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SUPPORTING INFORMATION

Bio-inspired Fabrication of Silver Nanoparticles on Nanostructure Silica, Characterization and Application as Highly Efficient Hydrogenation Catalyst

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Table S1: Physical and chemical properties of nanosilica

Form	Powder
Colour	Light Cream
Odour	Soapy
Melting point	>390 ˚C
Ignition temperature	470 ˚C
Glow temperature	>450 ˚C
Bulk density	400-650 g.L^{-1}
Water solubility	~0.032 g.L^{-1}at 20 ˚C

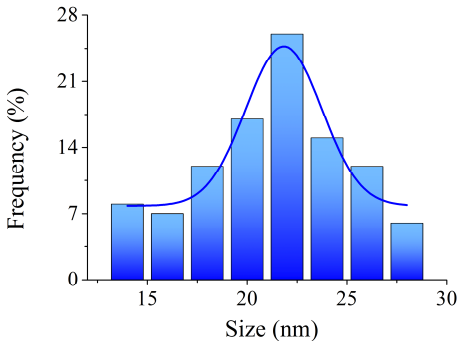
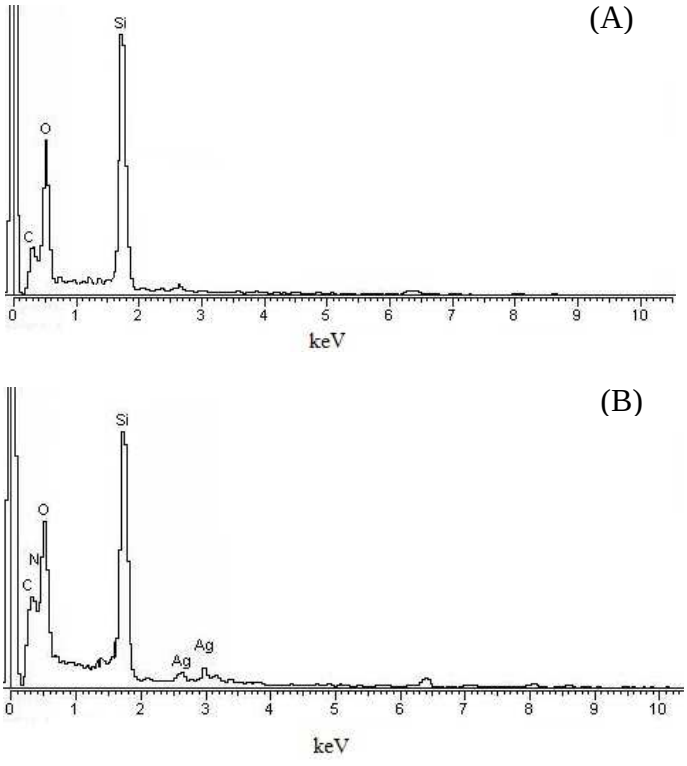


Figure S1. Particle size histogram of AgNPs on Ag@Nanosilica.



Element	Weight%	Atomic%
C K	11.31	14.90
O K	49.11	48.16
Si K	39.58	36.94
Totals	100.00	

Element	Weight%	Atomic%
C K	19.83	31.68
N K	17.79	26.89
O K	30.36	29.44
Si K	28.57	11.48
Ag L	3.66	0.51
Totals	100.00	

Figure S2. EDXA spectrum (left panel) and quantitative elemental analysis (right panel) of (A) nanosilica and (B) Ag@Nanosilica.

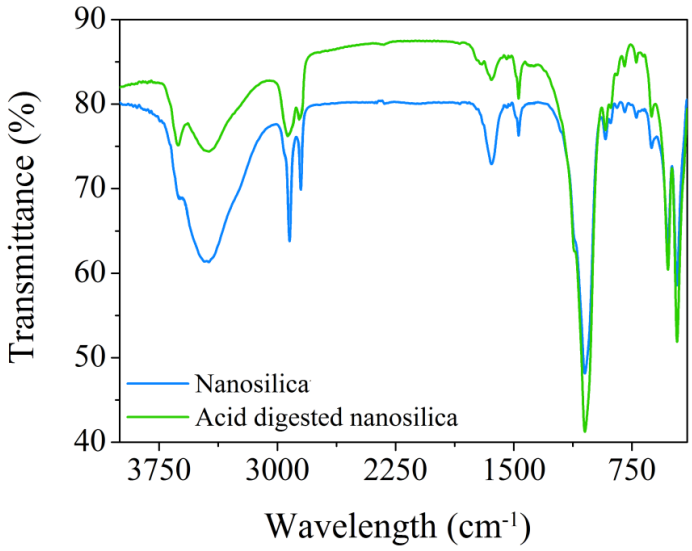


Figure S3: FTIR spectra of the pristine and acid digested nanosilica.

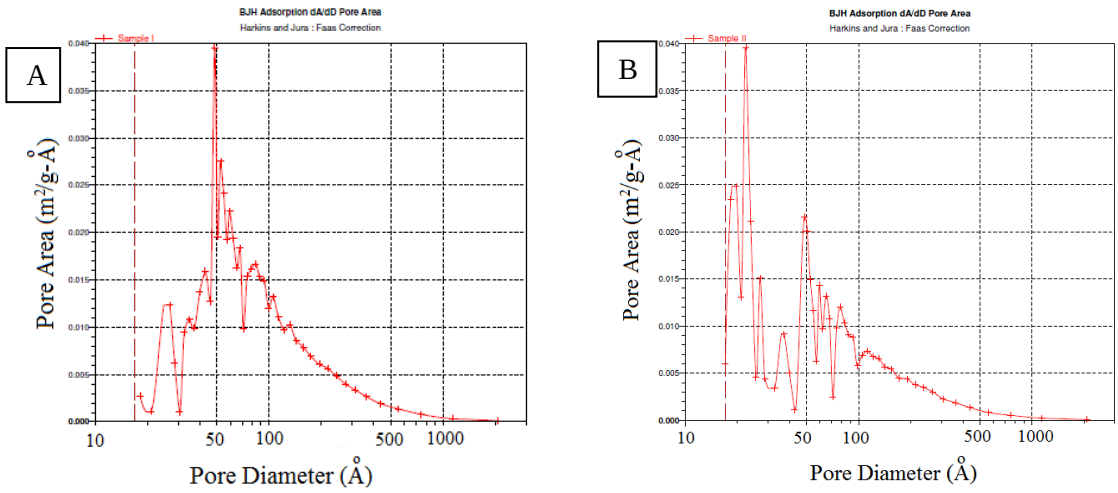


Figure S4. Pore size distribution of (A) nanosilica and (B) Ag@Nanosilica