



Casey Hickey, Ph.D.

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Related Services

Intellectual Property ■ Patent Prosecution, Counseling & Review

Casey Hickey is a registered patent agent with an extensive background in chemistry. Casey's experience includes the preparation and prosecution of patent applications, both domestically and internationally, for large tech clients within software and wireless telecommunication industries. She also analyzes patentability and standard essentiality for clients.

Before starting her career as a patent agent, Casey earned her Ph.D. in chemistry, and was awarded a National Science Foundation Graduate Research Fellowship. Casey's research focused on characterizing excited state properties of disordered semiconductors.

Representative Experience

- Preparing and prosecuting patent applications related to cellular and Wi-Fi radio access technologies for a multinational wireless communications company.
- Preparing and prosecuting patent applications related to identity and access management for a multinational software company.

Publications & Presentations

Publications

- "Direct Correlation of Charge Carrier Transport to Local Crystal Quality in Lead Halide Perovskites," *Nano Letters*, Vol. 20
- "Reduced Artifact Approach for Determining Diffusion Coefficients in Time-Resolved Microscopy," *The Journal of Physical Chemistry C*, Vol. 124, No. 25
- "Screening Links Transport and Recombination Mechanisms in Lead Halide Perovskites," *The Journal of Physical Chemistry C*, Vol. 123, No. 25
- Ultrafast Excited-state Transport and Decay Dynamics in Cesium Lead Mixed Halide Perovskites," *ACS Energy Letters*, Vol. 2, No. 7

Education

- Montana State University (Ph.D., 2020)
- Montana State University – Billings (B.S., 2015)

Admitted to Practice

- U.S. Patent and Trademark Office