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Supporting Information

3D Interconnected Polymer/Mesoporous Silica Nanoparticle Hybrid Materials with Hierarchical Macro/Meso-structure for Heavy Metal Adsorption

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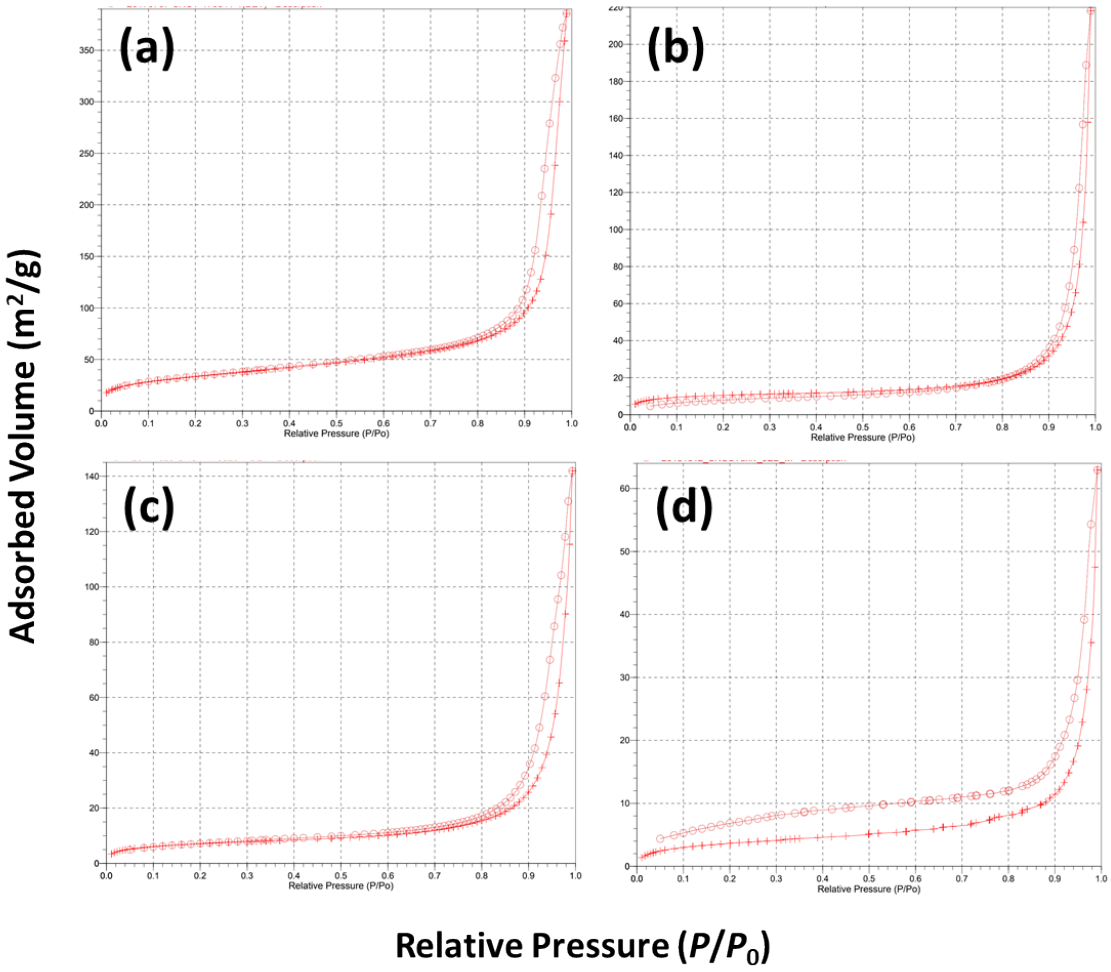

Figure S1. Nitrogen adsorption-desorption isotherms of (a) MSN-NH_2, (b) NSI-304, (c) NSI-314, and (d) NSI-514 samples.

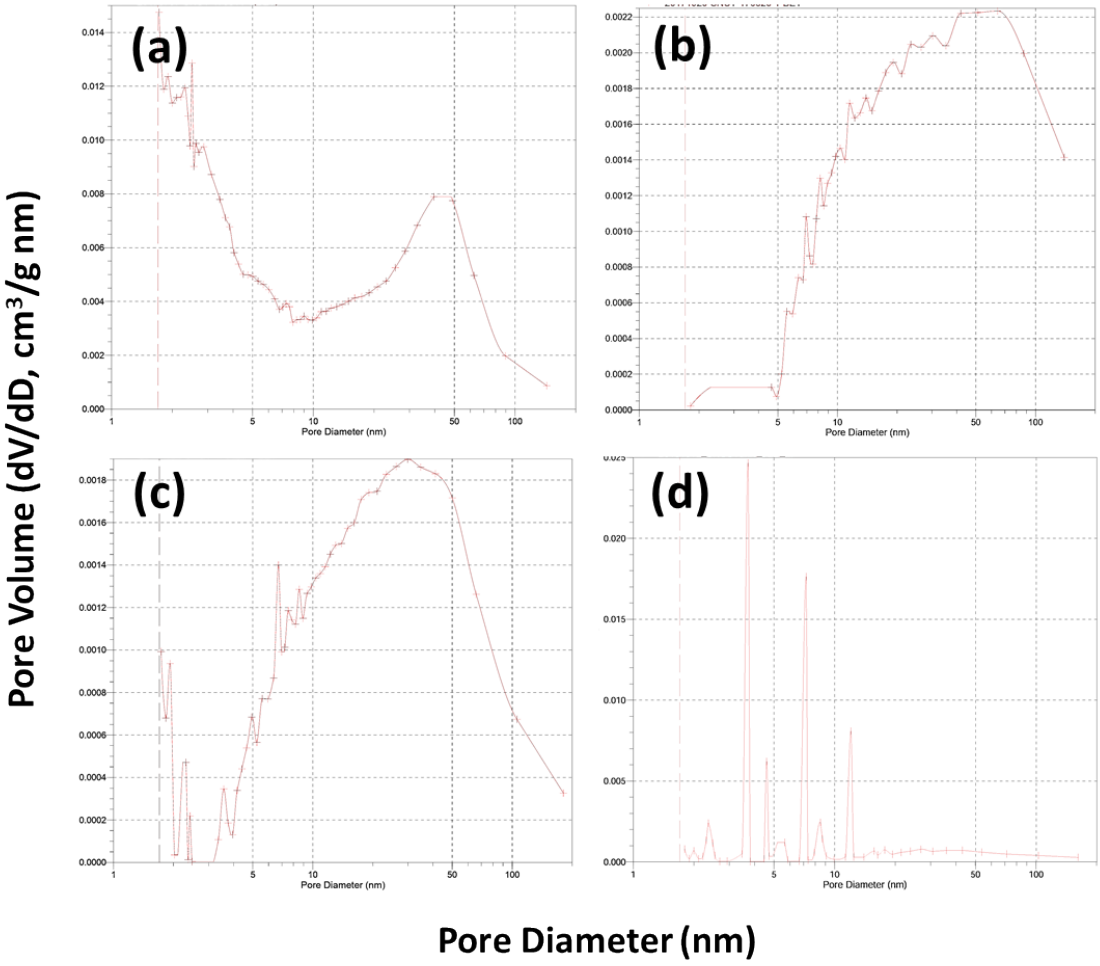

Figure S2. Pore size distribution of (a) MSN-NH_2, (b) NSI-304, (c) NSI-314, and (d) NSI-514 samples.

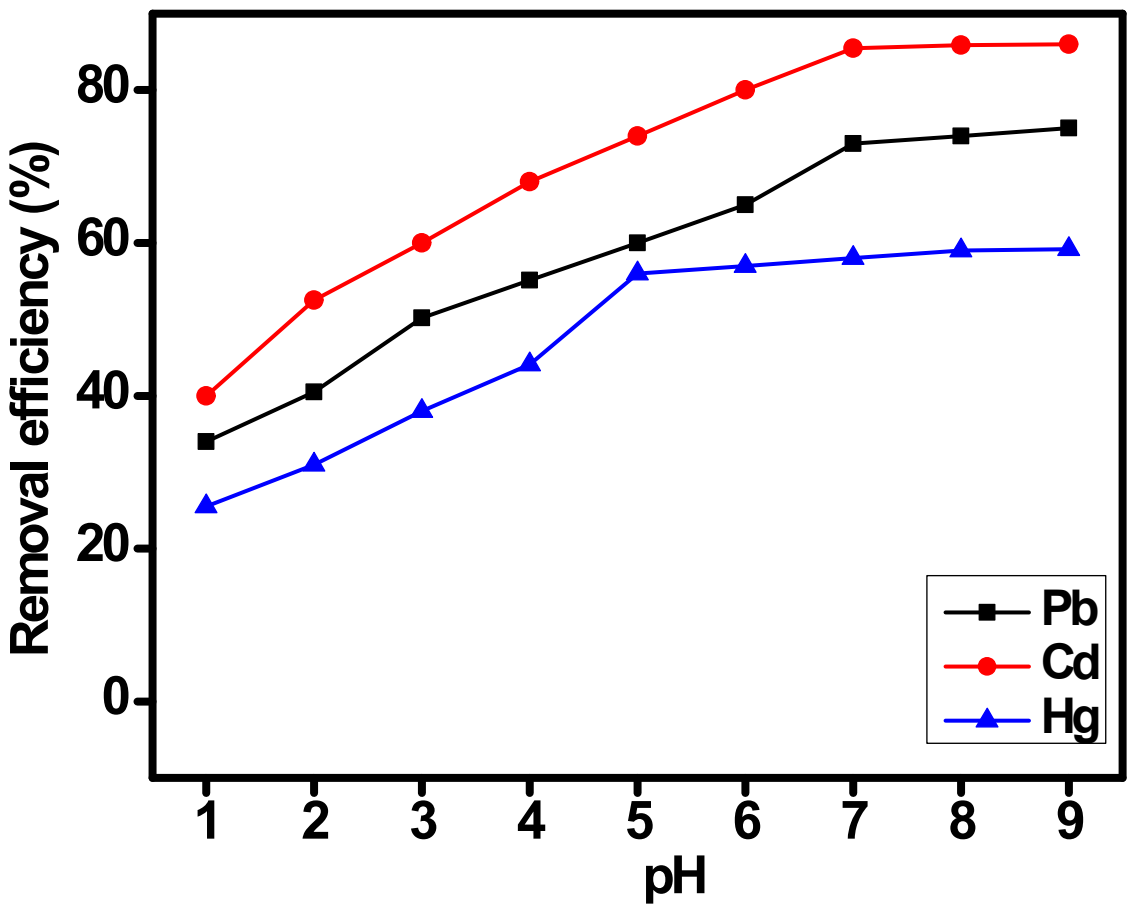

Figure S3. The adsorption of Pb^{2+}, Cd^{2+}, and Hg^{2+} on NSI-514 as a function of pH (ranging from 1.0 to 9.0) was characterized by the removal efficiency.

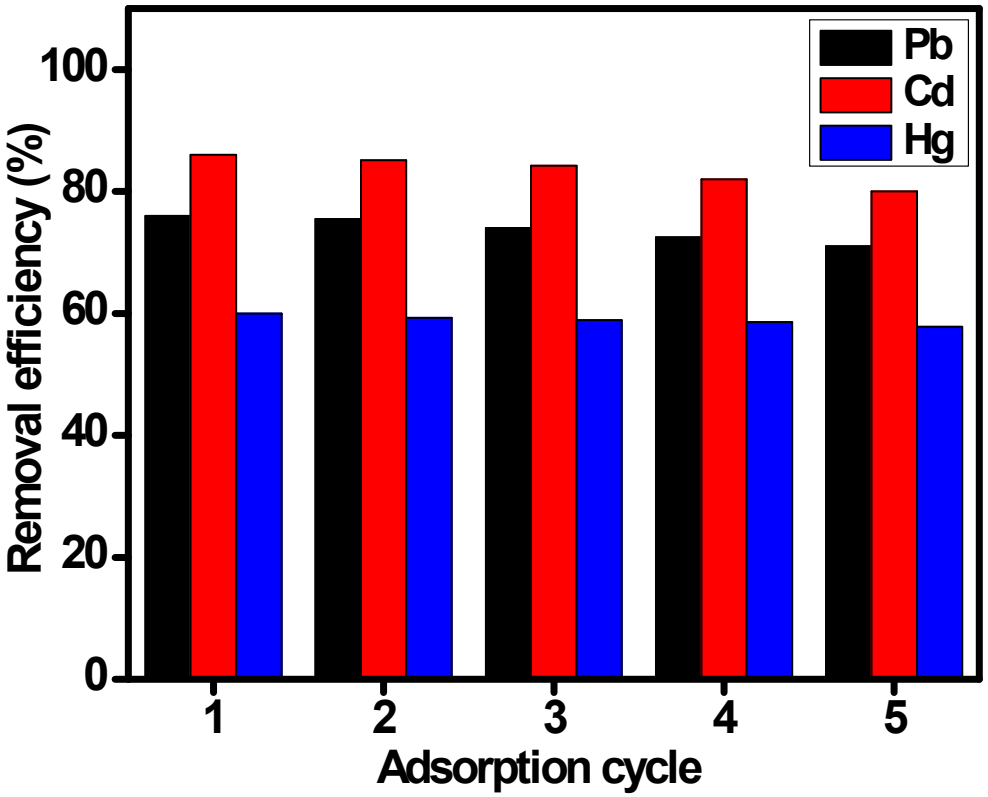

Figure S4. Recyclability of NIS-514 towards heavy metal ion (Pb, Cd and Hg) uptake.

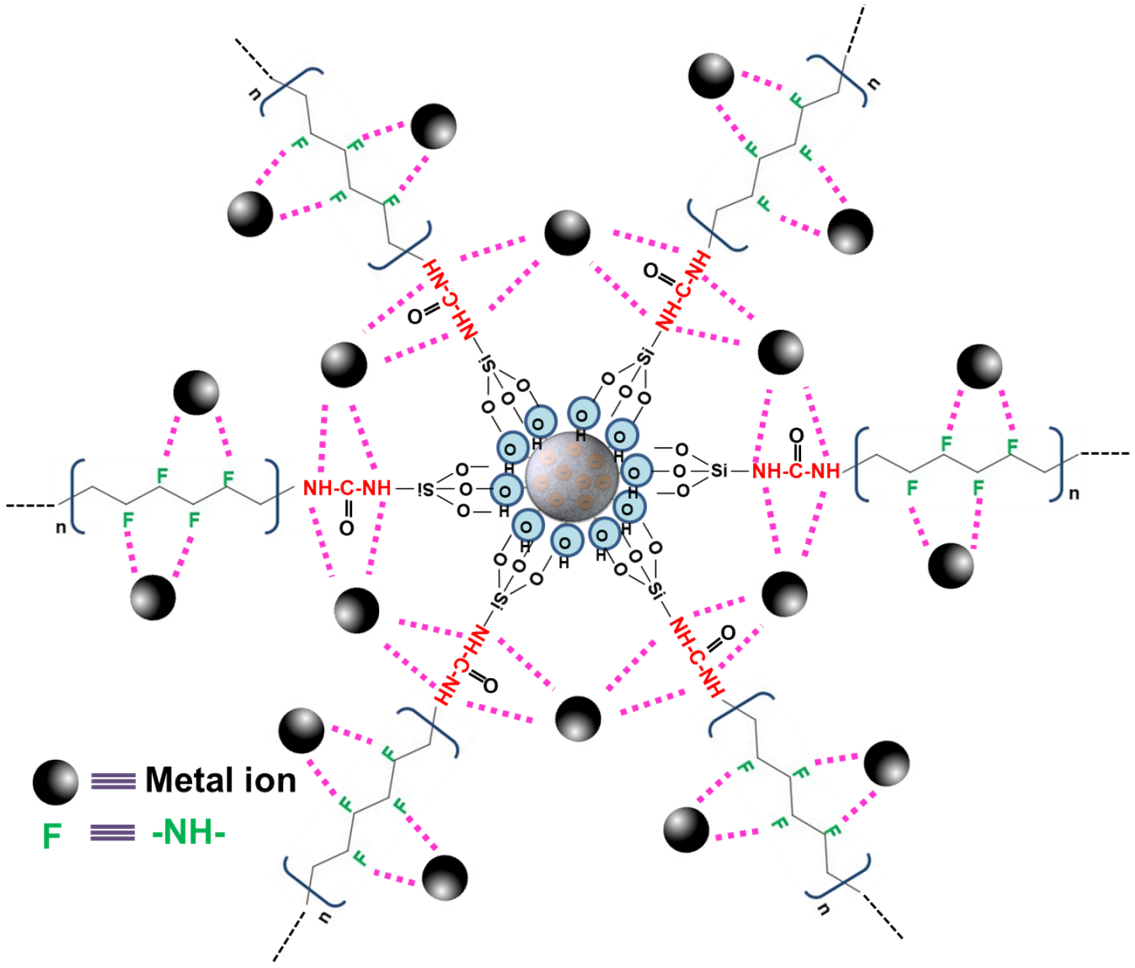

Figure S5. The chemisorption mechanism of Pb^{2+}, Cd^{2+}, and Hg^{2+} on PEI/MSN-nanoomposite silica materials.