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Marisa Sanders has extensive research experience in chemistry and materials science. Clients can rely on her to draft and prosecute patent applications related to a wide range of fields, including small-molecule pharmaceuticals, materials science, physical chemistry, and biochemistry. She is a registered patent agent and patent prosecutor with Alston & Bird's Intellectual Property – Biotechnology, Chemical & Pharmaceutical Patents Group. Before joining the firm, Marisa worked directly with and assisted partners on technical aspects of patent applications. As a former scientific adviser, Marisa gained experience in life sciences, pharmaceutical, and materials-related patent prosecution and assisted in patent drafting and claim construction for both domestic and international patent applications. Marisa was also responsible for preparing responses to USPTO office actions and filing a variety of prosecution documents, including utility applications, continued examination requests, missing parts responses, information disclosure statements, and assignment documents.

Marisa received a B.S. in chemistry, magna cum laude, from The College of New Jersey and a Ph.D. in chemistry and materials science from Princeton University under Dr. Robert J. Cava. Her Ph.D. work focused on the synthesis and characterization of new materials with applications in batteries, magnetic storage devices, clean energy, electrochromic displays, and quantum computers. Marisa is also a member of the American Chemical Society and the Society of Cosmetic Chemists. She serves on the American Chemical Society's national Younger Chemists Committee.

Publications & Presentations

Publications

- "Stabilizing the Tb-based 214 Cuprate by Partial Pd Substitution," *Journal of Materials Research*, Vol. 33, No. 11, 2018.
- "Magnetism in the $\text{KBaRE}(\text{BO}_3)_2$ (RE=Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu) Series: Materials with a Triangular Rare Earth Lattice," *Materials Research Express*, Vol. 4, No. 3, 2017.
- "NaSrMn₂F₇, NaCaFe₂F₇, and NaSrFe₂F₇: Novel Single Crystal Pyrochlore Antiferromagnets," *Journal of Physics Condensed Matter*, Vol. 29, No. 4, 2017.
- "Synthesis, Crystal Structure, and Magnetic Properties of Novel 2D Kagome Materials $\text{RE}_3\text{Sb}_3\text{Mg}_2\text{O}_{14}$ (RE=La, Pr, Sm, Eu, Tb, Ho): Comparison to $\text{RE}_3\text{Sb}_3\text{Zn}_2\text{O}_{14}$ Family," *Physica Status Solidi B*, Vol. 253, No. 10, 2016.
- "Effective Spin-1/2 Scalar Chiral Order on Kagome Lattices in $\text{Nd}_3\text{Sb}_3\text{Mg}_2\text{O}_{14}$," *Physical Review B*, Vol. 93, No. 18, 2016.
- " $\text{RE}_3\text{Sb}_3\text{Zn}_2\text{O}_{14}$ (RE = La, Pr, Nd, Sm, Eu, Gd): A New Family of Pyrochlore Derivatives with Rare Earth Ions on a 2D Kagome Lattice," *Journal of Materials Chemistry C*, Vol. 4, No. 3, 2016.

Education

- Princeton University (Ph.D., 2017)

- College of New Jersey (B.S., 2013)

Admitted to Practice

- U.S. Patent and Trademark Office

Related Services

Intellectual Property | Patent Prosecution, Counseling & Review | Biotechnology, Pharmaceutical & Life Sciences Patent Litigation