, January 2008.
87. Martí, A. A. (Faculty Interview) Unambiguous Detection of Specific mRNA Sequences Using Binary Probes and Time-Resolved Fluorescence Spectroscopy, University of Miami, Miami, FL, December 2007.
88. Martí, A. A. (Faculty Interview) Unambiguous Detection of Specific mRNA Sequences Using Binary Probes and Time-Resolved Fluorescence Spectroscopy, University of Georgia, Athens, GA, November 2007.
89. Martí, A. A. (Faculty Interview) Unambiguous Detection of Specific mRNA Sequences Using Binary Probes and Time-Resolved Fluorescence Spectroscopy, College of Staten Island, New York, NY, November 2007.
90. Martí, A. A. (Faculty Interview) Unambiguous Detection of Specific mRNA Sequences Using Binary Probes and Time-Resolved Fluorescence Spectroscopy, Hunter College, New York, NY, September 2007.
91. Martí, A. A.; Puckett, C.; Dyer, J.; Stevens, N.; Jockusch, S.; Ju, J.; Barton, J. K.; Turro, N. J. Spin-Forbidden Resonance Energy Transfer Probes for DNA Detection. Presented at the Ninth Annual Wyeth/Columbia Workshop, Columbia University, New York, NY, May 2007.
92. Martí, A. A.; Li, X.; Li, Z.; Jockusch, S.; Ju, J.; Turro, N. J. Unambiguous Detection of Specific mRNA Sequences Using Binary Probes and Time-Resolved Fluorescence Spectroscopy. Presented at the Department of Chemistry, Columbia University, New York, NY, April 2006.
93. Martí, A. A.; Li, X.; Li, Z.; Jockusch, S.; Ju, J.; Turro, N. J. Pyrene-Based Binary Probes for Oligonucleotides Detection. Presented at the Eighth Annual Wyeth/Columbia Workshop, Columbia University, New York, NY, May 2006.
94. Martí, A. A.; Jockusch, S.; Li, Z.; Li, X.; Stevens, N.; Akins, D. L.; Turro, N. J.; Ju, J. The Design of Molecular Beacons for mRNA Analysis. Seventh Annual Wyeth/Columbia Workshop, Columbia University, New York, NY, May 2005.
95. Martí, A. A.; Li, Z.; Jockusch, S.; Ju, J.; Turro, N. J. DNA Detection Using Molecular Beacons with Fluorescent Bases. Presented at the Summer Summit of the Center of Excellence in Genomic Sciences, San Juan, PR, June 2005.
96. Martí, A. A. Photophysical and Photochemical Studies of Luminescent Molecules Directly Intercalated into Zirconium Phosphate. University of Puerto Rico, Río Piedras, PR, May 2004 (*Thesis defense*).
97. Martí, A. A.; Colón, J. L. Nanoencapsulation of Tris(2,2'-bipyridyl)ruthenium(II) by an Alpha-Zirconium Phosphate Framework: Toward Long-Lived Light-Induced Charge Separation. Presented at the Puerto Rico ACS Local Section Meeting, Isabela PR, 2004.

98. Martí, A. A.; Colón, J. L. Direct intercalation and spectroscopic characterization of luminescent molecules in alpha-zirconium phosphate materials. Presented at the SACNAS National Conference, Albuquerque, NM, 2003.

PATENTS:

1. Marti-Arbona, A. A.; McWilliams, A.; Ergülen, S. Fluorescent surfactants for domestic and industrial applications, Invention disclosure, TechID 2019-051, **2019**.
2. Marti-Arbona, A. A.; McDowell, M.; Tour, J. M.; Metzger, A. B. Graphene quantum dots-rare earth conjugates with unique photoluminescent signatures for identification and anti-counterfeiting applications, Invention disclosure, TechID 2018-051, **2018**.
3. Marti-Arbona, A. A.; Jiang, C.; Saha, A.; Pasquali, M.; Young, C. Liquid Crystals from Single-Walled Carbon Nanotube Polyelectrolytes and Their Use for Making Materials; United State Patent and Trademark Office; 9,249,023, **2016**.
4. Marti-Arbona, A. A.; Saha, A.; Pasquali, M. Immobilized Carbon Nanotubes on Various Surfaces; United State Patent and Trademark Office; 9,095,876, **2015**.

LIST OF CURRENT FUNDING

- **REU SITE: Research and Leadership Enabling Advanced Discoveries (RLEAD) in Chemical Nanoscience and Nanotechnology**

Project Role: Principal Investigator
Source of Support: National Science Foundation
Total Award Amount: \$ 404,200.00
Period Covered: 04/01/22 - 03/31/25

- **Dawn of Photoactive Metal Complex Surfactants: Synthesis, Properties, and Applications**

Project Role: Principal Investigator
Source of Support: Welch Foundation
Total Award Amount: \$300,000.00
Period Covered: 06/01/23 - 05/31/26

- **BPC-DP: Rice Emerging Scholars Program for Computer Science**

Project Role: co-Principal Investigator
Source of Support: National Science Foundation
Total Award Amount: \$300,000.00
Period Covered: 10/01/23 - 09/30/25

- **Uncovering New Chemical and Physical Methods to Analyze Biological Fibrillar Nanostructures**

Project Role: Principal Investigator
Source of Support: National Institute of Health
Total Award Amount: \$ 1,875,765.00
Period Covered: 03/01/24 - 02/28/28

- **S-STEM: Addressing Disparities in STEM Educational Access and Outcomes among Historically Excluded and Under-resourced Students**

Project Role: Principal Investigator
Source of Support: NSF
Total Award Amount: \$2,500,000.00
Period Covered: 03/01/24 - 02/28/30

- **NSF-BSF: Chemistry, Properties, Self-Organization and Phase Transitions of Boron-Nitride Nanotubes**

Project Role:	Principal Investigator
Source of Support:	NSF
Total Award Amount:	\$525,000.00
Period Covered:	09/01/24 - 08/31/27