Supplementary Materials

Efficient Recycling Blast Furnace Slag by Constructing Ti-Embedded Layered Double Hydroxide as Visible-Light-Driven Photocatalyst

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Table S1. The main composition of MA-LDH

Composition	CaO	SiO_2	TiO_2	MgO	Al_2O_3
wt. %	5.77	2.01	8.75	30.14	53.33

Table S2. General weight ratios that converted in CSS and TMA-LDH

Elements	TMA-LDH (wt. %)	CSS (wt. %)
Ca	6.00	82.11
Si	2.38	93.62
Ti	82.69	12.57
Al	92.96	4.28
Mg	84.09	7.78

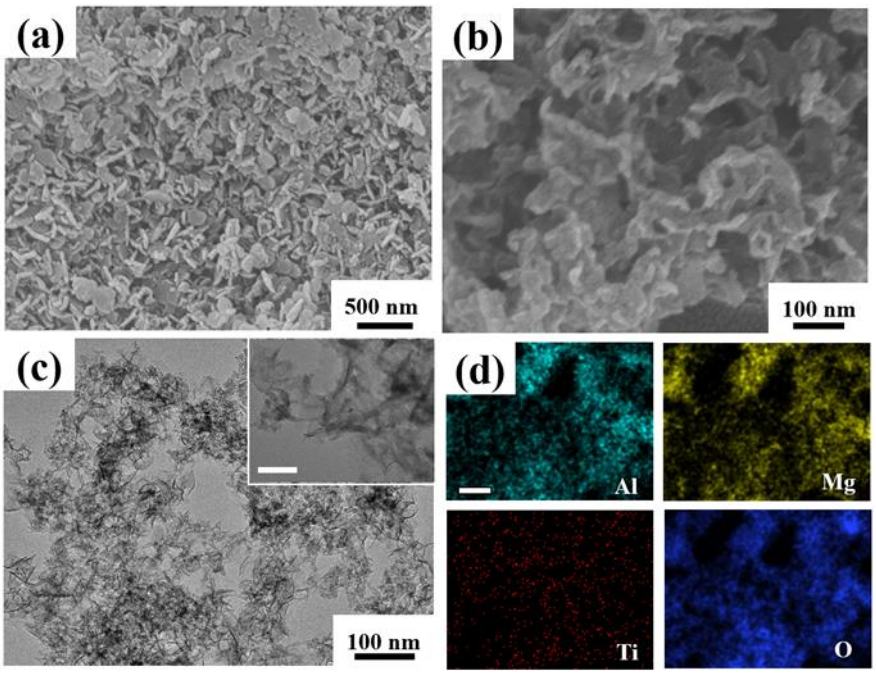


Figure S1. (a) low and (b) high magnified SEM images, (c) TEM images and (d) elemental mapping of obtained MA-LDH. The scale bar of image inserted Figure c is 50 nm.

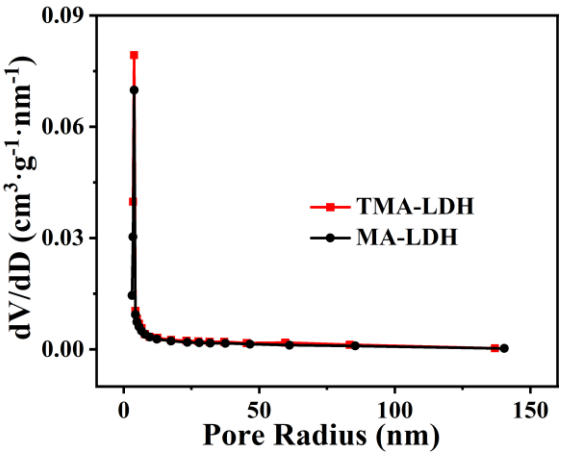


Figure S2. Pore size distribution of obtained brucite products.

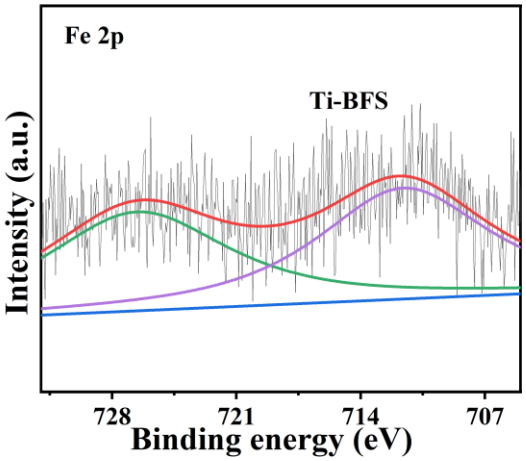


Figure S3. XPS spectra of Fe 2p in Ti-BFS.

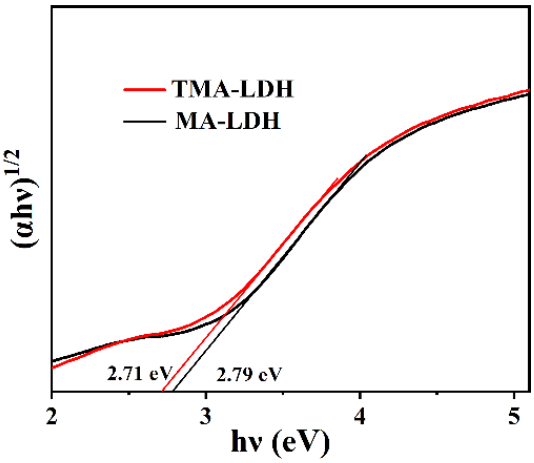


Figure S4. Band gap energy of TMA-LDH and MA-LDH.

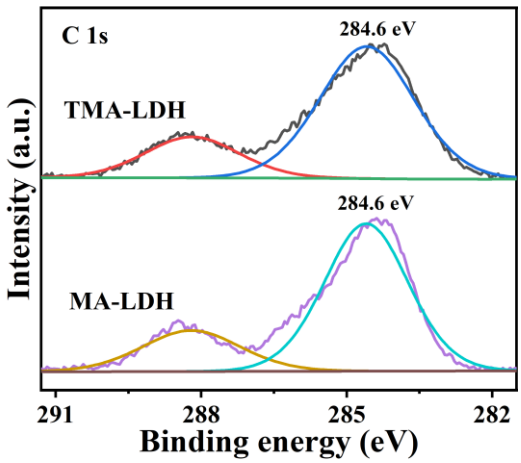


Figure S5. The XPS spectra of the carbon component.