
Alicia Manjón Sanz, Ph. D.Email: manjonsanzam@ornl.govORCID: <https://orcid.org/0000-0002-7091-3484>

EDUCATION

- 2015 **Ph.D.** in Chemistry with specialization in Synthesis, Structure and Properties of Bismuth Based Electroceramic Perovskites, **The University of Liverpool**, United Kingdom.
Supervisor: Matthew Rosseinsky.
- 2008 **Licenciatura** in Chemistry, **Universidad Autónoma de Madrid**, Spain.

PROFESSIONAL APPOINTMENTS / EMPLOYMENT

- 2020 – **Instrument Scientist**, Neutron Scattering Division, **Oak Ridge National Laboratory**, United States.
- 2018 – 2020 **Postdoctoral Research Associate**, Experiments Division, **CELLS**, ALBA Synchrotron Light Facility, Spain.
- 2015 – 2018 **Postdoctoral Scholar**, Department of Chemistry, **Oregon State University**, United States.
Advisor: Michelle Dolgos.
- 2012 – 2014 **Research Fellow**, Structural Materials Science Laboratory, **RIKEN**, SPring-8, Japan.
Supervisor: Masaki Takata.
- 2009 – 2010 **Industrial Researcher**, Institute of Catalysis and Petrochemistry, **Consejo Superior de Investigaciones Científicas (CSIC)**, Spain.
Supervisors: Manuel Sánchez-Sánchez and Enrique Sastre de Andrés.

AWARDS / FELLOWSHIPS

- 2024 – 2026 Oak Ridge National Laboratory Early Career Development Program (\$300K).
- 2023 Neutron Sciences Division Award, category: “Doing it Better 2023”.
- 2016 Gordon Research Conference Travel Award (\$500).
- 2012 – 2014 International Program Associate fellowship, RIKEN Project.
- 2011 – 2012 Marie Curie Early Stage Researcher fellowship, SOPRANO Project.
- 2009 – 2010 Funding from Destilerías Muñoz Gálvez S.A. (company).

FUNDING

“Materials for Energy and Sustainability: Structure, properties, and materials in action”, **Alicia Manjón Sanz** (P.I), Oak Ridge National Laboratory, (\$300K) 2024-2026.

“Structural characterization of piezoelectric materials using high pressure diffraction and total scattering techniques”, **Alicia Manjón Sanz** (P.I.), Catalin Popescu, François Fauth, ALBA, (15K€) 2019-2021.

PUBLICATIONS

* Denotes corresponding author

- (30) Molina Esquinas, A.; **Manjón-Sanz, A.**; Díaz, I.; Sastre, E.; Blanco, R. M.; Sánchez-Sánchez, M., “Pair Distribution Function (PDF) studies on Enzyme@MOF composites”, *Manuscript in preparation*.
- (29) **Manjón-Sanz, A.** *; Neill, A.; Dolgos, M. “Examining the Structure-property Relationships of BaZr_{0.2}Ti_{0.8}O_{3-x}Ba_{0.7}Ca_{0.3}TiO₃ Based Lead-free Piezoelectric Materials Using Powder Diffraction”, *Manuscript in preparation*.
- (28) Moy, A. C.; **Manjón-Sanz, A.**; Caracciolo, T.; Maxim V. Lobanov, M. V.; Veith, G. V.; Sakamoto, J.; “Effects of Al Concentration on the Structure and Conductivity of Li₇La₃Zr₂O₁₂”, *to be submitted to Advanced Materials*.
- (27) Pramanik, T.; Htet, C. S.; Liu, J.; Ullah, S.; Kong, J.; Misture, S.; **Manjón-Sanz, A.***; Pramanick, A.*, “An atomistic structural description of the ferroelectric polar phase” *to be submitted to Advanced Functional Materials*.
- (26) Surta, T. W.; Keeney, L.; **Manjón-Sanz, A.**; Crawford, C.; Morscher, A.; Daniels, L. M.; Claridge, J. B.; Bell, A. J.; Alaria, J.; Rosseinsky, M. J., “Separation of K⁺ and Bi³⁺ displacements in a Pb-free, monoclinic piezoelectric at the morphotropic phase boundary” *Acta Materialia*, 265 (2024) 15, 119594-1 – 119594-13.
- (25) Htet, C. S.; **Manjón-Sanz, A.**; Liu, J.; Babori, C.; Barati, M.; Marlton, F.; Daniel, L.; Jørgensen, M. R. V.; Pramanick, A., “Local structural mechanism for enhanced energy storage properties in heterovalent doped NaNbO₃ ceramics” *J. Eur. Ceram. Soc.*, 44, (2023) 3, 1597-1609.
- (24) Roh, J.; Do, N.; **Manjón-Sanz, A.**; Hong, S. T. “Li₂GeS₃: Lithium Ionic Conductor with Unprecedented Structural Type”, *Inorganic Chemistry*, 62 (2023) 39, 15856-15863.
- (23) Katragadda, N.; Mandal, P.; Yanda, P.; Sundaresan, A.; Kaushik, S. D.; Zhang, W.; Halasyamani, P. S., “Room temperature Polar and Weak-ferromagnetic Oxide with Low Dielectric Loss”, *Mater. Sci. Eng. B.*, 298, (2023) 116869-1 – 116869-7.
- (22) Brown, A. J.; Avdeev, M.; **Manjón-Sanz, A.**; Brand, H. E. A.; Ling, C. D., “Competing Magnetic Interactions and the Role of Unpaired 4f Electrons in Oxygen-Deficient Perovskites Ba₃RFe₂O_{7.5} (R = Y, Dy)”, *Inorganic Chemistry*, 62, (2023) 17, 6786-6793.
- (21) Kong, J.; **Manjón-Sanz, A.**; Liu, J.; Marlton, F.; Lo Wing, T.; Lei, D.; Jørgensen, M. R. V.; Pramanick, A., “Scaling behavior of order parameters for the Hybrid Improper Ferroelectric (Ca,Sr)₃Ti₂O₇” *Physical Review B*, 107 (2023) 224103-1 – 224103-8.
- (20) Htet, C. S.; **Manjón-Sanz, A.**; Liu, J.; Kong, J.; Marlton, F.; Nayak, S.; Jørgensen, M. R. V.; Pramanick, A., “Effect of local structural distortions on antiferroelectric-ferroelectric phase transition in dilute solid-solutions of K_xNa_{1-x}NbO₃”, *Inorganic Chemistry*, 61, (2022) 50, 20277-20287.
- (19) Gurieva, G.; Rotaru, V.; Ernits, K.; Siminel, N.; **Manjón-Sanz, A.**; Kirkham, M.; Perez-Rodrigues, A; Guc, M.; Meissner, D.; Schorr, S., “...to grind or not to grind? Cu/Zn disorder in Cu₂ZnSn(S_xSe_{1-x})₄ monograins”, *Solar Energy Materials and Solar Cell*, 248, (2022) 1-10.
- (18) Pastoor, K. J.; Miskowiec, A. J.; Niedziela, J. L.; Christian, J. H.; Foley, B. J.; Isbill, S. B.; Shields, A. E.; **Manjón-Sanz, A.**; Nykwest, E. C.; Spano, T. L.; Wellons, M. S.; Shafer, J. C.; Jensen, M. P., “Structural Characterization of Uranium Tetrafluoride Hydrate (UF₄·2.5H₂O)”, *The Journal of Physical Chemistry C*, 126, (2022) 31, 13256-13267.

- (17) Saura-Múzquiz, M.; Marlton, F.; Mullens, B.; **Manjón-Sanz, A.**; Neufeind, J. C.; Everett, M.; Brand, H. E. A.; Mondal, S.; Vaitheeswaran, G.; Kennedy, B. J., “Understanding the re-entrant phase transition in a non-magnetic scheelite”, *Journal of the American Chemical Society*, 144 (2022) 34, 15612-15621.
- (16) Htet, C. S.; Nayak, S.; **Manjón-Sanz, A.**; Liu, J.; Kong, J.; Sørensen, D. R.; Marlton, F.; Jørgensen, M. R. V.; Pramanick, A., “Atomic structural mechanism for ferroelectric-antiferroelectric transformation in perovskite NaNbO_3 ”, *Physical Review B*, 105 (2022) 17, 174113-1 – 174113-13.
- (15) **Manjón-Sanz, A.**; Surta, T. W.; Mandal, P.; Corkett, A. J.; Niu, H.; Nishibori, E.; Takata, M.; S; Claridge, J. B.; Rosseinsky, M. J., “Complex Structural Disorder in a Polar Orthorhombic Perovskite Observed through the Maximum Entropy Method/Rietveld Technique”, *Chemistry of Materials*, 34 (2022) 1, 29-42.
- (14) Molina Esquinas, A.; **Manjón-Sanz, A.***; Sánchez-Sánchez, M., “On the contribution of Pair Distribution Function (PDF) to the characterization of nanocrystalline MOFs: The case of M-MOF-74”, *Microporous and Mesoporous Materials*, (2021) 319, 110973.
- (13) Culberston, C; **Manjón-Sanz, A.**; Dolgos, M. R., “Order-disorder behavior in lead-free piezoelectric $\text{BaZr}_{0.2}\text{Ti}_{0.8}\text{O}_3-x\text{Ba}_{0.7}\text{Ca}_{0.3}\text{TiO}_3$ determined by neutron total scattering”, *Materials Research Bulletin*, (2021) 135, 111124 (1-7).
- (12) Sánchez-Ahijón, E.; Rainer Schmidt, R.; Marín-Gamero, R.; Molero-Sánchez, B.; Ávila-Brandé, D.; **Manjón-Sanz, A.**; Fernández-Díaz, M. T.; Morán, E.; Prado-Gonjal, J. “ $\text{BaFe}_{0.125}\text{Co}_{0.125}\text{Zr}_{0.75}\text{O}_{3-\delta}$: a highly promising mixed ionic-electronic conductor for intermediate temperature solid oxide fuel cells”, *Journal of Materials Chemistry A*, 8 (2020), 3413-3420.
- (11) **Manjón-Sanz, A.**; Culberston, C; Hou D.; Jones, J. L.; Dolgos M. R., “Total scattering and diffraction studies of lead-free piezoelectric $\text{BaZr}_{0.2}\text{Ti}_{0.8}\text{O}_3-x\text{Ba}_{0.7}\text{Ca}_{0.3}\text{TiO}_3$ deconvolute intrinsic and extrinsic contributions to electromechanical strain”, *Acta Materialia*, 171 (2019), 79-91.
- (10) **Manjón-Sanz, A.**; Dolgos, M. R., “Applications of Piezoelectrics: old and new”, *Invited review article, Chemistry of Materials*, 30, (2018), 8718-8726.
- (9) McQuade, R.; Rowe, T.; **Manjón-Sanz, A.**; de la Puente, L.; Dolgos, M. R., “An investigation into group 13 (Al, Ga, In) substituted $(\text{Na}_{0.5}\text{Bi}_{0.5})\text{TiO}_3\text{-BaTiO}_3$ (NBT-BT) lead-free piezoelectrics”, *Journal of Alloys and Compounds*, 762, (2018), 378-388.
- (8) Surta, T. W.; **Manjón-Sanz, A.**; Qian, E. K.; Dolgos, M. R., “Low Temperature Synthesis Route and Structural Characterization of $(\text{Bi}_{0.5}\text{A}_{0.5})(\text{Sc}_{0.5}\text{Nb}_{0.5})\text{O}_3$ ($\text{A} = \text{K}^+$ and Na^+) Perovskites”, *Inorganic Chemistry Frontiers*, 5, (2018), 1033-104.
- (7) Surta, T. W.; **Manjón-Sanz, A.**; Qian, E. K.; Mansergh, R. H.; Tran, T. T.; Fullmer, L. B.; Dolgos, M. R., “Dielectric and Ferroelectric Properties in Highly Substituted Aurivillius Phases- $\text{Bi}_2\text{Sr}(\text{A})\text{TiNb}_2\text{O}_{12}$ ($\text{A} = \text{Ca}^{2+}, \text{Sr}^{2+}, \text{Ba}^{2+}$)”, *Chemistry of Materials*, 29, (2017), 7774-7784.
- (6) **Manjón-Sanz, A.**; Berger, C.; Dolgos, M. R., “Understanding the Structure-property Relationships of the Ferroelectric to Relaxor Transition of the $x\text{BiInO}_3\text{-(1-x)BaTiO}_3$ Lead-free Piezoelectric System”, *Journal of Materials Science*, 52, (2017), 5309-5323.

- (5) Mandal, P.; **Manjón-Sanz, A.**; Corkett, A. J.; Comyn, T. P.; Dawson, K.; Stevenson, T. P.; Bennett, L. F.; Henrichs, A.; Bell, A. J.; Nishibori, E.; Takata, M.; Marco Z.; Dolgos, M. R.; Adem, U.; Wan, X.; Pitcher, M. J.; Romani, S.; Tran, T. T.; Halasyamani, P. S.; Claridge, J. B.; Rosseinsky, M. J., “Morphotropic Phase Boundary in the Pb-free $(1-x)\text{BiTi}_{3/8}\text{Fe}_{2/8}\text{Mg}_{3/8}\text{O}_3-x\text{CaTiO}_3$ System: Tetragonal Polarization and Enhanced Electromechanical Properties“, *Advanced Materials*, 27, (2015), 2883-2889.
- (4) Sánchez-Sánchez, M.; **Manjón-Sanz, A.**; Díaz, I.; Mayoral, A.; Sastre, E., “Micron-Sized Single-Crystal-like CoAPO-5/Carbon Composites Leading to Hierarchical CoAPO-5 with Both Inter-and Intracrystalline Mesoporosity“, *Crystal Growth and Design*, 13, (2013), 2476-2485.
- (3) Dolgos, M. R.; Adem, U.; **Manjón-Sanz, A.**; Wan, X. M.; Comyn, T. P.; Stevenson, T.; Bennett, J.; Bell, A. J.; Tran, T. T.; Halasyamani, P. S.; Claridge, J. B.; Rosseinsky, M. J., “Perovskite B-site Compositional Control of [110]_p Polar Displacement Coupling in an Ambient Pressure-Stable Bismuth-based Ferroelectric“, *Angewandte Chemie-International Edition*, 41, (2012), 10770-10775.
- (2) **Manjón-Sanz, A.**; Sánchez-Sánchez, M.; Sastre, E., “Towards the Control of Intercrystalline Mesoporosity in Inorganic Microporous Materials: The Case of CoAPO-5“, *Catalysis Today*, 179, (2012), 102-114.
- (1) **Manjón-Sanz, A.**; Sánchez-Sánchez, M.; Muñoz-Gómez, P.; García, R.; Sastre, E., “Non-templete Intercrystalline Mesoporosity in Heteroatom-doped AlPO₄-5 using N-methyldicyclohexylamine as Structure-Directing Agent“, *Microporous and Mesoporous Materials*, 131, (2010), 331-341.

CONFERENCE PAPERS

- (3) **Manjón-Sanz, A.**; Culberston, C.; Dolgos, M. R., “Understanding the structure of $(1-x)\text{BaZr}_{0.2}\text{Ti}_{0.8}\text{O}_3-x\text{Ba}_{0.7}\text{Ca}_{0.3}\text{TiO}_3$ based lead-free piezoelectric materials“, *International Union of Crystallography*, 77, (2021) A120.
- (2) **Manjón-Sanz, A.**; Berger, C.; Culberston, C.; Dolgos, M. R., “Understanding the structure-property relationships of lead-free piezoelectric systems“, *Acta Crystallographica Section A*, 77, (2021), C1156.
- (1) **Manjón-Sanz, A.**; Surta, T. W.; McQuade, R.; Dolgos, M. R., “Piezoelectrics: Putting the squeeze on new materials“, *Abstracts of Papers of the American Chemical Society*, 251, (2016), 1319.

PRESENTATIONS

- Jan. 2024 “Materials for Energy and Sustainability: Structure, properties, and materials in action” (**Invited Talk**) Neutron Advisory Board, Oak Ridge National Laboratory, Oak Ridge, United States.
- Dec. 2023 “Examining the structure-property relationships of environmentally friendly functional ceramics using powder diffraction“ (**Invited Talk**) Materials Research by Advanced analysis: Synchrotron radiation and Neutron methods, Grand Meeting MRM&ICA2023, Kyoto, Japan.
- Aug. 2023 “Investigating the structure-property relationships of lead-free functional ceramics” (**Invited Talk**) North American Solid State Chemistry Conference, Calgary, Canada.
- July 2023 “Investigating the structure-property relationships of lead-free functional ceramics” (**Young Scholar Invited Talk**) IEEE International Symposium on Applications of Ferroelectrics, Cleveland, Ohio, United States.

- Jan. 2023 “Investigating the structure-property relationships of lead-free functional ceramics” (Talk) *Electronic Materials and Applications*, Florida, Orlando, United States.
- July 2022 “Room Temperature Polar and weak Ferromagnetic with low Dielectric loss $\text{BiFeO}_3\text{-Bi}_{2/3}\text{TiO}_3\text{-CaTiO}_3$ solid solutions”, (Poster), *American Crystallographic Association Meeting*, Portland, Oregon, United States.
- June 2022 “Room Temperature Polar and weak Ferromagnetic with low Dielectric loss $\text{BiFeO}_3\text{-Bi}_{2/3}\text{TiO}_3\text{-CaTiO}_3$ solid solutions”, (Poster), *American Conference on Neutron Scattering*, Boulder, Colorado, United States.
- Jan. 2022 “Structure-property relationships of lead-free piezoelectric systems”, (Poster), *Electronic Materials and Applications*, Virtual conference, United States.
- Jan. 2021 “Understanding the structure of $(1-x)\text{Ba}(\text{Zr}_{0.2}\text{Ti}_{0.8})\text{O}_{3-x}(\text{Ba}_{0.7}\text{Ca}_{0.3})\text{TiO}_3$ based lead-free piezoelectric materials”, (Poster), *Electronic Materials and Applications*, Virtual conference, United States.
- July 2020 “Understanding the Structure-property Relationships of the Ferroelectric to Relaxor Transition of the $(1-x)\text{BaTiO}_3\text{-}(x)\text{BiInO}_3$ Lead-free Piezoelectric System”, (Talk) *2020 American Conference on Neutron Scattering*, Virtual Conference, United States.
- May 2020 “Structure-property Relationships of Advanced Functional Materials and the POWGEN instrument”, (**Invited Virtual Seminar**) Jacob Jones Research group from the North Carolina State University, Raleigh, United States.
- Nov. 2019 “Structure-property Relationships of Advanced Functional Materials”, (**Invited Seminar**) Institute of Multidisciplinary Research for Advanced Materials, Tohoku University, Sendai, Japan.
- Oct. 2019 “Understanding nanoscaled Metal Organic Framework (M-MOF-74) materials via Pair Distribution Function analysis”, (Poster), *IX AUSE (the Spanish Synchrotron User Association) Conference and 4th ALBA User’s meeting*, CELLS, ALBA Synchrotron Light Facility, Cerdanyola Del Valles,
- May 2019 “La técnica de Pair Distribution Function y sus aplicaciones”, (**Invited Seminar**) *ECS Student Chapter*, Chemistry Department, Universidad Complutense de Madrid, Madrid, Spain.
- Apr. 2019 “La fuente de luz sincrotrón ALBA y sus aplicaciones”, (**Invited Talk**) *III Workshop Química Sostenible*, Instituto de Tecnología Química, Universitat Politècnica de Valencia, Valencia, Spain.
- March 2019 “Deconvolved intrinsic and extrinsic contributions to electrostrain in high performance $(1-x)\text{Ba}(\text{Zr}_{0.2}\text{Ti}_{0.8})\text{O}_{3-x}(\text{Ba}_{0.7}\text{Ca}_{0.3})\text{TiO}_3$ piezoceramics”, (Poster) *School and Conference on Analysis of Diffraction Data in Real Space*, Institut Laue-Langevin and The European Synchrotron, Grenoble, France.
- Apr. 2018 “Understanding the Structure-property Relationships in Advanced Functional Materials”, (**Invited Seminar**) *Institute of Catalysis and Petrochemistry*, Consejo Superior de Investigaciones Científicas (CSIC), Madrid, Spain.

- Feb. 2018 “Synthesis and Structure-property Relationships in Lead-free Piezoelectric Ceramics“, (**Invited Seminar**) *Materials Science Department*, Oregon State University, Corvallis, Oregon, United States.
- Jan. 2018 “Study of Domain Wall Motion and Local Structure Under Application of Electric Fields of $\text{BaZr}_{0.2}\text{Ti}_{0.8}\text{O}_{3-x}\text{Ba}_{0.7}\text{Ca}_{0.3}\text{TiO}_3$ “, (Talk) *Electronic Materials and Applications*, Florida, Orlando, United States.
- Nov. 2017 “Importance of Piezoelectric Materials“, (Talk) *Oregon State University / University of Oregon PostDoc Research Symposium*, University of Oregon, Eugene, Oregon, United States.
- Aug. 2017 “Structure-property Relationships in Novel Ferroelectric and Piezoelectric Perovskites“, (Poster) *North American Solid State Chemistry Conference*, University of California Santa Barbara, Santa Barbara, California, United States.
- June 2017 “Study of the Structure-property Relationship of the Piezoelectric System $x\text{BiInO}_3-(1-x)\text{BaTiO}_3$ “, (Talk) *72nd Northwest Regional Meeting*, Oregon State University, Corvallis, Oregon, United States.
- May 2017 “Temperature Dependence of Local Structure of Lead-free Piezoelectric: $\text{BaZr}_{0.2}\text{Ti}_{0.8}\text{O}_{3-x}\text{Ba}_{0.7}\text{Ca}_{0.3}\text{TiO}_3[\text{BZT}-x\text{BCT}]$ “, (Poster) *US School on Total Scattering Analysis*, Oak Ridge National Labs, Tennessee, United States.
- Jan. 2017 “Understanding the Structure-property Relationship of the Piezoelectric System $x\text{BiInO}_3-(1-x)\text{BaTiO}_3$ “, (Poster) *Electronic Materials and Applications*, Florida, Orlando, United States.
- July 2016 “Structure-property Relationship of a Lead-free Piezoelectric Material Synthesized at Ambient Pressure“, (Poster) *Gordon Research Conference on Solid State Chemistry*, New London, United States.
- July 2016 “Settling a Scientific Debate by Investigating the Structure-Property Relationships of Disordered Aurivillius Phases“, (Poster) *American Conference on Neutron Scattering*, Long Beach, California, United States.
- Oct. 2015 “New Lead-free A-site Based Piezoelectric Materials Synthesized at Ambient Pressure with Potential as Actuators“, (Poster) *Oregon State Postdoctoral Association Annual Research Poster Session*, Oregon State University, Corvallis, Oregon, United States.
- Apr. 2012 “A lead-free A-site Based Perovskite Synthesized at Ambient Pressure“, (Poster) *SOPRANO-Marie Curie FP7 meeting*, Max Planck Institute for Solid State Research, Stuttgart, Germany.
- Oct. 2011 “Structural Studies on Functional Lone Pair oxides“, (Talk) *SOPRANO-Marie Curie FP7 meeting*, The University of Liverpool, Liverpool, United Kingdom.
- Apr. 2011 “Structural Studies on Functional Lone Pair oxides“, (Talk) *SOPRANO-Marie Curie FP7 meeting*, Timisoara, Romania.
- July 2010 “Commercial Carbon Templating Mesoporosity in CoAPO-5 “, (Poster) *16th International Zeolite Conference*, Sorrento, Italy.

CAREER AND SKILLS DEVELOPMENT

- March 2021 *Women's leadership workshop*, Oak Ridge National Laboratory, Oak Ridge, United States.
- March 2021 *How to build an instrument*, Oak Ridge National Laboratory, Oak Ridge, United States.
- March 2019 *School and Conference on Analysis of Diffraction Data in Real Space*, Institut Laue-Langevin and The European Synchrotron, Grenoble, France.
- June 2018 *Python Introduction Course*, CELLS, ALBA Synchrotron Light Facility, Cerdanyola Del Valles, Spain.
- Jan. 2018 *Tuesday Teaching Talks*, The 90 Minute Certificated Series, Oregon State University, Corvallis, Oregon, United States.
- June 2017 *Grant Writing Workshop*, Oregon State University, Corvallis, Oregon, United States.
- Aug. 2016 *Postdoc Research Writing Workshop*, Oregon State University, Corvallis, Oregon, United States.
- July 2016 *Pacific Northwest Women in Science Retreat*, Oregon, United States.
- Apr. 2012 *XII School about the Rietveld method*, Universidad Jaume I, Castellón, Spain.
- March 2012 *Single Crystal X-Ray Structure Analysis*, University of Liverpool, Liverpool, United Kingdom.
- June 2010 *Introduction to the Characterization of Adsorbents and Catalysts*, CSIC, Cáceres, Spain.
- Nov. 2009 *Techniques for the Study of Solid Materials* (second edition), CSIC, Madrid, Spain.
- June 2009 *Techniques for the Study of Solid Materials* (first edition), CSIC, Madrid, Spain.

PEER REVIEWING AND PROFESSIONAL ACTIVITIES

- 2015 – 2016 **Mentor** of two International Exchange Undergraduate Students, *International Student Peer Mentoring Program*, Oregon State University, Corvallis, Oregon, United States.
- 2017 **Co-Instructor**: “Workshop on The Analysis of Total Scattering Data Using the Pair Distribution Function“, 72nd Northwest Regional Meeting, Oregon State University, Corvallis, Oregon, United States.
- 2019 **Volunteer** at the ALBA OPEN DAY, ALBA, Cerdanyola Del Valles, Spain.
- 2021 **Co-chair** of Women in Neutron Sciences, Oak Ridge National Laboratory, United States.
- 2021 – **Co-instructor**: “The Rietveld analysis on TOF neutron data using GSAS-II on the attendees for “National School on Neutron and X-ray Scattering”, Oak Ridge National Laboratory, United States.
- 2021 **Co-organizer** of the “Workshop 5: Materials Synthesis Science and Opportunities Aided by in-situ Scattering Tools”, Joint Nanoscience and Neutron Scattering User Meeting, Oak Ridge National Laboratory, United States.
- 2021, 2022 **Judge** for the “CrystEngCommPoster Prize” at the American Crystallographic Association.
- 2022 Neutron Special Interest Group **Chair** 2022 for the American Crystallographic Association.

- 2022 **Chair** of Women in Neutron Sciences, Oak Ridge National Laboratory, United States.
- 2022 **Co-chair** of the session “Materials For Our Future: Structural Insights Into Energy Materials And Sustainable Materials” at the *American Crystallographic Association Meeting*, Portland, Oregon, United States.
- 2023 **Chair** of the session “Characterization of Structure Property Relationships in Functional Ceramics” at the *Electronic and Advanced Materials*, Florida, Orlando, United States.
- 2023 Strategic Events **Project Lead** of Women in Neutron Sciences, Oak Ridge National Laboratory, United States.
- 2023 **Dissertation committee** of the thesis submitted by Ms. María Asunción Molina Esquinas on “Inmovilización de enzimas en MOFs: diseño y aplicaciones”.
- 2023 **Chair** of the session “Structure-property relationships of energy materials/Energy density, sustainability” at the *American Crystallographic Association Meeting*, Baltimore, Maryland, United States.
- 2023 **Co-instructor** of the “Introduction to Diffraction” workshop, Calgary, Canada.

Reviewer of *Chemistry of Materials*, *Physical Review B*, *Journal of Materials Science*, *International Journal of Molecular Sciences*, *Inorganic Chemistry*, *Physical Review Materials*, *Materials*, *Applied Sciences*, and *Symmetry*.

Memberships: *The International Centre for Diffraction Data*, *The American Ceramic Society*, *Neutron Scattering Society of America*, *American Crystallographic Association* and *Materials Research Society*.