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Abstract	:	<p>From large-scale civil engineering megaprojects to housing developments and restoration projects, the construction industry is crucial to the urbanized growth of a country. With the recent development of green technologies, many researchers have established the application of alternative resources, such as waste and by-products, as sophisticated composite materials in construction practices. With aggregates being pivotal in construction activities, it would be extremely beneficial to find alternatives to improve their properties whilst managing lower production costs and protecting the environment. This chapter addresses the replacement techniques, findings, challenges, and research gaps associated with recycled aggregates in modified mortar mix to encourage sustainable practices and concludes that it is more environmentally friendly in the construction industry.</p>