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$\text{ZnO}$ ,  $\text{Mn}_3\text{O}_4$ , and  $\text{MnO}_x$ ) and their derivatives, a review article focusing on MON-based nanoplatforms has not been reported yet. Herein, the representative progresses of MONs on synthesis, heterogene, properties, surface modification,

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toxicity, imaging, biodetection, and therapy are mainly introduced.

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one dimension) between 1 and 100 nm (the usual definition of nanoscale).. Nanomaterials research takes a materials science-based approach to nanotechnology, leveraging advances in materials metrology and synthesis which have been

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