Supporting information

A silver-modified nanosheet self-assembled hollow microsphere with enhanced conductivity and permeability

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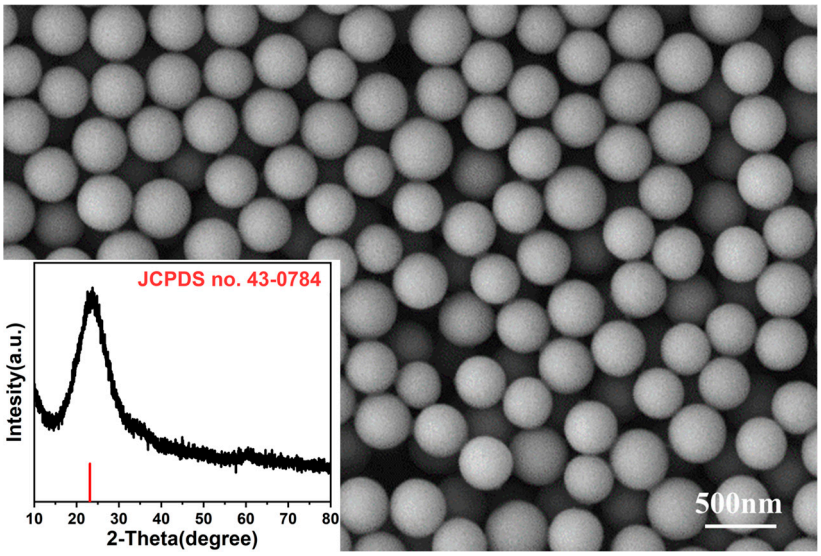


Fig.S1 XRD and SEM of SiO_2 were prepared by the Stöber hydrolysis method.

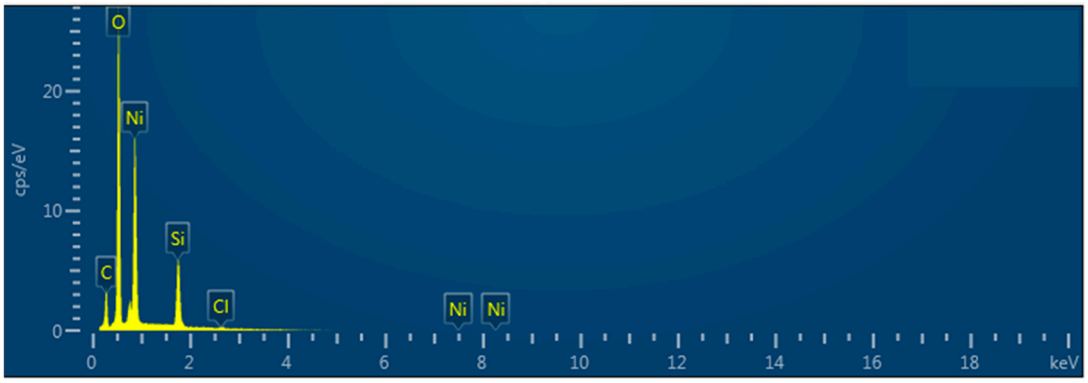


Fig.S2 EDX spectra of NiSi-$Ni(OH)_2$.

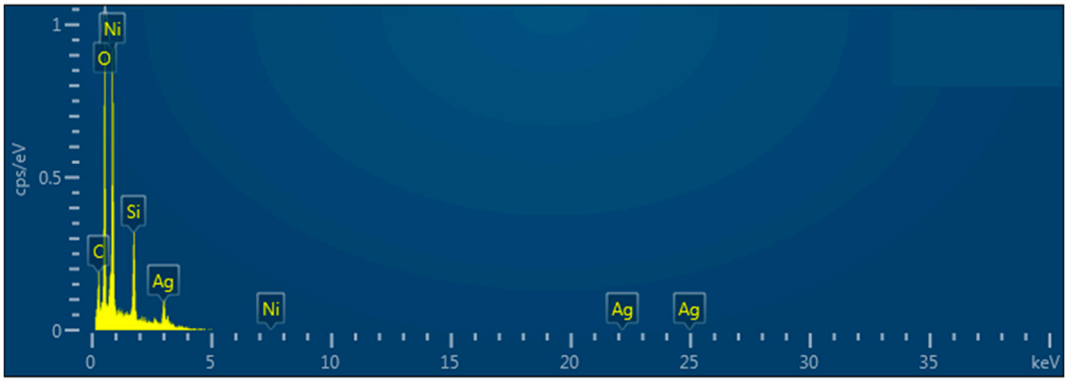


Fig.S3 EDX spectra of Ag/NiSi-Ni.

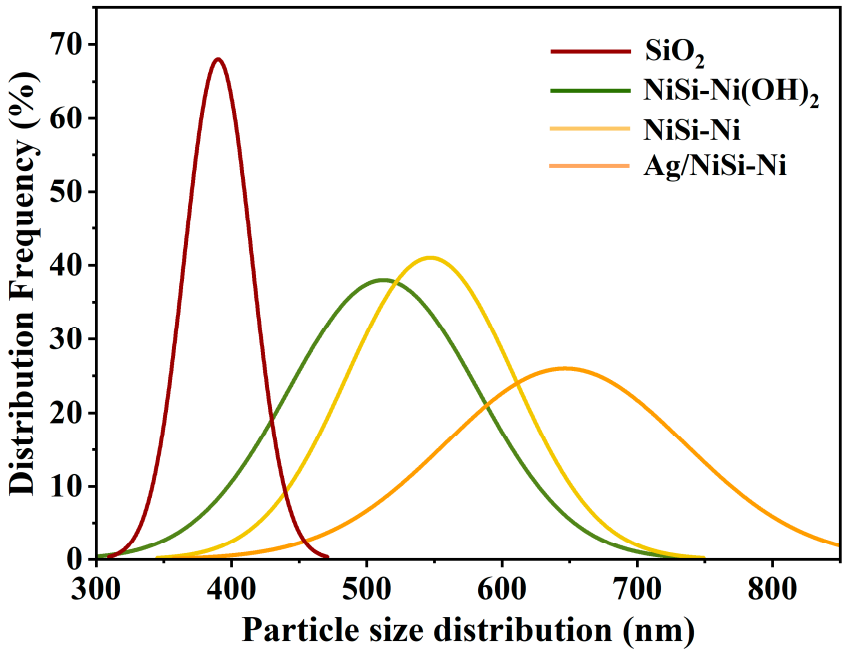


Fig.S4 Particle size distribution of different nanoparticles.

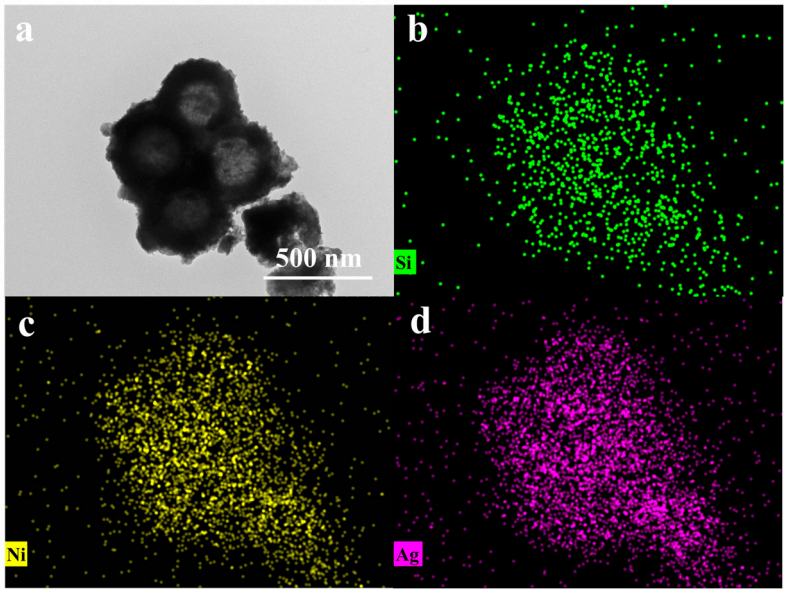


Fig.S5 (a) TEM image of Ag/NiSi-Ni and their EDS elemental mappings of Si(b), Ni(c) and Ag(d) elements.

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Full Analysis-AtmHe34mm

Sum	Compton	Ni	Ag	Si
	80.4 KCps	603.0 KCps	328.6 KCps	8.5 KCps
56.32	61.4 %	42.0 %	40.7 %	17.4 %

Fig.S6 XRF test results of Ag/NiSi-Ni.

Table S1. Comparison of the performance of Coercivity (Oe)

Sample	Coercivity (Oe)	Ref.
Annealing steel	0.45	1
AISI 304 Steel	63	2
Co/Pt(111)	0.1	3
IPM Machine	168	4
Ag/NiSi-Ni	383.4	This work

Table S2. Comparison of the performance of Resistivity (Ω m).

Sample	Resistivity (Ω m)	Ref.
H_2SO_4@MIL-101-SO_3H	5.5×10^{-3}	5
CS/H_2SO_4@MIL-101-8	1.1×10^{-1}	6
PIL@MIL	2.7×10^{-1}	7
ImPEEK/ImMIL-101(Cr)	2.1×10^{-1}	8
BUT-8(Cr)A	7.9×10^{-1}	9
DNA@ZIF-8	5.9×10^{-2}	10
Ag/NiSi-Ni	1.2×10^{-3}	This work

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