Modern life relies heavily on countless plastic consumer products that fall into two main categories: thermoplastics and thermosets. Thermoplastics are based on materials such as polyethylene or polycarbonates that are easily recycled at elevated temperatures. On the other hand, thermosets are tougher materials that contain numerous covalent cross links rendering them difficult to recycle. In order to address the recyclability concerns of thermosets, recent efforts have gone into a class of materials called vitrimers which possess the same materials properties as thermoset plastics but possess dynamic cross links at elevated temperatures. In this MiMs talk, I will highlight recent advances in the vitrimer literature.