

# Jessica Claire

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<b>SUMMARY</b>	<p>My Ph.D. career focused on developing technologies and materials to advance the fields of sulfur based infrared optical polymers, optical telecommunications, and lithium-sulfur batteries. This work was highly collaborative as highlighted by the numerous publications produced as an effort between different groups/colleges at the University of Arizona, as well as other institutions. Given the nature of this multi-disciplinary work, I have I have a strong background not only in organic/polymer synthesis and characterization, but also in a variety of device fabrication techniques.</p>
<b>SKILLS</b>	<ul style="list-style-type: none"><li><b>Device Fabrication:</b><ul style="list-style-type: none"><li>Coin cell fabrication/testing</li><li>Melt/solution polymer processing</li><li>Fabrication of bulk and microoptic elements</li><li>Glove box use</li><li>Clean room and photolithography experience</li></ul></li><li><b>Laboratory Synthesis:</b><ul style="list-style-type: none"><li>Synthetic desing/planning</li></ul></li><li>Small molecule synthesis/characterization</li><li>Polymer synthesis and characterization (RAFT, ATRP, Lactide ROP, ROMP)</li><li><b>Instrumentation Experience</b><ul style="list-style-type: none"><li>Spectroscopy (UV-Vis, ATR/FTIR, NMR)</li><li>Size Exclusion Chromatography</li><li>Differential Scanning Calorimetry</li><li>Thermogravimetric Analysis</li></ul></li></ul>
<b>EXPERIENCE</b>	<p><b>CONSULTANT</b> <span style="float: right;">06/2020 to CURRENT</span></p> <p><b>L&amp;T Infotech   Dallas, TX</b></p> <ul style="list-style-type: none"><li>Worked as a consultant to support an NSF SBIR grant aimed at bringing to market the minimum viable product using sulfur based materials as part of the optical component for IR imaging</li></ul> <p><b>PRINCIPLE RESEARCH SPECIALIST</b> <span style="float: right;">11/2019 to CURRENT</span></p> <p><b>The New School   New York, NY</b></p> <ul style="list-style-type: none"><li>Designed new materials enabling novel methods for connecting photonic integrated circuits to meet industrial requirements/metrics of reducing the cost of optical alignment and enabling greater modularity in fabrication processes.</li><li>Worked to synthesize and process biodegradable materials into stents to help reduce clotting and aide in tissue regeneration following heart surgery.</li><li>Designed and synthesized new organic comonomer motifs for sulfur based IR optical materials to chemically engineer new windows of transparency</li></ul> <p><b>GRADUATE RESEARCH ASSISTANT</b> <span style="float: right;">08/2014 to 12/2019</span></p> <p><b>The University Of Arizona   City, STATE</b></p> <ul style="list-style-type: none"><li>Improved thermomechanical properties while retaining desired performance of sulfur based infrared optical devices</li><li>Devised methods of increasing the refractive index of sulfur based materials by incorporating other chalcogens into the polymer</li><li>Development of highly efficient, wholly solution processable dielectric mirrors utilizing high refractive index sulfur based materials</li><li>Developed materials that undergo photolithographically defined changes in refractive index to facilitate fabrication of polymer waveguides devoid of etching steps</li></ul> <p><b>EDUCATION AND TRAINING</b></p> <p><b>Bachelor of Science</b>   Chemistry <span style="float: right;">06/2014</span></p> <p>California Polytechnic State University-San Luis Obispo, San Luis Obispo, CA</p> <p><b>Ph.D.</b>   Chemistry <span style="float: right;">12/2019</span></p> <p>The University of Arizona, Tucson, AZ</p>