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Transparent ceramics have recently acquired a high degree of interest and notoriety. Basic applications include lasers and cutting tools, transparent armor windows, night vision devices (NVD), and nose cones for heat seeking missiles. Paper # 1244 : What is the effect of lipophilic polymeric ionic liquids on friction and wear? AP Bapat, R Erck, BT Seymour, B Zhao: Reactive and Functional Polymers Volume 131, October 2018, Pages 150-155 2017. ICNSNT-2017 4th International Conference on Nanoscience and Nanotechnology 14-15 December 2017, Colombo, Sri Lanka ANNIC 2017 Applied Nanotechnology and Nanoscience International Conference 2017 Magnesium and its alloys have excellent physical and mechanical properties for a number of applications. In particular its high strength:weight ratio makes it an ideal metal for automotive and aerospace applications, where weight reduction is of significant concern.