## Powders

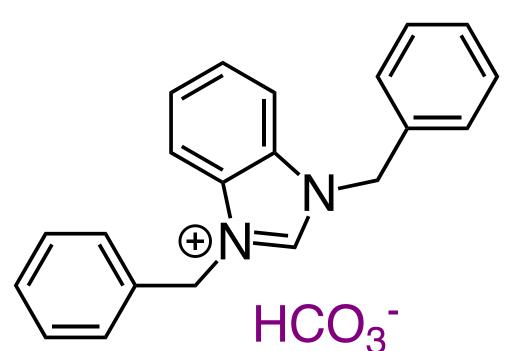


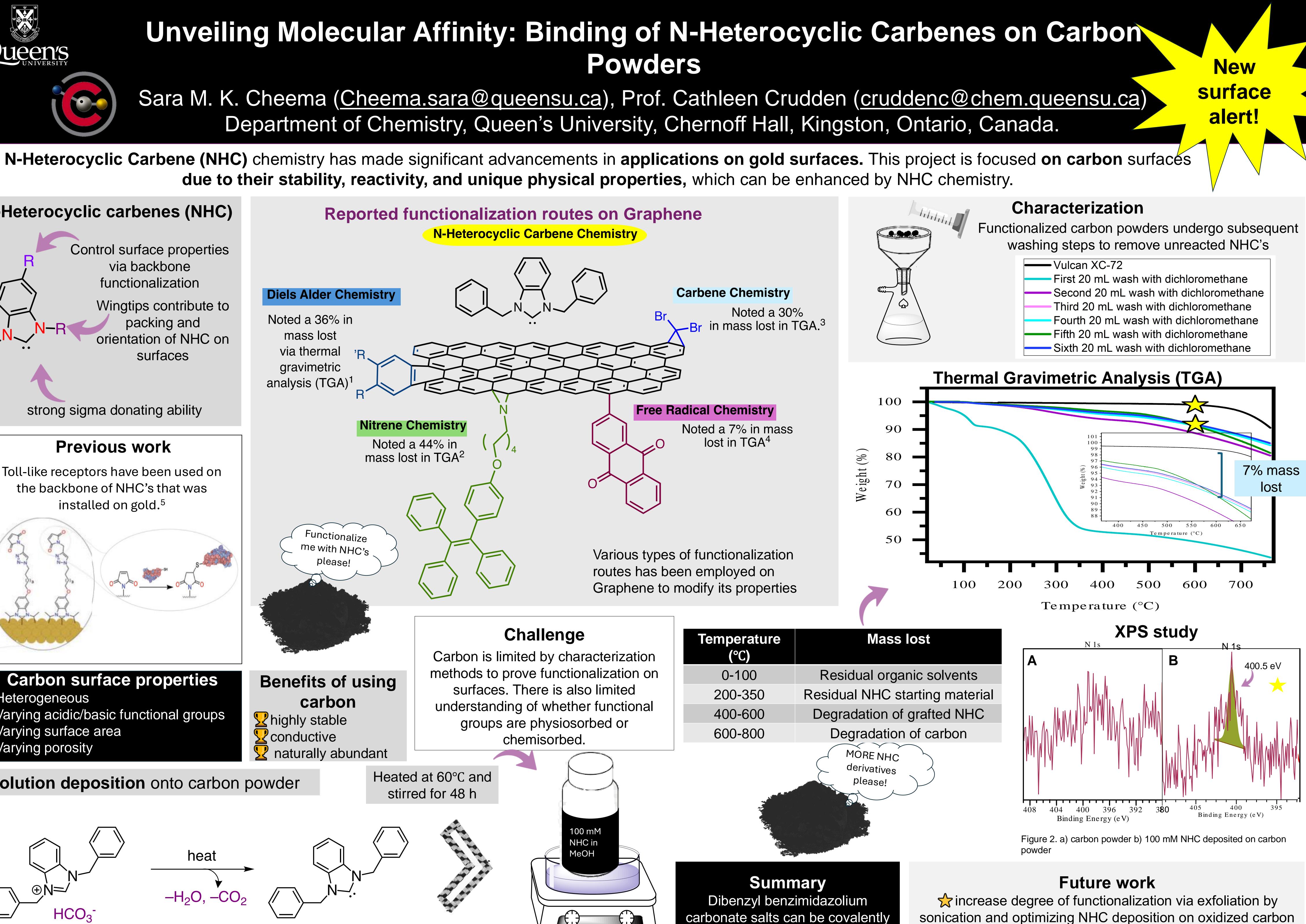




N-Heterocyclic carbenes (NHC) Control surface properties via backbone functionalization	<b>Diels Alder</b>
Wingtips contribute to packing and orientation of NHC on surfaces strong sigma donating ability	Noted a 369 mass los via therm gravimetr analysis (TC
Previous work	
Toll-like receptors have been used on the backbone of NHC's that was installed on gold. <sup>5</sup>	
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<ul> <li>Carbon surface properties</li> <li>Heterogeneous</li> <li>Varying acidic/basic functional groups</li> <li>Varying surface area</li> <li>Varying porosity</li> </ul>	Benefits carb Phighly state Conductive naturally a

Solution deposition onto carbon powder





References 1) Chem. Commun. 2010, 46, 7340–7342.2) RSC Adv., 2012, 2, 7042–7047. 3) Appli. Surf. Sci. 2014, 311, 377–383. 4) Carbon. 2017, 111, 83–93. 5) Chem. Commun. 2021, 57, 8421–8424.

Temperature (°C)	Mass lost	
0-100	Residual organic solvents	
200-350	Residual NHC starting material	
400-600	Degradation of grafted NHC	
600-800	Degradation of carbon	
MORE NHC derivatives please!		
Dibonzyl bonzi		

added to the surface, and further optimization is being explored.

sonication and optimizing NHC deposition on oxidized carbon Solid-state NMR study □TOF-SIMS study