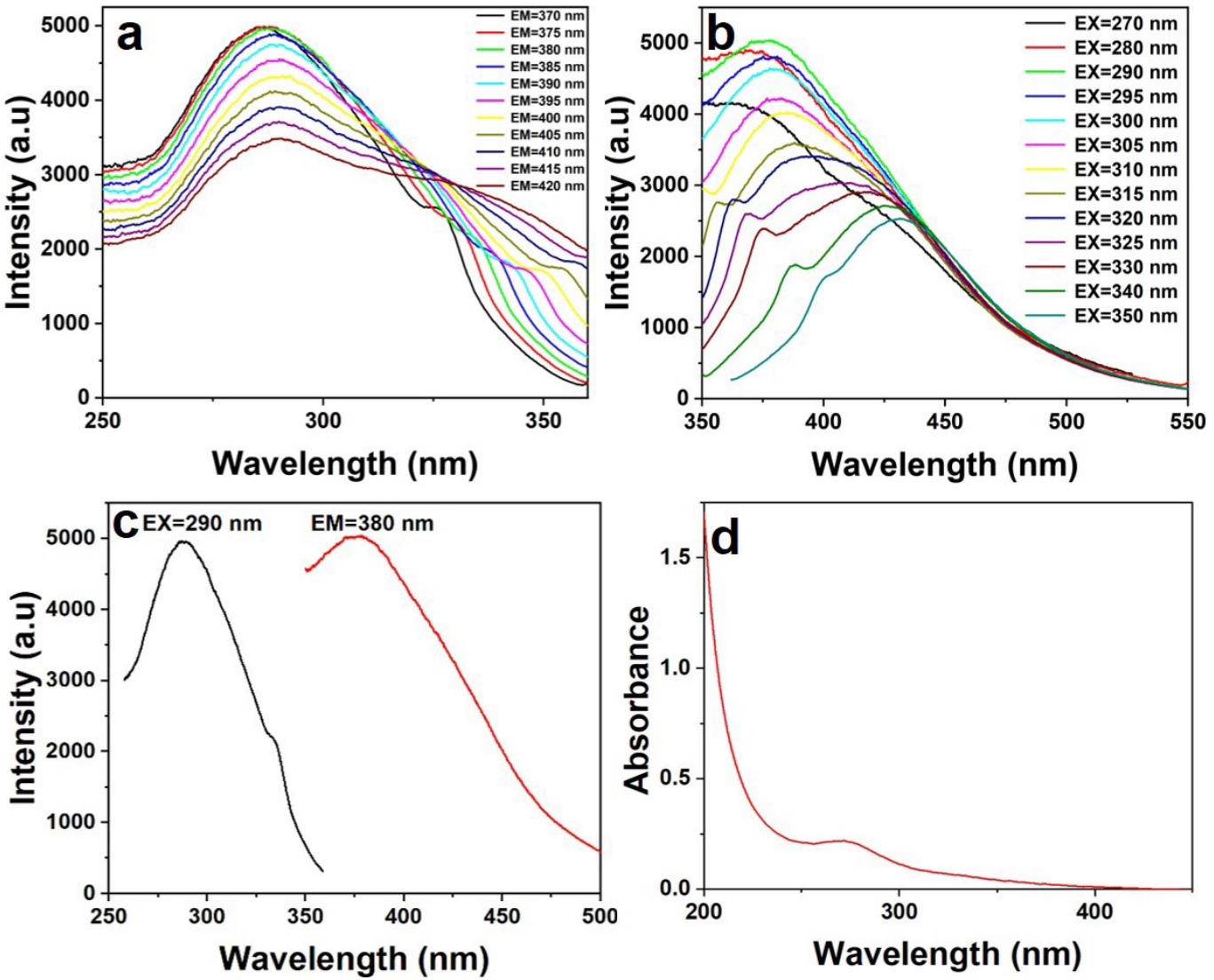This journal is © The Royal Society of Chemistry 2025