

CURRICULUM VITAE

MARIE-CHRISTINE DANIEL

Associate Professor
Department of Chemistry & Biochemistry
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Education

Ph.D.	2003	University of Bordeaux 1 (France), Chemistry
M.S.	2000	University of Rennes 1 (France), Chemistry
B.S.	1998	University of Rennes 1 (France), Chemistry

Positions and Employment

August 2013 - Present	University of Maryland Baltimore County , Baltimore, MD, Associate Professor in Chemistry,
April 2008 - Present	Member of the Experimental Therapeutics Program, within the University of Maryland Marlene and Stewart Greenebaum Cancer Center Program in Oncology.
August 2007-July 2013	University of Maryland Baltimore County , Baltimore, MD, Assistant Professor in Chemistry,
Oct 2004-July 2007	Indiana University , Bloomington, IN, Postdoctoral research associate, Chemistry.
June-July 2004	Tokyo University , Tokyo (Japan), Post-doctoral training, Chemistry.
2003-04	University of Bordeaux 1 , Bordeaux (France), Research and teaching associate, Chemistry

Honors and Awards

2022	CNMS Mid-Career Faculty Excellence Award
2011	UMBC Entrepreneurship and Innovation Curriculum Award
2010	UMBC Summer Faculty Fellowship
2009	Prostate Cancer Research Program New Investigator Award, (Department of Defense (DOD), Office of the Congressionally Directed Medical Research Programs (CDMRP))
2008	Career Development Award, American Association for Cancer Research-Pancreatic Cancer Action Network (AACR-PanCAN)
2008	UMBC Summer Faculty Fellowship

Research Support and Fellowships

2027-2029	\$149,941 (\$98,187 Direct) Common Grant, “Dual-Drug Nanorattles for Photothermal Chemotherapy”, <u>Source</u> : The Anna Fuller Fund (Wells Fargo Foundation), <u>Role</u> : PI Submitted on July 31, 2026
2027-2031	\$2,360,303 (\$1,630,370 Direct) R01 14656317 “High-Efficacy, Low-Side-Effect Chemotherapy via the Integration of All-in-One Drug Delivery Systems and Mild Whole-Body Hyperthermia”, <u>Source</u> : NIH (NCI), <u>Role</u> : PI Submitted on June 4, 2026
2026 – 2027	\$50,000 (\$50,000 Direct) ATIP Grant, “Nanocarrier-driven CN06 delivery for improved in vivo pharmacokinetics”, <u>Source</u> : UMB-ICTR (NIH-supported); <u>Role</u> : PI (50%)
2024 – 2025	\$25,000 (\$25,000 Direct) START Award, “Targeted Nanotheranostics with High-payload for Metastatic Prostate Cancer”, <u>Source</u> : UMBC, <u>Role</u> : PI
2026 (Jan to Dec)	\$23,098 (\$15,636 Direct) IMOD Fellowship, <u>Source</u> : NSF (STC IMOD Center), <u>Role</u> : Mentor (of Lekan Ajiboye)
2024 – 2026	\$100,000 (\$100,000 Direct) CBI Fellowship, <u>Source</u> : T32 GM158458 (CBI training program), <u>Role</u> : Mentor (of Michael Marciniak)
2024 – 2025	\$62,220 (\$42,209 Direct) DEI Fellowship, <u>Source</u> : NSF (STC IMOD Center), <u>Role</u> : Mentor (of Lekan Ajiboye)
2023 – 2024	\$75,000 (\$49,920 Direct) Seed Grant, “A Novel Route for Highly Luminescent Water-Soluble Quantum Dots to Enable Quantum Applications”, <u>Source</u> : NSF (STC IMOD Center), <u>Role</u> : PI
2021 – 2024	\$382,179 (\$266,203) CBET-2045234, “High-intensity focused ultrasound (HIFU) energized functionalized nanoparticles mediated enhanced thermal ablation of tumors”, <u>Source</u> : NSF, <u>Role</u> : Co-PI (23%)
2020 – 2023	\$179,537 (\$125,472) EPM-1905135, “AGEP-GRS Supplement: Assemblies of Metal Nanoparticles and Single Quantum Dots with Low-Power, Ultrafast Nonlinear Optical Response”, <u>Source</u> : NSF, <u>Role</u> : PI and Mentor (of Chanda Lowrance).
2020 – 2021	\$25,000 (\$25,000 Direct) TCF20DAN “Nanoparticle - based microfluidic device for lead sensing in tap water”, <u>source</u> : UMBC Technology Catalyst Fund, <u>Role</u> : PI
2019 – 2023	\$462,555 (\$313,763 Direct) EPM-1905135, “Assemblies of Metal Nanoparticles and Single Quantum Dots with Low-Power, Ultrafast Nonlinear Optical Response”, <u>Source</u> : NSF, <u>Role</u> : Co-PI (50%)

2019 – 2022	\$115,000 (\$115,000 Direct) CBI Fellowship, <u>Source:</u> T32 GM158458 (CBI training program), <u>Role:</u> Mentor (of Lance Dockery)
2017 – 2021	\$330,060 (\$234,972 Direct) CBET 1705538 “Mild Hyperthermia Enhanced Delivery of Drug-loading Nanoparticles Targeting Reduction of Interstitial Pressure in Tumors: Imaging, In Vivo Study, and Simulation”, <u>source:</u> NSF, <u>role:</u> Co-PI (33%)
2017 – 2019	\$70,000 (\$70,000 Direct) IMSD Meyerhoff Graduate Fellowship (NIH-IMSD Program), <u>Source:</u> NIH, <u>Role:</u> Mentor (of Chanda Lowrance)
2015 – 2018	\$389,998 (\$266,262 Direct) CHE-1507462, “Characterization of Interactions between Coexisting Functionalities on Highly Multifunctional and Modular Nanocarriers”, <u>Source:</u> NSF (CHE), <u>Role:</u> PI
2013 – 2016	\$500,000 (\$500,000 Direct) DMR-1337727, "MRI: Acquisition of a field emission scanning electron microscope to support research and education at UMBC." <u>source:</u> NSF (Major Research Instrumentation Grant), <u>Role:</u> Co-PI
2013 – 2014	\$65,000 (\$65,000 Direct) SEED3ONU, “Comparative Studies of the Intracellular Trafficking of Several Classes of Dendronized Drug Nanocarriers”, <u>Source:</u> UMB-UMBC Research & Innovation Partnership Seed Grant Program, <u>Role:</u> Co-PI (50%)
2012 – 2013	\$128,106 (\$128,106 Direct) CBET1238292, “Reporter Compounds for Quantitative Imaging of Biomolecular Interactions using Coherent x-ray Scattering”, <u>source:</u> NSF/FDA SIR, <u>role:</u> Co-PI (34%)
2009 – 2012	\$317,923 (\$218,105 Direct) W81XWH-09-1-0735, “Multifunctional Gold Nanoparticles as New Nanovectors for Targeted Combination Therapy of Prostate Cancer”, <u>source:</u> DOD CDMRP, <u>role:</u> PI
2008 – 2010	\$100,000 (\$100,000 Direct) 08-20-25-DANI, “Multifunctional Nanovectors for Pancreatic Cancer Therapy”, <u>source:</u> AACR-PanCAN, <u>role:</u> PI

Ph.D. Students

1. Ayden Roberts, degree expected in 2029, Role: Ph.D. advisor/committee Chair
2. Lekan Ajiboye, degree expected in 2027, Role: Ph.D. advisor/committee Chair
3. Michael Marciniak, degree expected in 2026, Role: Ph.D. advisor/committee Chair
4. Chanda Lowrance, received Ph.D. degree in Dec. 2024, Role: Ph.D. advisor/committee Chair
5. Tohid Baradaran Kayyal, received Ph.D. degree in Nov. 2024, Role: Ph.D. advisor/committee Chair
6. Lance Dockery, received Ph.D. degree in May 2022, Role: Ph.D. advisor/committee Chair

7. Brian Szychowski, received Ph.D. degree in Dec. 2018, Role: Ph.D. advisor/committee Chair
8. Arunendra Saha Ray, received Ph.D. degree in Dec. 2018, Role: Ph.D. advisor/committee Chair
9. William Ghann: received Ph.D. degree in Dec. 2014; Role: Ph.D. advisor/committee Chair
10. Margaret Grow: received Ph.D. degree in Aug. 2012; Role: Ph.D. advisor/committee Chair

Master Students

Yashi Bhagchandani: received Masters degree in May 2010; Role: M.S. advisor/committee Chair

Undergraduate Students

1. Nusaibah Musarrat, UMBC undergraduate research (July 2026 – Present), Role: research mentor
2. Tabitha Oluwabuyi, UMBC undergraduate research (June 2026 – Present), Role: research mentor
3. John Van Wie, UMBC undergraduate research (Dec 2025 – Present), Role: research mentor
4. Tsion Lemi, UMBC Undergraduate Research Award (Sept. 2024 – Present), Role: research mentor
5. Suzi Agyako-Wiredu, UMBC Undergraduate Research Award (June 2023 – May 2026), Role: research mentor
6. Jumana Al-Anesi, UMBC undergraduate research (July 2024 – May 2025), Role: research mentor
7. Paisley Nowell, UMBC Undergraduate Research Award (Nov. 2022 – May 2025), Role: research mentor
8. Ryan Hoffman, U-RISE undergraduate researcher (Sept. 2021 – May 2024), Role: research mentor
9. Taylor Thorsen, UMBC Undergraduate Research Award (Jan. 2022 – May 2023), Role: research mentor
10. Ismael Watts-Ouattara, UMBC Undergraduate Research Award (March 2020 – May 2022), Role: research mentor
11. Eugene Bosworth, UMBC undergraduate research (Jan. 2020 – May 2021), Role: research mentor
12. Sheku Deen-Tarawalie, UMBC undergraduate research (Oct. 2019 – May 2021), graduated May 2021, Role: research mentor
13. Zachary Clifford, UMBC undergraduate research (Fall 2019), Role: research mentor
14. Renee Suzich. UMBC REU fellow (Summer 2018), Role: research mentor
15. Oluwatomiwa Oladunni, MARC undergraduate student (Nov. 2017 – May 2020), graduated May 2020, Role: research mentor
16. Angelie Matar, UMBC REU fellow (Summer 2017), Role: research mentor

17. Mia Wessel, UMBC Undergraduate Research Award (Sept. 2016 – May 2019), graduated May 2019, Role: research mentor
18. Jashaun Bottoms, UMBC REU fellow (Summer 2016), Role: research mentor
19. Drew Spera, UMBC undergraduate research (June 2016 – May 2018), graduated May 2018, Role: research mentor
20. Lisa Hong, UMBC undergraduate research (Feb. 2016 – May 2018), Role: research mentor
21. Siya Bhagat, UMBC undergraduate research (Feb. 2016 - May 2018), Role: research mentor
22. Devyn Catterton, UMBC Undergraduate Research Award (Sept. 2014 - May 2016). graduated May 2016, Role: research mentor
23. Devin Taylor, UMBC Undergraduate Research Award (Jan. 2014 - May 2016). graduated May 2016, Role: research mentor
24. Daniel Ricci, UMBC undergraduate research (Jan. 2014 – May 2015), graduated May 2015, Role: research mentor
25. John Vanik, UMBC undergraduate research (Jan. 2014 – May 2015), graduated May 2015, Role: research mentor
26. Jordan Wilson, UMBC undergraduate research (Feb. 2013 – May 2014), graduated May 2014, Role: research mentor
27. Monica Pruitt, UMBC undergraduate research (Feb. 2013 – May 2014), graduated May 2014, Role: research mentor
28. Phoebe Tsoi, UMBC undergraduate research (Sept. 2012 – May 2015), graduated May 2015, Role: research mentor
29. Kedar Perkins, MARC undergraduate research (Fall 2011 – May 2014), graduated May 2015, Role: research mentor
30. Ethan Bright, UMBC undergraduate research (Sept. 2012 – Spring 2013), Role: research mentor
31. Ebony Tongo, UMBC undergraduate research (Jan. 2012 – Dec. 2012), Role: research mentor
32. Christina Parker, UMBC undergraduate research (Fall 2011 – May 2013), graduated May 2013, Role: research mentor
33. Alexander Malyshev, UMBC undergraduate research (Summer 2011 – Fall 2011), Role: research mentor
34. Daniel Gardner, UMBC undergraduate research (Summer 2011 – May 2012), graduated May 2012, Role: research mentor
35. Justin Martin, UMBC undergraduate research (Summer 2011), graduated May 2012, Role: research mentor
36. Phillip Geter, UMBC undergraduate research (Fall 2010 – May 2012), graduated May 2012, Role: research mentor
37. Kara Zabetakis, UMBC undergraduate research (Summer 2010 - May 2011), graduated May 2011, Role: research mentor
38. Camille Vu, UMBC undergraduate research (Spring 2010 - May 2011), Role: research mentor

39. Sharmila Das, Dean Scholar, UMBC undergraduate research (Fall 2009 - May 2011), graduated May 2011, Role: research mentor
40. Udit Pandya, UMBC undergraduate research (Fall 2009), graduated May 2011 with a different major, Role: research mentor
41. Joseph Cornish, UMBC undergraduate research (Summer 2009), graduated May 2012, Role: research mentor
42. Phuong Ha, UMBC undergraduate research (Spring 2009), graduated May 2009, Role: research mentor
43. Maria Bednarek. UMBC Undergraduate Research Award, (06/15/2008 – July 2010), graduated May 2010, Role: research mentor
44. Cesar Baeta, UMBC undergraduate research (Fall 2007 – Spring 2010), graduated May 2012, Role: research mentor
45. Evelyn Ojo, UMBC undergraduate research (Fall 2007 – Spring 2008), graduated May 2012, Role: research mentor

High-School Students

1. Heath Cho, ACS SEED 1 Project (June – Aug. 2026)
2. Elizabeth Yoo, ACS SEED 1 Project (June – Aug. 2025)
3. Phu (Tan) Quach, ACS SEED II Project (June – Aug. 2024)
4. Kevin Hu, ACS SEED 1 and SEED II Projects (June – Aug. 2018, and July-Aug.2019)
5. Absatou Njie, ACS SEED II Project (June – Aug. 2017)
6. Steven Hu, ACS SEED 1 Project (June – Aug. 2016)
7. Harrison Razanajatovo, ACS SEED 1 Project (June – Aug. 2015)
8. Hamza Ahmed, ACS SEED 1 Project (June – Aug. 2014)
9. Angela Chan, ACS SEED 1 Project (June – Aug. 2013)
10. Cecelia Morra, Senior Project (May – June 2013)

PUBLICATIONS

^U UMBC undergraduate student; ^G UMBC graduate student; () Primary author

Publications in peer-refereed scientific journals

Book Chapters

1. (Hayashi, M. A. F.); Campeiro, J. D. A; Carvalho Porta, L; Szychowski, B.^G; Alves, W.; Oliveira, E. B.; Kerkis, I.; **Daniel, M.-C.**; Karpel, R. L. “Crotamine Cell-Penetrating Nanocarriers: Cancer-Targeting and Potential Biotechnological and/or Medical Applications. In: Ferrari, E., Soloviev, M. (eds) *Nanoparticles in Biology and Medicine. Methods in Molecular Biology*, vol 2118. Humana, New York, NY. *Springer*, **2020**. DOI: [10.1007/978-1-0716-0319-2_5](https://doi.org/10.1007/978-1-0716-0319-2_5)
2. (Dockery, L.)^G; **Daniel M.-C.** “Dendronized Systems for the Delivery of Chemotherapeutics” In: *Cancer Nanotechnology, Volume 139 of Advances in Cancer Research book series*, 1st Edition, Ann-Marie Broome (Serial Volume Editor), *Elsevier*, **2018**, 85-120. DOI: [10.1016/bs.acr.2018.04.003](https://doi.org/10.1016/bs.acr.2018.04.003)
3. **Daniel, M.-C.** “Drug delivery carriers.” In: *Emerging Applications of Colloidal Noble Metals in Cancer Nanomedicine*. Lakowicz JR, Zhang J (Eds). *Future Medicine*, London, UK, **2012**, 54–67. DOI: [10.2217/ebo.12.39](https://doi.org/10.2217/ebo.12.39)

Research Articles (Peer-reviewed)

4. (Marciniak, M.)^G; Van Wie, J.^U; Howe, A.; Talley, D.; Bieberich, C.; **Daniel, M.-C.** Dendronized vs. Linear PEG Coatings on Gold Nanoparticles: 25% PEG Coverage Provides Comparable Serum Resistance to Full PEG Surface, **2026** (In preparation)
5. (Marciniak, M.)^G; Howe, A.; Thomas, J.; Kookan, M.; Talley, D.; Bieberich, C.; **Daniel, M.-C.** pH-Responsive Docetaxel-Dendronized Gold Nanoparticle Conjugates for Targeted Chemotherapy in PC3 Prostate Cancer Models. **2026** (In preparation)
6. (Khanal, N.); Marciniak, M. ^G; **Daniel, M.- C.**; Zhu, L.; Dumoulin, C.; Stringer, K.; Myers, M.; Yarmolenko, P.; Banerjee, R. Assessing Fab-Functionalized Gold Nanoparticles Mediated Thermal Enhancement During High Intensity Focused Ultrasound Ablation in Mouse Tumor Model. *ACS Appl. Bio Mater.*, **2025**, 8, 11, 9696–9708. DOI: [10.1021/acsabm.5c00879](https://doi.org/10.1021/acsabm.5c00879)
7. (Baradaran Kayyal, T.) ^G; Kizhake Veetil, V. ^G; Mathew, R.; Ajiboye, L. ^G; Lowrance, C. M. ^G; Pelton, M.; **Daniel, M.-C.** Directed Assembly of Gold Bipyramids and Quantum Dots via Click Chemistry for Plasmon-Exciton Coupling. *ACS Appl. Nano Mater.* **2025**, 8, 39, 18751–18761. DOI: [10.1021/acsanm.5c02896](https://doi.org/10.1021/acsanm.5c02896)
 - Amongst the Most-Read and Trending Research Papers from *ACS Appl. Nano Mater* in Nov 2025.
8. (Baradaran Kayyal, T.) ^G; Thorsen, T.^U; Marciniak, M. ^G; Roberts, A. ^G and **Daniel M.-C.** Dual Role of Dendronized Gold Nanoparticles as both Catalyst and Cargo-Loading Core in the Formation of Gold Nanorattles. *Langmuir* **2025**, 41, 33, 21936–21945. DOI: [10.1021/acs.langmuir.5c00935](https://doi.org/10.1021/acs.langmuir.5c00935)
9. (Baradaran Kayyal, T.) ^G; Tucker, J.^U; Lowrance, C. M. ^G; Ajiboye, L. ^G; Pelton, M.; Bennett, J. W.; **Daniel, M.-C.** Oleic Acid Rearrangement Enables Facile Transfer of Red-Emitting Quantum Dots from Hexane into Water with Enhanced Fluorescence. *Nanoscale* **2025**, 17, 12894-12910. DOI: [10.1039/d5nr00246j](https://doi.org/10.1039/d5nr00246j)

10. (Dockery, L.)^G; **Daniel M.-C.** Targeted Doxorubicin-Loaded Dendronized Gold Nanoparticles. *Pharmaceutics* **2023**, 15(8), 2103. DOI: [10.3390/pharmaceutics15082103](https://doi.org/10.3390/pharmaceutics15082103)
11. (Dockery, L.)^G; Zalesak-Kravec, S.; Kane, M.A.; **Daniel M.-C.** Modular and efficient synthesis of a poly (propylene imine) (PPI) dendron applied to acid-sensitive doxorubicin conjugation. *Tetrahedron* **2022**, 125,133044. DOI: [10.1016/j.tet.2022.133044](https://doi.org/10.1016/j.tet.2022.133044)
12. (Gu, Q.)^G, Dockery, L. ^G, **Daniel, M.-C.**, Bieberich, C. J., Ma, R., Zhu, L. Nanoparticle Delivery in Prostate Tumors Implanted in Mice Facilitated by Either Local or Whole-Body Heating. *Fluids* **2021** 6, 272(1-17). DOI: [10.3390/fluids6080272](https://doi.org/10.3390/fluids6080272)
13. (Gu, Q.)^G; Liu, S.; Saha Ray, A. ^G; Florinas, S.; Christie, R. J.; **Daniel, M.-C.**; Bieberich, C.; Ma, R.; Zhu, L. Mild Whole-Body Hyperthermia-Induced Interstitial Fluid Pressure Reduction and Enhanced Nanoparticle Delivery to PC3 Tumors: In Vivo Studies and Micro-Computed Tomography Analyses. *J. Thermal Sci. Eng. Appl.* **2020**, 12, 061001(1-10). DOI: [10.1115/1.4046520](https://doi.org/10.1115/1.4046520)
14. (Saha Ray, A.)^G; Ghann, W.E. ^G; Tsoi, P.^U; Szychowski, B. ^G; Dockery, L. ^G; Pak, Y.; Li, W.; Kane, M.; Swaan, P.; **Daniel, M.-C.** Set of Highly Stable Amine- and Carboxylate-terminated Dendronized Au Nanoparticles with Dense Coating and Nontoxic Mixed-dendronized Form. *Langmuir* **2019**, 35 (9), 3391-3403. DOI: [10.1021/acs.langmuir.8b03196](https://doi.org/10.1021/acs.langmuir.8b03196)
15. (Hansen, M.); Truong, J.; Szychowski, B. ^G; Xie, T.; **Daniel, M.-C.**; Hahm, J. I., Single Nanomaterial Level Investigation of ZnO Nanorod Sulfidation Reaction via Position Resolved Confocal Raman Spectroscopy. *Nanoscale* **2019**, 11, 1147-1158. DOI: [10.1039/c8nr06039h](https://doi.org/10.1039/c8nr06039h)
16. (Leng, H.) ^G; Szychowski, B. ^G; **Daniel, M.-C.**; Pelton, M. Strong Coupling and Transparency at Room Temperature with Single Quantum Dots and Gap Plasmons. *Nature Communications* **2018**, 9:4012, DOI: [10.1038/s41467-018-06450-4](https://doi.org/10.1038/s41467-018-06450-4)
17. (Szychowski, B.)^G; Leng, H. ^G; Pelton, M.; **Daniel, M.-C.** Controlled etching and tapering of Au nanorods using cysteamine. *Nanoscale* **2018**, 10 (35), 16830-16838. DOI: [10.1039/c8nr05325a](https://doi.org/10.1039/c8nr05325a)
18. (Karpel, R. L.); da Silva Liberato, M.; Campeiro, J. D.; Bergeon, L.; Szychowski, B. ^G; Butler, A.^U; Marino, G.^U; Cusic, J. F.^U; de Oliveira, L. C. G.; Oliveira, E. B.; de Farias, M. A.; Portugal, R. V.; Alves, W. A.; **Daniel, M.-C.**; Hayashi, M. A. F., Design and Characterization of Crotamine-functionalized Gold Nanoparticles. *Colloids Surf B Biointerfaces* **2018**, 163, 1-8. DOI: [10.1016/j.colsurfb.2017.12.013](https://doi.org/10.1016/j.colsurfb.2017.12.013)
19. (Truong, J.); Hansen, M.; Szychowski, B. ^G; Xie, T.; **Daniel, M.-C.**; Hahm, J. I., Spatially Correlated, Single Nanomaterial-Level Structural and Optical Profiling of Cu-Doped ZnO Nanorods Synthesized via Multifunctional Silicides. *Nanomaterials (Basel)* **2018**, 8 (4), 222. DOI: [10.3390/nano8040222](https://doi.org/10.3390/nano8040222)
20. (Leng, H.); Szychowski, B. ^G; **Daniel, M.-C.**; Pelton, M., Dramatic Modification of Coupled-Plasmon Resonances Following Exposure to Electron Beams. *J Phys Chem Lett* **2017**, 8 (15), 3607-3612. DOI: [10.1021/acs.jpcllett.7b01601](https://doi.org/10.1021/acs.jpcllett.7b01601)
21. (Allec, N.); Choi, M. ^G; Yesupriya, N.; Szychowski, B. ^G; White, M. ^G; Kann, M.; Garcin, E.; **Daniel, M.-C.**; Badano, A. Small-angle X-ray scattering method to characterize molecular interactions: Proof of concept. *Scientific Reports*, **2015**; 5: 12085. DOI: [10.1038/srep12085](https://doi.org/10.1038/srep12085)
22. (Pan, H.; Grow, M. E. ^G); Wilson, O. M. and **Daniel, M.-C.** A New PPI Dendron as Potential Convenient Building-block in Construction of Multifunctional Systems for Biomedical Applications. *Tetrahedron*, **2013**, 69, 2799-2806. DOI: [10.1016/j.tet.2013.01.070](https://doi.org/10.1016/j.tet.2013.01.070)

23. (Zabetakis, K.^U; Ghann, W. E. ^G); Kumar, S.; **Daniel, M.-C.** Effect of high gold salt concentrations on the size and polydispersity of gold nanoparticles prepared by an extended Turkevich-Frens method, *Gold Bulletin*, **2012**, 45(4), 203-211. DOI: [10.1007/s13404-012-0069-2](https://doi.org/10.1007/s13404-012-0069-2)
24. (Ghann, W. E.)^G; Aras, O.; Fleiter, T.; **Daniel M.-C.** Syntheses and Characterization of Lisinopril-Coated Gold Nanoparticles as Highly Stable Targeted CT Contrast Agents in Cardiovascular Diseases, *Langmuir*, **2012**, 28(28), 10398-10408. DOI: [10.1021/la301694q](https://doi.org/10.1021/la301694q)
25. (**Daniel, M.-C.**)^{*}; Grow, M. E. ^G; Pan, H.; Bednarek, M.^U; Ghann, W. E. ^G; Zabetakis, K. ^U; Cornish, J. ^U Gold nanoparticle-cored Poly(propyleneimine) Dendrimers as New Platform for Multifunctional Drug Delivery Systems, *New Journal of Chemistry*, **2011**, 35(10), 2366-2374. DOI: [10.1039/C1NJ20206E](https://doi.org/10.1039/C1NJ20206E)
- Amongst top ten accessed articles from the online version of *New Journal of Chemistry* in Sept 2011
26. (**Daniel, M.-C.**); Tsvetkova, I. B.; Quinkert, Z.T.; Murali, A.; De, M.; Rotello, V. M.; Kao, C. C.; Dragnea, B.* Role of Surface Charge Density in Nanoparticle-Templated Assembly of Bromovirus Protein Cages, *ACS Nano* **2010**, 4(7), 3853-3860.
27. (Milon, J.; **Daniel, M.-C.**); Kaiba, A.; Guionneau, P.; Brandès, S.; Sutter, J.-P. Nanoporous Magnets of Chiral and Racemic [$\{Mn(HL)\}_2Mn\{Mo(CN)_7\}_2$] with Switchable Ordering Temperatures ($T_C = 85$ K - 106 K) Driven by H₂O Sorption (L = N,N-Dimethylalaninol), *J. Am. Chem. Soc.* **2007**, 129 (45), 13872 -13878.
28. (Sun, J.); Dufort, C.; **Daniel, M.-C.**; Murali A.; Chen, C.; Gopinath, K.; Stein, B.; De, M.; Rotello, V. M.; Holzenburg, A.; Kao, C. C.; Dragnea, B. Core-controlled Polymorphism in Virus-like-Particles, *Proceedings of the National Academy of Science of the United States of America* **2007**, 104(4), 1354-1359.
29. (Dixit, S. K.); Goicochea, N. L.; **Daniel, M.-C.**; Murali, A.; Bronstein, L.; De, M.; Stein, B.; Rotello, V. M.; Kao, C. C.; Dragnea, B. Quantum Dot Encapsulation in Viral Capsids, *Nano Letters* **2006**, 6, 1993-1999.
30. (Chen, C.); **Daniel, M.-C.**; Quinkert, Z. T.; De, M.; Stein, B.; Bowman, V. D.; Chipman, P. R.; Rotello, V. M.; Kao, C. C.; Dragnea, B. Nanoparticle-Templated Assembly of Viral Protein Cages, *Nano Letters* **2006**, 6, 611-616.
31. (Astruc, D.)^{*}; **Daniel, M.-C.**; Ruiz, J. Metallodendritic exo-receptors for the redox recognition of oxo-anions and halides, *Topics in Organometallic Chemistry* **2006**, 20, Issue Dendrimer Catalysis, 121-148.
32. (Ruiz, J.); **Daniel, M.-C.**; Astruc, D. Metallocenes as References for the Determination of Redox Potentials by Cyclic Voltammetry - Permethylated Iron and Cobalt Sandwich Complexes, Inhibition by Polyamine Dendrimers, and the Role of Hydroxy-containing Ferrocenes, *Canadian Journal of Chemistry* **2006**, 84(2), 288-299.
33. (**Daniel, M.-C.**; Sakamoto, A.); Ruiz, J.; Astruc, D.; Nishihara, H. Photoisomerization-induced Change in the Size of Ferrocenylazobenzene-attached Dendrimers, *Chemistry Letters* **2006**, 35, 38-39.
34. (**Daniel, M.-C.**); Ruiz, J.; Astruc D. Inhibition of the Electrochemistry of Ferrocenes by Polyamine Dendrimers and the Key Role of Hydrogen-bonding with Hydroxy Groups, *Chem. Commun.*, **2005**, 12, 1569-1571.
35. (Méry, D.); Ornelas, C.; Ruiz, J.; **Daniel, M.-C.**; Rodriguez, J.; Astruc, D.; Cordier, S.; Kiraki, K.; Perrin, C. Mo₆Br₈-Cluster-cored Organometallic Stars and Dendrimers, *C. R. Chimie*, **2005**, 8 (11-12), 1789-1797.

36. (**Daniel, M.-C.**); Ba, F.; Ruiz, J.; Astruc, D. Assemblies of Redox-Active Metallodendrimers using Hydrogen Bonding for the Electrochemical Recognition of the H_2PO_4^- and Adenosyl-5'-Triphosphate (ATP^{2-}) Anions, *Inorg. Chem.*, **2004**, 43, 8649-8657.
37. (Astruc, D.)*; Blais, J.-C.; **Daniel, M.-C.**; Martinez, V.; Nlate, S.; Ruiz, J. Nanoscale Metallodendritic Complexes in Electron Transfer Processes and Catalysis, Abd-El-Aziz Ed. Kluwer, Dordrecht, *Macromol. Symp.*, **2003**, 196, 1-25.
38. (Astruc, D.)*; Blais, J.-C.; **Daniel, M.-C.**; Gatard, S.; Nlate, S.; Ruiz, J. "Metallodendrimers and Dendronized Gold Colloids as Nanocatalysts, Nanosensors and Nanomaterials for Molecular Electronics." *C. R. Chimie*, **2003**, 6, 1117-1127.
39. (Ruiz, J.); Ruiz Medel, M.-J.; **Daniel, M.-C.**; Blais, J.-C.; Astruc, D. Redox-Robust Pentamethylamidoferrocenyl Metallodendrimers that cleanly and selectively Recognize the H_2PO_4^- Anion, *Chem. Commun.*, **2003**, 464-465.
40. (**Daniel, M.-C.**); Ruiz, J.; Blais, J.-C.; Daro, N.; Astruc, D. Synthesis of Five Generations of Redox Stable Pentamethylamidoferrocenyl Dendrimers As Electrochemical Exoreceptors for the Selective Recognition of H_2PO_4^- , HSO_4^- and Adenosyl-5'-Triphosphate (ATP^{2-}) Anions. Stereoelectronic and Hydrophobic Role of the Cp Permethylation, *Chem.-Eur. J.*, **2003**, 4371-4379.
41. (**Daniel, M.-C.**); Ruiz, J.; Astruc, D. Supramolecular H-Bonded Assemblies of Redox Active Metallodendrimers and Positive and Unusual Dendritic Effects on the Recognition of H_2PO_4^- , *J. Am. Chem. Soc.*, **2003**, 125, 1150-1151.
42. (**Daniel, M.-C.**); Ruiz, J.; Nlate, S.; Blais, J.-C.; Astruc D. Nanoscopic Assemblies between Supramolecular Redox Active Metallodendrons and Gold Nanoparticles: Synthesis, Characterisation and Selective Recognition of H_2PO_4^- , HSO_4^- and Adenosyl-5'-Triphosphate (ATP^{2-}) Anions, *J. Am. Chem. Soc.* **2003**, 125, 2617-2628.
43. (**Daniel, M.-C.**); Ruiz, J.; Nlate, S.; Palumbo, J.; Blais, J.-C.; Astruc, D. Gold Nanoparticles Containing Redox Active Supramolecular Dendrons that Recognise H_2PO_4^- , *Chem. Commun.* **2001**, 2000-2001.

Reviews (Peer-reviewed)

44. (Szychowski, B.)^G; Pelton, M.; **Daniel, M.-C.** Preparation and properties of plasmonic-excitonic nanoparticle assemblies. *Nanophotonics* **2019**, 8(4): 517-547. DOI: <https://doi.org/10.1515/nanoph-2018-0168>
45. (**Daniel, M.-C.**); Ruiz, J.; Nlate, S.; Astruc, D. Gold-nanoparticle-cored Polyferrocenyl Dendrimers: Modes of Synthesis and Functions as Exoreceptors of Biologically Important Anions and Re-usable Redox Sensors, *J. Inorg. Organomet. Polym.* **2005**, 15, 107-119.
46. (Astruc, D.)*; **Daniel, M.-C.**; Ruiz, J. Dendrimers and Gold Nanoparticles as Exoreceptors Sensing Biologically Important Anions, *Chem. Commun.*, **2004**, 23, 2637-2649 (Feature article).
47. (Astruc, D.)*; **Daniel, M.-C.**; Nlate, S.; Ruiz, J. Electrochemistry and Electron-transfer Chemistry of Metallodendrimers, Editor(s): Pombeiro, Armando J. L.; Amatore, Christian. *Trends in Molecular Electrochemistry*, **2004**, 283-310.
48. (**Daniel, M.-C.**); Astruc, D. Gold Nanoparticles: Assembly, Supramolecular Chemistry, Quantum-size Related Properties and Applications toward Biology, Catalysis and Nanotechnology. *Chem. Rev.*, **2004**, 104, 293-346. DOI: [10.1021/cr030698](https://doi.org/10.1021/cr030698)

Peer-Reviewed Conference Proceedings

49. (Ghann, W. E.)^G; Kim, Y.-S.; Xu, S.; Lu, Xin; Smith, M. F.; Gullapalli, R.; Fleiter, T.; Brechbiel, M. W.; **Daniel, M.-C.** Bifunctional gold nanoparticles for targeted dual imaging of angiotensin converting enzyme, *Proc. SPIE* **2013**, 8719, 87190U/1-87190U/9.
50. (Pan, H.); **Daniel, M.-C.** Studies of MRI relaxivities of gadolinium-labeled dendrons, *Proc. SPIE* **2011**, 8025, 80250F/1-80250F/9.
51. (Ghann, W. E.)^G; Aras, O.; Fleiter, T.; **Daniel, M.-C.** Synthesis and biological studies of highly concentrated lisinopril-capped gold nanoparticles for CT tracking of angiotensin converting enzyme (ACE), *Proc. SPIE* **2011**, Vol. 8025, 80250H/1-80250H/12.
52. (Pan, H.); Daniel, M.-C. Gadolinium-labeled dendronized gold nanoparticles as new targeted MRI contrast agent, *Proc. SPIE* **2010**, Vol. 7674, 767404/1-767404/10.
53. (**Daniel, M.-C.**)^{*}; Aras, O.; Smith, M. F.; Nan, A.; Fleiter, T.; “Targeted *in-vivo* computed tomography (CT) imaging of tissue ACE using concentrated lisinopril-capped gold nanoparticle solutions” *Proc. SPIE* **2010**, Vol. 7674, 76740J/1-76740J/9.
54. (Li, Y.); Baeta, C.^U; Aras, O.; **Daniel, M.-C.** Preparation of lisinopril-capped gold nanoparticles for molecular imaging of angiotensin-converting enzyme, *Proc. SPIE* **2009**, Vol. 7313, 731304/1-731304/8.

PRESENTATIONS

() Presenter, when multiple authors; ^{HS} High-school student

Invited Seminars/ Oral Presentations

1. Daniel M.-C. “Tailoring the Shape and Surface Coating of Gold Nanostructures for Targeted Drug Delivery and Advanced Metamaterials”, University of Illinois, Urbana Champaign, IL, September 2026.
2. (Marciniak M.), Daniel, M.-C. "Stealth Gold Nanoparticles: Development of a Branched PEGylated Coating for Systemic Drug Delivery Applications", Salisbury University, Salisbury, MD, April, 2025.
3. Daniel, M.-C.; Baradaran Kayyal, T. A Novel Route for Highly Luminescent Water-Soluble Quantum Dots to Enable Quantum Applications. NSF STC for the Integration of Modern Optoelectronic Materials on Demand (IMOD) Annual Meeting, Philadelphia, PA, USA, July 29-31, 2024.
4. Daniel, M.-C. “Dendronized Gold Nanoparticles for Targeted Cancer Therapy”, Howard University, Washington DC, October 2023.
5. Daniel, M.-C. “Dendronized Gold Nanoparticles for Cancer Therapy”, University of Maryland, Baltimore, MD, USA, October 2022.
6. Daniel, M.-C. Development of Inorganic Nanoparticles for Medical, Materials and Environmental Applications. Global Summit on Nanotechnology and Materials Sciences (GSNMS), Nice, France. August, 2022.
7. Daniel, M.-C. Targeted Dendronized Gold Nanoparticles for Stimuli-responsive Delivery of Doxorubicin. Global Virtual Summit on Nanoscience & Nanotechnology, Online. July, 2022. Oral Presentation.
8. Daniel, M.-C, “Multifunctional Dendronized Nanoparticles for Cancer Therapies”, 2021 TechConnect World Innovation Conference, National Harbor, DC, USA, October 18-20, 2021.

9. Daniel, M.-C. "Multifunctional inorganic nanoparticles for medical and materials applications", 50th MARM, ACS, Baltimore, MD, USA, May 30st – June 1st, 2019.
10. Daniel, M.-C. "Selective End-Etching and Tapering of Gold Nanorods using Cysteamine", Plasmon-Exciton Coupling Workshop, Telluride Science Research Center, Telluride, Colorado, USA, June 11-15, 2018.
11. Daniel, MC "Multifunctional Gold Nanoparticles for Clinical Imaging, Targeting and Therapeutic Use", 4th Annual Gilbert Ogonji Science Symposium, Coppin State University, Baltimore, MD, September 22, 2016.
12. Daniel, M.-C. "Gold Nanoparticles Preparation and their Functionalization for Biomedical Applications", Physics department, University of Maryland Baltimore County, MD, USA, November 2014.
13. Daniel, M.-C. "Preparation of Concentrated Gold Nanoparticles and their Functionalization for Use as Targeted Contrast Agents", International Symposium on Monolayer-Protected Clusters (ISMPC13), Pingree Park, Colorado, USA, July 31-August 3, 2013.
14. Daniel, M.-C. "Multifunctional gold nanoparticles for nanotheranostics", Georgetown University, DC, USA, September 2012.
15. Daniel, M.-C. "Gold nanocarriers for molecular imaging and drug delivery", Virginia Commonwealth University, VA, USA, November 2011.
16. Daniel, M.-C. "Construction of multifunctional drug nanocarriers for optimization of cancer chemotherapy", Biology department, University of Maryland Baltimore County, MD, USA, November 2010.
17. Daniel, M.-C. "Multifunctional Nanocarriers for Imaging and Chemotherapy", University of Maryland Baltimore, MD, USA, September 2010.
18. Daniel, M.-C. "Multifunctional Nanocarriers for Pancreatic Cancer Therapy", Goucher University, MD, USA, November 2009.
19. Daniel, M.-C. "Multifunctional Nanovectors for Cancer Therapy: New Drug Delivery Systems for Pancreatic Cancer Therapy", Millersville University, Millersville, PA, USA, November 24, 2008.
20. Daniel, M.-C. "Dendrimers and Gold Nanoparticles as Exoreceptors for the Electrochemical Recognition of Biologically Important Anions", Indiana University, Bloomington, IN, USA, February 2, 2005.
21. Daniel, M.-C. "Assemblies of Redox-active Metallodendrimers using Hydrogen Bonding for the Electrochemical Recognition of the H_2PO_4^- and Adenosyl-5'-Triphosphate (ATP^{2-}) Anions", Chuo University, Tokyo, Japan, July 15, 2004.
22. Daniel, M.-C. "Metallodendrimers and Dendronized Gold Colloids as Nanosensors for the Recognition of the H_2PO_4^- and Adenosyl-5'-Triphosphate (ATP^{2-}) Anions", Osaka City University, Osaka, Japan, July 8, 2004.
23. Daniel, M.-C. "Dendrimers and Gold Nanoparticles as Exo-receptors Sensing Biologically Important Anions", Kyoto University, Kyoto, Japan, July 7, 2004.
24. Daniel, M.-C. "Gold-nanoparticle-cored Polyferrocenyl Dendrimers as Exoreceptors of Biologically Important Anions and Re-usable Redox Sensors", Osaka University, Osaka, Japan, July 6, 2004.
25. Daniel, M.-C. "Syntheses of New Covalent and Supramolecular Dendrimers and Use for the Electrochemical Recognition of Anions of Biological Interest", Keio University, Yokohama, Japan, June 22, 2004.
26. Daniel, M.-C. "Electrochemical Supramolecular Recognition of Anions of Biological Interest with Dendritic and Gold Nanoparticle-based Exoreceptors", Tokyo University, Tokyo, Japan, June 8, 2004.

Oral Presentations at National/International Conferences (Juried/Refereed)

27. (Ajiboye L.)^G; Daniel, M.-C. "Regioselective Assembly of Gold Nanobipyramids and Single Quantum Dot Trimer Architectures for Room-temperature Quantum Information Processing." ACS Fall 2026 Conference, Chicago, IL, August 23-27, 2026.
28. Daniel M.-C. Directed Assembly of Gold Bipyramids and Quantum Dots using Click Chemistry for Plasmon-Exciton Coupling. ACS Fall 2025, Washington, DC, August 17-21, 2025.
29. (Ajiboye L.)^G; Daniel, M.-C. "Directional Assembly of Plasmonic Nanoparticles and Quantum Dots for Energy-Efficient Room-Temperature Quantum Computing." ACS 29th Green Chemistry Conference, Pittsburgh, PA, June 23-26, 2025.
30. (Daniel, M.-C.); Baradaran Kayyal, T. ^G; Thorsen, T. ^U; Marciniak, M. ^G "Dual Role of Dendronized Gold Nanoparticles as both Catalyst and Drug-Loading Core in the Formation of Gold Nanorattles." International Conference Gold 2025, San Sebastian, Spain, May 11-14, 2025.
31. (Dockery L.T.) ^G; Daniel, M.-C. "Targeted Delivery of Doxorubicin to Prostate Cancer Cells using Dendronized Gold Nanoparticles." 263rd ACS National Meeting & Exposition, San Diego, CA, March 2022. In-person oral presentation.
32. (Saha Ray, A.) ^G; Pak, Y.J.; Meares, A. ^G, Swaan, P.; Ptaszek, M.; Daniel, M.-C. "Synthesis of Multifunctional dendronized-gold nanoparticles for bimodal in vivo imaging", 253rd ACS National Meeting, San Francisco, CA; April 2-6, 2017.
33. (Szychowski, B.) ^G; Leng, H. ^G; Pelton, M.; Daniel, M.C. "Synthesis of Au Nanorod – Nanosphere Dimers and their Dramatic Plasmonic Modification after Electron Microscopy", 254th American Chemical Society National Meeting; Washington, DC; August 23, 2017.
34. (Bottoms, J.)^U; Saha Ray, A. ^G; Daniel, M.-C. "Gold Nanoparticle-cored Dendrimers as a Multifunctional Drug Delivery System for Chemotherapy", ERN conference, Washington DC, March 3, 2017.
35. (Ghann, W. E.)^G; Kim, Y.-S.; Xu, S.; Lu, Xin; Smith, M. F.; Gullapalli, R.; Fleiter, T.; Brechbiel, M. W.; Daniel, M.-C. "Bifunctional gold nanoparticles for targeted dual imaging of angiotensin converting enzyme", SPIE Defense, Security and Sensing (Smart Biomedical and Physiological Sensor Technology X), Baltimore, MD, USA, May 1-2, 2013.
36. (Ghann, W. E.)^G; Zabetakis, K.^U; Kumar, S.; Daniel, M.-C, "Effect of high gold salt concentrations on the size and polydispersity of gold nanoparticles prepared by an extended Turkevich-Frens method", 245th ACS National Meeting, New Orleans, Louisiana, April 7-11, 2013.
37. (Grow, M. E.)^G; Daniel, M.-C. "Targeting advanced pancreatic cancer by means of a transferrin functionalized nanoparticle-cored dendrimer", 243rd ACS National Meeting & Exposition, San Diego, CA, USA, March 25-29, 2012.
38. (Grow, M. E.)^G; Daniel, M.-C. "Preparation of a gemcitabine functionalized nanoparticle-cored dendrimer for the treatment of advanced pancreatic cancer," 241st ACS National Meeting & Exposition, Anaheim, CA, USA, March 27-31, 2011.
39. (Ghann, W. E.)^G; Aras, O.; Fleiter, T.; Daniel, M.-C., "Synthesis and biological studies of highly concentrated lisinopril-capped gold nanoparticles for CT tracking of angiotensin converting enzyme (ACE)". SPIE Defense, Security and Sensing (Smart Biomedical and Physiological Sensor Technology VIII), Orlando, FL, USA, April 25-29, 2011.
40. (Pan, H.); Daniel, M.-C. "Studies of MRI relaxivities of gadolinium-labeled dendrons", SPIE Defense, Security and Sensing (Smart Biomedical and Physiological Sensor Technology VIII), Orlando, FL, USA, April 25-29, 2011.
41. (Pan, H.); Daniel, M.-C. "Gadolinium-labeled dendronized gold nanoparticles as new

- targeted MRI contrast agent”, SPIE Defense, Security and Sensing (Smart Biomedical and Physiological Sensor Technology VII), Orlando, FL, USA, April 5-9, 2010.
42. Daniel, M.-C. “Targeted *in-vivo* computed tomography (CT) imaging of tissue ACE using concentrated lisinopril-capped gold nanoparticle solutions”, SPIE Defense, Security and Sensing (Smart Biomedical and Physiological Sensor Technology VII), Orlando, FL, USA, April 5-9, 2010.
 43. Daniel, M.-C. “Preparation of lisinopril-capped gold nanoparticles for molecular imaging of angiotensin-converting enzyme”, SPIE Defense, Security and Sensing (Smart Biomedical and Physiological Sensor Technology VI), Orlando, FL, USA, April 16-17, 2009.
 44. (Daniel, M.-C.); Chen, C.; Dufort, C.; Dixit, S. K.; Huang X.; Quinkert, Z. T.; Dragnea, B. "Virus-like Particles: Development and Potential", 231st ACS National Meeting, San Francisco, CA, USA, September 10-14, 2006.
 45. (Daniel, M.-C.); Chen, C.; Dixit, S. K.; Dragnea, B. "Optimization of Self-assembly of Virus Protein Cages around Gold and Semiconductor Nanoparticles", Pacificchem, Honolulu, USA, December 15-20, 2005.
 46. (Daniel, M.-C.); Ruiz, J.; Astruc, D. "Electrochemical Recognition of H_2PO_4^- using Redox-Active Supramolecular Dendrimers", XII Meeting of the Portuguese Electrochemical Society, Lisbon, Portugal, USA, September 16-20, 2003.

Oral Presentations at Regional Conferences/Symposia (Juried/Refereed)

47. (Baradaran Kayyal, T.)^G and Daniel, M.-C. “Designing Gold Nanorattles Using Dendronized Gold Nanoparticles with Dual Role: Catalyst and Cargo-Carrying Core in Nanorattle Synthesis”, UMBC Chemistry Graduate Research Day. March 2024.
48. (Hoffman, R.)^U; Lowrance, C.M.^G; Daniel, M.-C. Nanoparticle-based sensor for the detection of lead ions in water. UMBC 27th Annual Undergraduate Research and Creative Achievement Day (URCAD), Baltimore, MD, USA, April 12, 2023.
49. (Dockery, L.)^G and Daniel, M.-C. “Synthesis of dendronized gold nanoparticles with acid-labile bonds for controlled delivery of cancer therapeutics.” 50th MARM, ACS, Baltimore, MD, USA, May 30st – June 1st, 2019.
50. (Matar, A.)^U; Saha Ray, A.^G; Daniel, M.-C. “Optimization of Gold Nanoparticles to be used as a Multifunctional drug delivery system for chemotherapy”, Summer Undergraduate Research Feast, UMBC, Baltimore, MD, USA, August 2017 (selected to give a talk).
51. Daniel, MC “Multifunctional Inorganic Nanoparticles for Medical Applications”, Mini-retreat, Cancer Imaging Program, Greenebaum Cancer Center, Baltimore, MD, May 2017.
52. Daniel, M.-C. “New X-ray CT Targeted Nanoparticles for Monitoring of Cardiovascular Diseases”, 2012 Nanotechnology and Engineered Nanomaterials Symposium Baltimore, MD, USA, June 26, 2012.
53. (Grow, M. E.)^G; Daniel, M.-C., “Use of a Transferrin-Functionalized Gold Nanoparticle-Cored Dendrimer for Targeting Advanced Pancreatic Cancer,” 43rd Middle Atlantic Regional Meeting of the ACS, Baltimore, MD, USA, May 31-June 2, 2012,
54. (Daniel, M.-C.), Ghann, W. E.^G; Aras, O.; Gardner, D.^U; Perkins, K.^U; Fleiter, T. “Preparation and Characterization of Lisinopril-capped Gold Nanoparticles for Molecular Imaging of Angiotensin-converting Enzyme using X-ray Computed Tomography.” 43rd MARM, ACS, Baltimore, MD, USA, May 31st – June 2nd, 2012.
55. (Grow, M. E.)^G; Daniel, M.-C., “Targeting Advanced Pancreatic Cancer by Means of a Transferrin-Functionalized Nanoparticle-Cored Dendrimer,” UMBC’s 34th Annual Graduate Research Conference, Baltimore, MD, USA, April 27, 2012.

56. (Ghann W.E.)^G; Daniel, M.-C. Preparation and Characterization of Lisinopril-capped Gold Nanoparticles for Molecular Imaging of Angiotensin-Converting Enzyme using X-Ray Computed Tomography. 34th Annual UMBC Graduate Research Conference, Baltimore, MD, USA, April 27th, 2012.
57. (Geter, P.A.)^U; Grow, M.E.^G; Daniel, M.-C. "Synthesis of Gemcitabine Functionalized Dendron for Treatment of Advanced Pancreatic Cancer," UMBC 15th Annual Undergraduate Research and Creative Achievement Day (URCAD), Baltimore, MD, USA, April 27, 2011.
58. Daniel, M.-C. "Gold Nanoparticles for Targeted Imaging and Drug Delivery", 2011 Nanotechnology and Engineered Nanomaterials Symposium, East Hyattsville, MD, USA, March 2011.
59. (Daniel, M.-C.); Chen, C.; Quinkert, Z. T.; Rotello, V. M.; Kao, C.; Dragnea, B. "Optimization of the Incorporation Efficiency of Gold Nanoparticles Into Brome Mosaic Virus", Indiana Biosensor Symposium, Indianapolis, IN, USA, April 6, 2005.
60. (Daniel, M.-C.); Ruiz, J.; Nlate, S.; Astruc, D. "Assemblies de Metallo dendrons and Gold Nanoparticles used as Electrochemical Sensors", Coordination Chemistry Day of the French Chemical Society, Rennes, France, January 8-9, 2004.
61. (Daniel, M.-C.); Ruiz, J.; Astruc, D. "Utilization of Dendronized Gold Colloids for the Recognition of Anions like H_2PO_4^- and ATP^{2-} ", Symposium of French Chemical Society: Division of Coordination Chemistry. Dendrimères et Nanosciences, Bordeaux, France, March 6-7, 2003.
62. (Daniel, M.-C.); Ruiz, J.; Nlate, S.; Blais, J.-C.; Astruc, D. "Recognition of H_2PO_4^- Anion by Dendronized Gold Nanoparticles", 11th day of French Chemical Society West South, Bordeaux, France, November 10, 2001.

Poster Presentations at National/International Conferences (Juried/Refereed)

63. (Daniel, M.-C.) and Marciniak, M.^G "Stealth Properties of Drug Nanocarriers: The Role of PEG Architecture and Surface Coverage", GRC on Drug Carriers in Medicine & Biology, Portland, ME, USA, August, 2026.
64. (Ajiboye, L.)^G; Pelton, M.; Daniel, M.-C. "Regioselectively Assembled Anisotropic Plasmonic-Quantum Dot Architectures for Strong Light-Matter Coupling", GRC on Noble Metal Nanoparticles, South Hadley, MA, USA, June 2026.
65. (Ajiboye L.)^G and Daniel, M.-C. "Plasmonic coupling through controlled assembly of QD-Gold nanobipyramid (AuNBP) hybrids." NSF IMOD Annual Meeting, 2025. University of Washington, Seattle, WA, August 2025.
66. (Yoo, E.)^{HS}; Ajiboye L.^G; Daniel, M.-C. "Optimizing the Yield of Directionally Assembled Gold Nanobipyramid/Quantum Dot Trimers with Novel Optical Properties", ACS Fall Meeting 2025, Washington, DC, August 17-21, 2025.
67. (Marciniak M.)^G and Daniel, M.-C. "PEGylated Poly(propyleneimine) Dendrons as Camouflaging and Stealth Ligands for the Delivery of Docetaxel Using Gold Nanoparticles", Cancer Nanotechnology Gordon Research Conference. Renaissance Tuscany II Ciocco. Lucca, ITA, June, 2025.
68. (Ajiboye, L. E.)^G, Lowrance, C. M.^G, Baradaran Kayyal, T.^G, Daniel, M.-C. "Discrete Assembly of Gold Nano Bipyramids and CdSe/CdS Quantum Dots for Quantum Technology Applications", NSF STC for the Integration of Modern Optoelectronic Materials on Demand (IMOD) Annual Meeting, Philadelphia, PA, USA, July 29-31, 2024.
69. (Baradaran Kayyal, T.)^G; Thorsen, T.^U; Daniel, M.-C. "Dual Role of Dendronized Nanoparticles in Gold Nanorattle Synthesis as Catalyst and Cargo Carrier", GRC on Noble Metal Nanoparticles, South Hadley, MA, USA, June 16-21, 2024.

70. (Agyako-Wiredu, S.)^U; Baradaran Kayyal, T.^G; Daniel, M.-C. "Synthesis and Analysis of Gold Nanoparticles." Annual Biomedical Research Conference for Minoritized Scientists (ABRCMS), Phoenix, AZ, November 15, 2023.
71. (Marciniak, M.)^G and Daniel, M.-C. "Gold Nanoparticles for diagnostic and targeted HIFU treatment." 21st International Nanomedicine and Drug Delivery Symposium (NanoDDS 23), Boston, MA, September 15-17, 2023
72. (Daniel, M.-C.); Saha Ray, A.^G; Dockery, L.^G "Dendronized gold nanoparticles for the targeted delivery of chemotherapeutic agents." 21st International Nanomedicine and Drug Delivery Symposium (NanoDDS 23), Boston, MA, September 15-17, 2023
73. (Hoffman, R.)^U; Lowrance, C.M.^G; Daniel, M.-C. "Nanoparticle-based sensor for the detection of lead ions in water." Annual Biomedical Research Conference for Minoritized Scientists (ABRCMS), Anaheim, CA. November 2022.
74. (Lowrance, C.M.)^G; Baradaran Kayyal, T.^G and Daniel, M.-C. "Controlled Assembly of Gold Nanobipyramids and CdSe/CdS Quantum Dot", 2022 American Chemical Society National Meeting & Exposition in San Diego, CA. March 2022.
75. (Baradaran Kayyal, T.)^G; Dockery, L.T.; Daniel, M.-C. "Dendronized Gold Nanorattles as Multifunctional Hybrid Nanocarriers", 2022 American Chemical Society National Meeting & Exposition in San Diego, CA. March 2022.
76. (Lowrance, C.M.)^G and Daniel, M.-C. "Coupling of Gold Nanobipyramids and CdSe/CdS Quantum Dot via Amide Linkage", 2019 NOBCCHE Meeting, St Louis, MO, Nov.18-21, 2019.
77. (Dockery, L.)^G and Daniel, M.-C. "Design and Synthesis of a Doxorubicin-PPI Dendron Conjugate Through Acid-labile Bonds", 2019 Cancer Nanotechnology GRC, West Dover, VT, Jun 23 - 28, 2019.
78. (Dockery, L.)^G and Daniel, M.-C. "Synthesis of Dendronized Gold Nanoparticles with Acid-labile Bonds for Controlled Delivery of Cancer Therapeutics", Spring 2019 ACS National Meeting, Orlando, FL, March 31-April 4, 2019.
79. (Dockery, L.)^G and Daniel, M.-C. "Design and synthesis Synthesis of a Doxorubicin-PPI Dendron Conjugate through Acid-labile Bonds", 2018 Gordon Research Conference on Drug Carriers in Medicine and Biology, West Dover, VT, Aug. 12 - 17, 2018.
80. (Njie, A.)^{HS}; Szychowski, B.; Daniel, M.-C. "Synthesis of Gold Nanorods and CdSe Quantum Dots", ACS Fall Meeting 2017, Washington, DC, August 20-22, 2017.
81. (Saha Ray, A.)^G and Daniel, M.-C. "Generation of multifunctional dendronized-gold nanoparticles for theranostic applications", 13th Winter Conference on Medicinal & Bioorganic Chemistry, Steamboat Springs, CO, January 22-26, 2017.
82. (Saha Ray, A.)^G; Pak, Y. J.; Meares, A.^G; Swaan, P.; Ptaszek, M.; Daniel, M.-C. "Study of Cellular Localization and Toxicity of Dendronized Gold Nanoparticles for in-vivo Imaging": 254th ACS National Meeting, Washington, DC., August 21-24, 2017.
83. (Saha Ray, A.)^G; Pak, Y.J.; Swaan, P. and Daniel, M.-C. "Investigation of Stability, Cytotoxicity and cellular Fate of PPI-dendronized –Gold Nanoparticles in MCF-7 Breast Cancer lines" 15th International Nanomedicine and Drug Delivery Symposium, University of Michigan, MI, Sept 21-24, 2017.
84. (Szychowski, B.)^G; Leng, H.^G; Pelton, M.; Daniel, M.C. "Assembly of CdSe quantum dots and gold nanorods into discrete arrangements with unique optical properties." 253rd American Chemical Society National Meeting; San Francisco, CA; April 2-6, 2017.
85. (Saha-Ray, A.)^G; Daniel, M.-C. "Synthesis of Theranostic Gold Nanoparticles for Drug Delivery", 4th International Nanomedicine and Drug Delivery Symposium (NanoDDS 16), Baltimore, MD, September 16-18, 2016.
86. (Szychowski, B.)^G; Catterton, D.^U; Leng, H.^G; Pelton, M.; Daniel, M.-C. "Synthesis of CdSe and Au Nanoparticles Assemblies to Study the Optical Properties of New Hybrid Nanomaterials", GRC on Noble Metal Nanoparticles, South Hadley, MA, USA, June 20-

- 25, 2016.
87. (Ghann, W. E.)^G; Aras, O.; Fleiter, T. Daniel, M.-C. "Lisinopril-coated Gold Nanoparticles as Targeted CT Nanoprobes for Monitoring of Cardiovascular Diseases", 244th ACS National Meeting, Philadelphia, PA, USA, August 19-23, 2012.
 88. (Grow, M. E.)^G; Pan, H.; Ghann, W.E.^G; Daniel, M.-C. "Gold Nanoparticle-cored Dendrimers as Drug Carriers", GRC on Drug Carriers in Medicine & Biology, Waterville Valley, NH, USA, August 12-17, 2012.
 89. (Ghann, W. E.)^G; Gardner, D.^U; Aras, O.; Fleiter, T.; Daniel, M.-C. "Lisinopril-coated Gold Nanoparticles as X-ray Computed Tomography Contrast Agent for Targeting of Angiotensin-Converting Enzyme" GRC on Noble Metal Nanoparticles, South Hadley, MA, USA, June 17-22, 2012.
 90. Pan, H.; (Daniel, M.-C.) "Construction of Multifunctional Gold Nanoparticles for Targeted Combination Therapy of Hormone Refractive Prostate Cancer", 2011 Innovative Minds in Prostate Cancer Today (IMPACT) Conference, Orlando, FL, USA, March 9-12, 2011.
 91. Grow, M. E.^G; Wilson, O. M.; Bednarek, M.^U; Houpt, J.^U; (Daniel, M.-C.) "New dendron for drug delivery applications", GRC on Drug Carriers in Medicine & Biology, Big Sky, MT, USA, August 24-29, 2008.
 92. (Quinkert, Z. T.); Daniel, M.-C.; Dragnea, B. "Synthesis and Characterization of mixed monolayer Gold Nanoparticles for use in the Investigation of the Effect of Charge Density on Virus-like Particles", 231st ACS National Meeting, San Francisco, CA, USA, September 10-14, 2006.
 93. (Daniel, M.-C.); Quinkert, Z. T.; Kao, C.; Dragnea, B. "Asymmetric Gold Dimers Models for Electromagnetic Enhancement Theories", Pacificchem, Honolulu, USA, December 15-20, 2005.
 94. (Daniel, M.-C.); Ruiz, J.; Nlate, S.; Astruc, D. "Gold-Cored Dendrimers as Exoreceptors for the Electrochemical Recognition of Biologically Important Anions", IVth International Dendrimer Symposium, Mount Pleasant, MI, USA, May 18-21, 2005.
 95. (Daniel, M.-C.); Ruiz, J.; Astruc, D. "Electrochemical Recognition of H₂PO₄⁻ using Redox-Active Supramolecular Dendrimers", XII Meeting of the Portuguese Electrochemical Society, Lisbon, Portugal, September 16-20, 2003.
 96. (Daniel, M.-C.); Ruiz, J.; Nlate, S.; Blais, J.-C.; Astruc, D. "Recognition of H₂PO₄⁻ Anion with Dendronized Gold Nanoparticles", XXth International Conference on Organometallic Chemistry, Corfu, Greece, July 7-12, 2002.

Poster Presentations at Regional Conferences (Juried/Refereed)

97. (Lemi, T.)^U; Ajiboye, I.^G; Daniel, M.-C. "Preparation of Directed Discrete Assemblies of Gold Nanobipyramids and Quantum Dots", Undergraduate Research and Creative Achievement Day, University of Maryland, Baltimore County, MD, April, 2026.
98. (Agyako-Wiredu, S.)^U; Marciniak, M.^G; Daniel, M.-C, "Synthesis of Riboflavin-Functionalized Gold Nanorattles as Targeted Drug Delivery Platform", Undergraduate Research and Creative Achievement Day, University of Maryland, Baltimore County, MD, April, 2026.
99. (Marciniak M.)^G; Daniel, M.-C. "Gold Nanoparticle Surface Fouling in Filtered Whole Mouse Blood using Branched versus Linear PEG Ligands", UMBC Chemistry and Biochemistry Graduate Research Day. University of Maryland, Baltimore County. Baltimore, MD, March, 2026.
100. (Ajiboye, L.)^G; Pelton, M.; Daniel, M.-C. "Optimizing the Yield of Directionally Assembled Gold Nanobipyramid-Quantum Dot Trimers for Enhanced Plasmon-Exciton Coupling", 2026 UMBC Chemistry and Biochemistry Graduate Research Day, UMBC, MD, March, 2026.

101. (Roberts, A.)^G and Daniel, M.-C. "Towards the Coupling of Doxorubicin to Dendronized Gold Nanorattles", 2026 UMBC Chemistry and Biochemistry Graduate Research Day, University of Maryland, Baltimore County. Baltimore, MD, March, 2026.
102. (Marciniak M.)^G and Daniel, M.-C. "Stealth Gold Nanoparticles: Development of a Branched PEGylated Coating for Systemic Drug Delivery Applications", 14th Annual Center for Targeted Therapeutics and Translational Nanomedicine Symposium. Perelman School of Medicine, University of Pennsylvania. Philadelphia, PA, December, 2025.
103. (Agyako-Wiredu, S.)^U; Roberts, A.^G; Baradaran Kayyal, T.^G; Daniel, M.-C, "Quantifying Release of Doxorubicin from Dendronized Gold Nanorattles using Fluorescence Spectroscopy". Summer Undergraduate Research Fest, The University of Maryland, Baltimore County, MD, August 6th, 2025.
104. (Agyako-Wiredu, S.)^U; Roberts, A.^G; Baradaran Kayyal, T.^G; Daniel, M.-C, "Dendronized Gold Nanorattles Loaded with Doxorubicin as a Drug Delivery Platform." APSA Mid-Atlantic Regional Conference 2025, University of Pennsylvania, PA, June, 2025.
105. (Marciniak M.)^G and Daniel, M.-C. "Stealth Gold Nanoparticles: Development of a Branched PEGylated Coating for Systemic Drug Delivery Applications", Frontiers at the Chemistry-Biology Interface Symposium. Bloomberg School of Public Health, Johns Hopkins University. Baltimore, MD, May, 2025.
106. (Ajiboye L.)^G and Daniel, M.-C.. "Directed Formation of Gold Nano Bipyramids and Quantum Dots trimers for Quantum Technology Applications." UMBC GEARS Research Symposium, 2025, UMBC, MD, April, 2025.
107. (Al-Anesi, J.)^U; Ajiboye, L.^G; Daniel, M.-C. "Gold Nanoparticle-Based Microfluidic Device for Lead Sensing in Tap Water", UMBC 29th Annual Undergraduate Research and Creative Achievement Day (URCAD), Baltimore, MD, USA, April 2025.
108. (Nowell, P.)^U; Marciniak, M.^G; Daniel, M.-C. "Functionalizing Gold Nanoparticles With Gadolinium Chelated Dendrons", UMBC 29th Annual Undergraduate Research and Creative Achievement Day (URCAD), Baltimore, MD, USA, April 2025.
109. (Agyako-Wiredu, S.)^U; Roberts, A.^G; Baradaran Kayyal, T.^G; Daniel, M.-C, "Dendronized Gold Nanorattles Loaded with Doxorubicin as a Drug Delivery Platform." UMBC 29th Annual Undergraduate Research and Creative Achievement Day (URCAD), Baltimore, MD, USA, April 2025.
110. (Marciniak, M.)^G and Daniel, M.-C. "Synthesis of Dendronized Gold Nanoparticles Bearing Docetaxel and an Antibody Fragment for Targeted Chemotherapy of Metastatic Prostate Cancer", 17th Annual Frontiers at the Chemistry & Biology Interface Symposium (FCBIS 2024), University of Maryland Baltimore County, MD, May 4, 2024.
111. (Nowell, P.)^U; Marciniak, M.^G; Daniel, M.-C. "Functionalizing Dendrons with Gadolinium for Enhanced MRI Contrast," UMBC 28th Annual Undergraduate Research and Creative Achievement Day (URCAD), Baltimore, MD, USA, April 10, 2024.
112. (Hoffman, R.)^U and Daniel, M.-C. "Nanoparticle-Based Sensor for the Detection of Lead Ions in Water", UMBC 28th Annual Undergraduate Research and Creative Achievement Day (URCAD), Baltimore, MD, USA, April 10, 2024.
113. (Agyako-Wiredu, S.)^U; Baradaran Kayyal, T.^G; and Daniel, M.-C. "Fluorophore-Modified Self-Assembled Monolayers on Gold Films" UMBC 28th Annual Undergraduate Research and Creative Achievement Day (URCAD), Baltimore, MD, USA, April 10, 2024.
114. (Ajiboye, L.)^G and Daniel, M.-C. "Discrete Assembly of Gold Nano Bipyramids and CdSe/CdS Quantum Dots for Quantum Technology Applications", UMBC Chemistry Graduate Research Day. March 1, 2024.

115. (Marciniak, M.)^G and Daniel, M.-C. "From Liters to Milliliters: Synthesis of Highly Concentrated Prostate Cancer Targeting Gold Nanoparticles for High-Intensity Focused Ultrasound", UMBC Chemistry Graduate Research Day. March 1, 2024.
116. (Agyako-Wiredu, S.)^U; Baradaran Kayyal, T.^G; Daniel, M.-C. "Synthesis and Analysis of Gold Nanoparticles," Summer Undergraduate Research Feast, UMBC, Baltimore, MD, August 2023.
117. (Marciniak, M.)^G and Daniel, M.-C. "Synthesis of Gadolinium (III) Bearing Dendron and Development of an MRI Contrast Agent Nanoplatfrom", 16th Annual Frontiers at the Chemistry & Biology Interface Symposium (FCBIS 2023), University of Maryland, School of Pharmacy, MD, May 20, 2023.
118. (Thorsen, T.)^U; Baradaran Kayyal, T.^G; and Daniel, M.-C. "The Preparation and Characterization of Cisplatin-Loaded Gold Nanorattles." UMBC 27th Annual Undergraduate Research and Creative Achievement Day (URCAD), Baltimore, MD, USA, April 12, 2023.
119. (Marciniak, M.)^G and Daniel, M.-C. "Synthesis of Gadolinium (III) Bearing Dendron and Development of an MRI Contrast Agent Nanoplatfrom", UMBC Chemistry Graduate Research Day. March 2023.
120. (Lowrance, C.M.)^G; Baradaran Kayyal, T.^G; and Daniel, M.-C. "Synthesis, Assembly, and Isolation of AuBP-QD-AuBP Trimers", UMBC Chemistry Graduate Research Day. March 2023.
121. (Baradaran Kayyal, T.)^G; Lowrance, C.M.^G; and Daniel, M.-C. "Facile Single-Phase Method for Efficient Transfer of Oleic Acid Capped Nanoparticles from Organic to Aqueous Media", UMBC Chemistry Graduate Research Day. March 2023.
122. (Hoffman, R.)^U; Lowrance, C.M.^G; Daniel, M.-C. "Nanoparticle-based sensor for the detection of lead ions in water." Summer Undergraduate Research Feast, UMBC, Baltimore, MD, August 2022.
123. (Watts-Ouattara, I.)^U; Dockery, L.^G; Daniel, M.-C. "Synthesis of Bifunctional Gold Nanoparticles for Combination Chemotherapy", UMBC 22nd Annual Undergraduate Research and Creative Achievement Day (URCAD), Baltimore, MD, USA, April 2022.
124. (Lowrance, C.M.)^G; Baradaran Kayyal, T.^G; and Daniel, M.-C. "Controlled Assembly of Gold Nanobipyramids and CdSe/CdS Quantum Dot", UMBC Chemistry Graduate Research Day. March 2022.
125. (Dockery, L.)^G and Daniel, M.-C. "Stimuli-Responsive Dendronized Gold Nanoparticles for Targeted Doxorubicin Delivery to Prostate Cancer Cells", UMBC Chemistry Graduate Research Day. March 2022.
126. (Lowrance, C.M.)^G and Daniel, M.-C. "Controlled Formation of Silica on Noble Metal and Semi-Conducting Nanoparticles for Assembly via Siloxane Linkage", UMBC Chemistry Graduate Research Day, Baltimore, MD, March 2020.
127. (Lowrance, C.M.)^G and Daniel, M.-C. "Coupling of Gold Nanobipyramids and CdSe/CdS Quantum Dot via Amide Linkage", Graduate Experience, Achievements, and Research Symposium (GEARS), Baltimore, MD, March 27, 2019.
128. (Lowrance, C.M.)^G and Daniel, M.-C. "Synthesis of a Gold Nanobipyramid – CdSe/CdS Quantum Dot Dimer via Amide Linkage", 50th MARM, ACS, Baltimore, MD, USA, May 30st – June 1st, 2019.
129. (Wessel, M.)^U; Dockery, L.^G; Oladunni, O.^U; Daniel, M.-C. "Synthesis of Gadolinium-Containing Dendrons for Enhanced Magnetic Resonance Imaging", UMBC 23rd Annual Undergraduate Research and Creative Achievement Day (URCAD), Baltimore, MD, USA, April 2019.
130. (Suzich, R.)^U; Saha Ray, A.^G; Daniel, M.C. "Relative Adsorption of Amine and Carboxylate Terminated PPI Dendrons to Gold Nanoparticles". Summer Undergraduate Research Feast, UMBC, Baltimore, MD, August 2018.

131. (Saha Ray, A.)^G; Pak, Y.J.; Gu, Q.; Joglekar, T.; Zaw, M.M.; Bieberich, C.; Zhu, L.; Swaan, P.; Daniel, M.-C. "Study of stability, toxicity and cellular localization of dendronized gold nanoparticles for in vitro (MCF-7) and in vivo xenograft (PC-3) mice models" 11th Annual Frontiers at the Chemistry & Biology Interface Symposium (FCBIS 2018), The University of Pennsylvania, PA, May 5, 2018.
132. (Matar, A.)^U; Saha Ray, A.^G; Daniel, M.-C. "Optimization of Gold Nanoparticles to be used as a Multifunctional drug delivery system for chemotherapy", Summer Undergraduate Research Feast, UMBC, Baltimore, MD, August 2017.
133. (Saha-Ray, A.)^G; Pak, Y., Meares, A.; Peter, S.; Ptaszek, M.; Daniel, M.-C., "Synthesis of multifunctional dendronized-gold nanoparticles for bimodal in vivo imaging," 10th annual Frontiers in chemistry Biology Interface, Delaware, DE, May 6, 2017.
134. (Bottoms, J.)^U; Saha Ray, A.^G; Daniel, M.-C. "The Development of Gold Nanoparticle-cored Dendrimers as a Multifunctional Drug Delivery System for Chemotherapy," Summer Undergraduate Research Feast, UMBC, Baltimore, MD, USA, August 2016.
135. (Catterton, D.)^U; Szychowski, B.^G; Daniel, M.-C. "Synthesis of CdSe and Au Nanoparticles Assemblies to Study the Optical Properties of New Hybrid Nanomaterials", UMBC 20th Annual Undergraduate Research and Creative Achievement Day (URCAD), Baltimore, MD, USA, April 2016.
136. (Taylor, D.)^U; Ghann, W.E.^G; Daniel M.-C. "Synthesis of Multifunctional Gold Nanoparticles For Targeting Angiotensin-Converting Enzyme", UMBC 20th Annual Undergraduate Research and Creative Achievement Day (URCAD), Baltimore, MD, USA, April 2016.
137. (Saha Ray, A.)^G; Szychowski, B.^G; Daniel, M.-C. "Multifunctional Inorganic Nanoparticles for Medical and Materials Applications," UMBC's A Look-Ahead XiX Life Science Symposium, Baltimore, MD, USA. April 2016.
138. (Catterton, D.)^U; Szychowski, B.^G; Daniel, M.-C. "Synthesis of CdSe and Au Nanoparticles Assemblies to Study the Optical Properties of New Hybrid Nanomaterials", UMBC Undergraduate Research Symposium, Baltimore, MD, October 2015.
139. (Szychowski, B.)^G; Allec, N.; Choi, M.^G; Yesupriya, N.^U; White, M.^G; Kann, M.; Garcin, E.; Daniel, M.-C.; Badano, A. "Synthesis of molecularly-bridged gold nanoparticle dimers to mimic protein-protein interactions." 8th Frontiers at the Chemistry-Biology Interfacce Symposium; Baltimore, MD, May 16, 2015.
140. (Ghann, W. E.)^G; Saha Ray, A.^G; Szychowski, B.^G; Parker, C.^U; Bright, E.^U; Perkins, K.^U; Tsoi, P.^U; Pruitt, M.^U; Wilson, J.^U; Daniel, M.-C. "Gold Nanoparticle-Based Platforms for Theranostic and Multimodal Imaging Applications," UMBC's A Look Ahead XVI Life Science Symposium, Baltimore, MD, USA, April 17, 2013.
141. (Ghann, W. E.)^G; Daniel, M.-C. "Preparation and Characterization of Lisinopril-capped Gold Nanoparticles for Molecular Imaging of Angiotensin-Converting Enzyme using X-Ray Computed Tomography." 6th Annual MIRTHER Summer Workshop, UMBC, Baltimore, MD, USA, August 5-10, 2012.
142. (Grow, M. E.)^G; Daniel, M.-C. "Use of a transferrin-functionalized gold nanoparticle-cored dendrimer for targeting advanced pancreatic cancer", 43rd Middle Atlantic Regional Meeting of the ACS, Baltimore, MD, USA, May 31-June 2, 2012.
143. (Ghann, W. E.)^G; Aras, O.; Gardner, D.^U; Perkins, K.^U; Fleiter, T.^U; Daniel, M.-C. "Preparation and characterization of lisinopril-capped gold nanoparticles for molecular imaging of angiotensin-converting enzyme using X-ray computed tomography." 43rd Middle Atlantic Regional Meeting of the American Chemical Society, Baltimore, MD, USA, May 31-June 2, 2012.
144. (Ghann, W. E.)^G; Aras, O.; Gardner, D.^U; Perkins, K.^U; Fleiter, T.; Daniel, M.-C. "Preparation and Characterization of Lisinopril-capped Gold Nanoparticles for Molecular Imaging of Angiotensin-Converting Enzyme using X-Ray Computed Tomography", Fifth

- Annual Frontiers at the Chemistry-Biology Interface Symposium, Philadelphia, PA, USA, April 28, 2012.
145. (Geter, P. A.)^U; Grow, M. E.^G; Daniel, M.-C. "Synthesis of Gemcitabine Functionalized Dendron for Improvement of Advanced Pancreatic Cancer Treatment," UMBC 16th Annual Undergraduate Research and Creative Achievement Day (URCAD), Baltimore, MD, USA, April 25, 2012.
 146. (Parker, C. L.)^U; Grow, M. E.^G; Daniel, M.-C. "Synthesis of Transferrin Functionalized Dendron for Targeting Advanced Stages of Cancer," UMBC 16th Annual Undergraduate Research and Creative Achievement Day (URCAD), Baltimore, MD, USA, April 25, 2012.
 147. (Grow, M. E.)^G; Ghann, W. E.^G; Geter, P.^U; Gardner, D.^U; Parker, C.^U; Perkins, K.^U; Tongo, E.^U; Daniel, M.-C. "Cancer Nanotheranostics and Heart Disease Monitoring Using Gold Nanoparticles," UMBC's A Look Ahead XV Life Science Symposium, Baltimore, MD, USA, April 18, 2012.
 148. (Grow, M. E.)^G; Pan, H.; Bednarek, M.^U; Daniel, M.-C. "A Multifunctional Nanoparticle-Cored Dendrimer for the Treatment of Pancreatic Cancer," UMBC's 32nd Annual Graduate Research Conference, Baltimore, MD, USA, April 30, 2010.
 149. (Bednarek, M.)^U and Daniel, M.-C. "Optimization of Drug Nanocarriers *via* the Construction of a Stealth Dendron." UMBC's Undergraduate Research and Creative Achievement Day, Baltimore, MD, USA, April 28, 2010.
 150. (Grow, M. E.)^G; Pan, H.; Bednarek, M.^U; Daniel, M.-C. "A Multifunctional Nanoparticle-Cored Dendrimer for the Treatment of Pancreatic Cancer," Johns Hopkins University Applied Physics Laboratory (JHU/APL) Applied Nanotechnology Community of Practice Nanomaterials Symposium, Laurel, MD, USA, April 19, 2010. (**2nd Place Poster Award**)
 151. (Grow, M. E.)^G; Pan, H.; Ghann, W. E.^G; Bednarek, M.^U; Baeta, C.^U; Vu, C.^U; Daniel, M.-C. "Multifunctional Gold Nanoparticles for Targeted Treatment and Imaging," UMBC's A Look Ahead XIII Life Science Symposium, Baltimore, MD, USA, March 31, 2010.

SERVICE

Service to the Department

- Summer 2026 General Chemistry Teaching Faculty Search Committee (Member)
- Fall 2022 – Present Upper-level Laboratory Curriculum Committee (Member)
- Fall 2015 – Present Graduate Program Director, Chemistry
- Fall 2015 – Present Graduate Progression Committee (Chair)
- Fall 2024 Promotion and Tenure Committee, 3rd Year Review (Chair)
- Spring 2024 Guest Lecturer in CHEM 102 course
- Fall 2023 Graduate Program Coordinator Search Committee (Chair)
- Fall 2023 Promotion and Tenure Committee, 3rd Year Review (Chair)
- Fall 2023 Guest Lecturer in CHEM 101H course
- Spring 2023 & Spring 2026 Five Year Post Tenure Review Committee (Chair)
- Spring 2023 Guest Lecturer in CHEM 102H course
- Fall 2022 Toxicological Faculty Search Committee (Member)
- Fall 2021 Graduate Program Coordinator Search Committee (Member)
- April 2020 – Dec 2021 COVID-19 Research Safety Committee (Chair)

- Summer 2018 Guest Speaker for REU program
- Spring 2016 Guest Lecturer in CHEM 455 course
- Fall 2014 Guest Lecturer in CHEM 101H course
- Spring 2014 UMBC-UMB Research and Innovation Retreat Committee (Chair)
- Fall 2013 Analytical Faculty Search Committee (Member)
- Fall 2012 – Fall 2014 Graduate Admission Committee (Member)
- Fall 2011 – Spring 2015 Graduate Progression Committee (Member)
- Fall 2011 Inorganic Faculty Search Committee (Member)
- Fall 2010 Analytical Faculty Search Committee (Member)
- Fall 2009 – Spring 2015 Undergraduate Instruction/Assessment Committee (Member)
- Fall 2009 – Spring 2011 Graduate Student Recruiting Committee (Member)
- Fall 2008 – Spring 2009 Departmental Seminar Series (Chair)

List of Ph.D. Student Committees (77) served/serving on (other than as committee Chair):

- Maria Pilar Zaballa degree expected in 2030
- Korin Murray degree expected in 2030
- Sadkishya Dhakal degree expected in 2030
- Jason Smith degree expected in 2030
- Oliver Paszkowski degree expected in 2029
- Bethel Beyene degree expected in 2029
- Durga Devkota degree expected in 2028
- Kyle Davis degree expected in 2028
- Vaibhav Ginoya degree expected in 2028
- Nimalee Jayasekera degree expected in 2028
- Megan Bauer degree expected in 2028
- Trisha De Jesus degree expected in 2027
- Peng Yan degree expected in 2026
- Haotian Wu degree expected in 2026
- Lahari Saha degree expected in 2026
- Leopoldo Posada Escobar degree expected in 2026
- Charles Waters received Ph.D. degree in May 2026
- Hasan Al Banna received Ph.D. degree in May 2026
- Manju Ojha received Ph.D. degree in May 2026
- Kayry Segarra received Ph.D. degree in April 2026
- Md Masum Talukder received M.S. degree in Aug. 2025
- Christianna Kutz received Ph.D. degree in Aug 2025
- Daniel Pierce received Ph.D. degree in April 2025
- Vijin Kizhake Veetil received Ph.D. degree in Dec 2024 (Physics Department)
- John Teller received Ph.D. degree in Dec 2024
- Amanda Belunis received Ph.D. degree in Aug 2024
- Joy Thames received Ph.D. degree in July 2024
- Shreyasi Sengupta received Ph.D. degree in June 2024
- Tao Zhang received Ph.D. degree in Dec 2023
- Curtis Jones received Ph.D. degree in Oct. 2023

– Connor Riahin	received Ph.D. degree in Aug. 2023
– Ciara Pitman	received Ph.D. degree in April 2022
– Josh Moskovitch	received Ph.D. degree in Feb. 2021
– Erin Kennedy	received Ph.D. degree in Sept. 2020
– Zheng Zheng	received Ph.D. degree in July 2020
– Richard Brown	received Ph.D. degree in July 2020
– Evgenia Barannikova	received Ph.D. degree in May 2020
– Scott Riley	received Ph.D. degree in May 2020
– Adam Meares	received Ph.D. degree in Feb. 2020
– Mary Yates	received Ph.D. degree in Aug. 2019
– Jacquelyn Audino	received Ph.D. degree in Sept. 2019
– Brian Cawrse	received Ph.D. degree in July 2019
– Tonya Santaus	received Ph.D. degree in May 2019
– Alex Winton	received Ph.D. degree in Dec. 2018
– Joseph Sparenberg	received M.S. degree in Dec. 2018
– Haixu Leng	received Ph.D. degree in Nov. 2018 (Physics Department)
– Christian Toonstra	exited program to follow his advisor to UMCP
– Therese Ku	received Ph.D. degree in June 2018
– William Cunning	received Ph.D. degree in Aug. 2017
– Ester Sesmero	received Ph.D. degree in May 2017
– Michael White	received Ph.D. degree in Dec. 2016
– Rachel Schmitz	received Ph.D. degree in Nov. 2016
– Pietro Strobbia	received Ph.D. degree in Aug. 2016
– Andrea Gray	received Ph.D. degree in July 2016
– Hannah Peters	received Ph.D. degree in Oct. 2015
– Thao Tran	received Ph.D. degree in Aug. 2015
– Sadika Maharjan	received M.S. degree in Dec. 2014
– Brittany Avaritt	received Ph.D. degree in Sept. 2014 (School of Pharmacy, UMB)
– Melissa Davila Morris	received M.S. degree in Aug. 2014
– Andrew Brown	received Ph.D. degree in Jan. 2014
– Samuel Haile	received Ph.D. degree in Nov. 2013 (Biology Department),
– Steve Manning	received Ph.D. degree in Feb. 2013
– Jeffrey Kendall Brown	received Ph.D. degree in Oct. 2012 (Biology Department),
– Kartik Temburnikar	received Ph.D. degree in Sept. 2012
– Charles Klutse	received Ph.D. degree in April 2012
– Jennifer Fedorowski	received Ph.D. degree in April 2012
– Stacey Ambuehl	exited program
– Tijesunimi Odebode	exited program
– Saritha Tantravedi	received Ph.D. degree in April 2012
– Margaret Dabek	received Ph.D. degree in April 2012
– Min Xie	received Ph.D. degree in Sept. 2011
– Orrette Wauchope	received Ph.D. degree in Oct. 2011
– Sonnet Davis	received Ph.D. degree in April 2011
– Haohao Ke	exited program
– Miguel Angel Mendez	received Ph.D. degree in Aug. 2010
– William Motel	received Ph.D. degree in Sept. 2010
– Joshua Sadler	received Ph.D. degree in April 2009

Service to the College and University

- Sept. 2025 – Present Global Engagement Advisory Council (Member)
- Sept. 2024 – Present COMPASS (Committee on Optimizing Mentoring Practices and Advancing Student Success) Fellow
- Jan, 2024, 2025 & 2026 Assistant master of ceremonies of a homeroom during the Science Olympiads Invitationals
- Nov. 2022 – Present Member of the CNMS Awards and Recognition Committee
- Nov. 2022 Panelist at the session "Conducting Research in a foreign environment"
- July 2022 Panelist at the UMBC Horizons
- July 2022 Panelist at "Building a bridge to STEM faculty"
- January 2020 Member of the CNMS Research Infrastructure Task Force
- March 2018 Guest Lecturer in the Department of Chemical, Biochemical and Environmental Engineering (ENCH 693)
- Nov. 2017 – May 2018 Member of Committee of Inquiry
- Nov. 2017 Speaker at an Interdisciplinary Activities Faculty Social Hour
- Sept. 2016 Panelist/Speaker at the "Ask the Experts" panel on Advances in Medicine and Medical Technology at the UMBC 50th Anniversary
- Nov 2015- March 2016 Member of the Search Committee for the Manager of the Keith Porter Imaging Facility
- Oct. 2015 Member of the SREB (Southern Regional Education Board) Recruiting Team
- Sept. 2013 – May 2015 Member of the Task Force for Interdisciplinary Studies
- Oct, 2013 Member of the SREB Recruiting Team
- Sept. 2013 – May 2018 Entrepreneurship Faculty Fellow
- January 2012 Panelist at the session "University Settings in Different Countries" part of the "Professors Beyond Borders" series
- October 2008 - 2011 Judge at the UMBC Undergraduate Research Symposium
- September 2008 Panelist at the "Provost's Luncheon" for new faculty

Service to the Community and to the Profession

- 2026 Discussion Leader for the session on Synthesis of Nanoparticles and Nanostructures at the Gordon Research Conference (GRC) on Noble Metal Nanoparticles, Portland, ME.
- 2023 Judge at the Science Fair at Divine Mercy Academy, MD
- 2023 Speaker at the Woodmoor Elementary's World Cultures Week (MD)
- 2022 Judge at the Science Fair at Divine Mercy Academy, MD
- 2015 Participation (as a speaker) to the Women Serious About Science (WSAS) program at the Baltimore Polytechnic Institute
- 2013 – present Participation (as a mentor) to the Project SEED program of the American Chemical Society

- 2013 Session Chair: “Multispectral Imaging Agents and Systems for Tissue Diagnostics”, Smart Biomedical and Physiological Sensor Technology X Conference; SPIE Defense, Security and Sensing; Baltimore, MD, USA
- 2013 Participation as a speaker to the Women Serious About Science (WSAS) program at the Baltimore Polytechnic Institute
- 2012 Session Chair: “Nanotechnology”; 43rd Middle Atlantic Regional Meeting of the American Chemical Society, Baltimore, MD, USA,
- 2010 Session Chair: “Novel Materials for Sensing and Imaging”, Smart Biomedical and Physiological Sensor Technology Conference; SPIE Defense, Security and Sensing; Orlando, FL, USA
- 2009 Session Chair: “Nanoscience in Biomedicine, Smart Biomedical and Physiological Sensor Technology Conference, SPIE Defense, Security and Sensing; Orlando, FL, USA

Proposal Reviewer for:

- National Institute of Health (Panel)
- National Science Foundation (Panels and Ad-Hoc)
- Swiss National Science Foundation (SNSF)
- Maryland Industrial Partnerships (MIPS) Program
- ANR (National Agency for Research, France)
- UMB-UMBC Research and Innovation Partnership Grant Program

Affiliations:

- 2008 – Present Experimental Therapeutics Program in Oncology, University of Maryland Greenebaum Cancer Center, Baltimore, MD.
- 2007 – Present American Chemical Society
- 2007 – 2012 American Association for Cancer Research
- 2009 – 2014 Society of Photo-Optical Instrumentation Engineers (SPIE)

Manuscript Reviewer for:

- | | |
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| – Accounts of Chemical Research | – Journal of Physical Chemistry |
| – Cancer Research | – RSC Advances |
| – Chemical Communications | – Journal of Scientific Research and Reports |
| – Langmuir | – Organic and Biomolecular Chemistry |
| – Journal of Nanoparticle Research | – Scientific Reports |
| – Biopolymers | – Metals |
| – ACS Applied Materials & Interfaces | – Nanomaterials |
| – ACS Nano | – Nanoscale |
| – Analytical Bioanalytical Chemistry | – Journal of Materials Chemistry B |
| – Nanomedicine | – Polymers |
| – Chemical Society Reviews | – Molecules |
| – Journal of American Chemical Society | |

I certify that this document is accurate and true.

A handwritten signature in black ink, appearing to read 'Daniel', with a stylized flourish extending from the end.

Marie-Christine Daniel

September 15, 2026