CLARK+ELBING

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Demetra Z. Adrahtas, Ph.D.

Technology Specialist

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EDUCATION

Ph.D., Materials Science and Engineering, University of Minnesota – Twin Cities

B.S., *magna cum laude*, Chemistry, Loyola University Chicago

PRACTICE AREAS

Corporate & Investment Diligence
Licensing & Transactions
Patent Opinions
Patent Prosecution
Strategic Counseling
Trade Secrets
Trademarks

TECHNOLOGIES

Chemistry & Materials Science
Industrial Devices
Life Sciences
Medical Devices & Diagnostics

OVERVIEW

Demetra applies her research background in materials science and analytical chemistry to assist in the preparation and prosecution of patent applications.

Demetra's doctoral work focused on engineering transistor-based biosensors toward antibody- and aptamer-based detection of small molecules. Her emphasis on the sensing surface and its stability resulted in her gaining expertise in surface characterization tools, including x-ray photoelectron spectroscopy, infrared spectroscopy, and cyclic voltammetry. She has also investigated the use of gel electrolytes in both transistors and capacitors for broad applications in flexible electronics and catalysis.

Her original, co-authored research papers and review articles have been published in peer-reviewed journals, including *ACS Sensors, Advanced Functional Materials, Biomicrofluidics*, and *Nature Reviews Methods Primers*.