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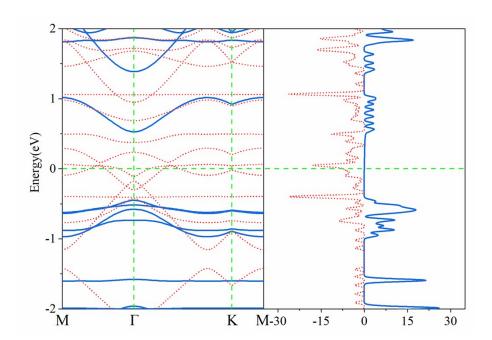


Figure S1 DOS and energy band of Fe-ZN $_4$ NR obtained by using the HSE06 method.

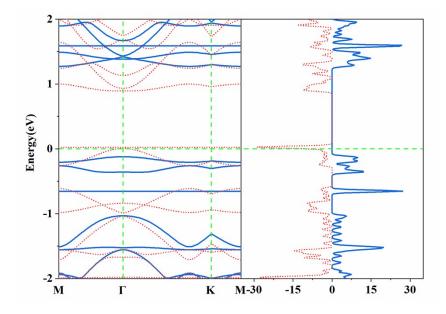


Figure S2 DOS and energy band of Mn-AN $_4$ NR obtained by using the HSE06 method.