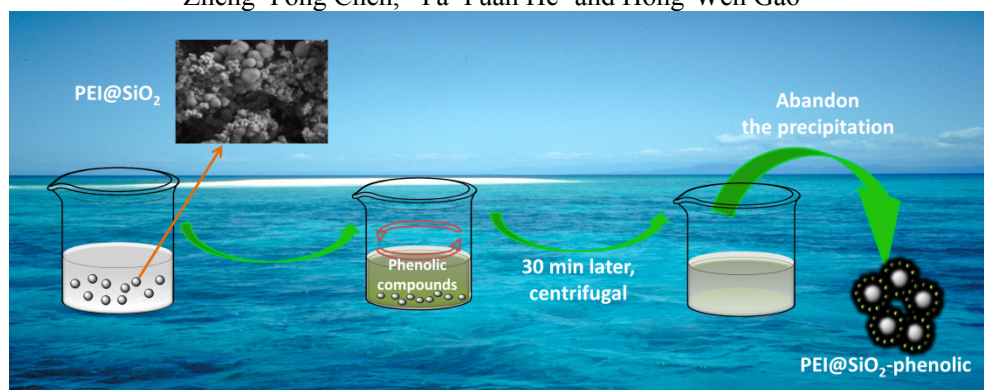


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PEI@SiO₂: synthesis from diatomite and application for capturing phenolic compounds from aqueous solution

Zheng-Yong Chen,^a Ya-Yuan He^a and Hong-Wen Gao^{*a}



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The PEI@SiO₂ hybrid composite was synthesized for sorption of phenolic compounds.

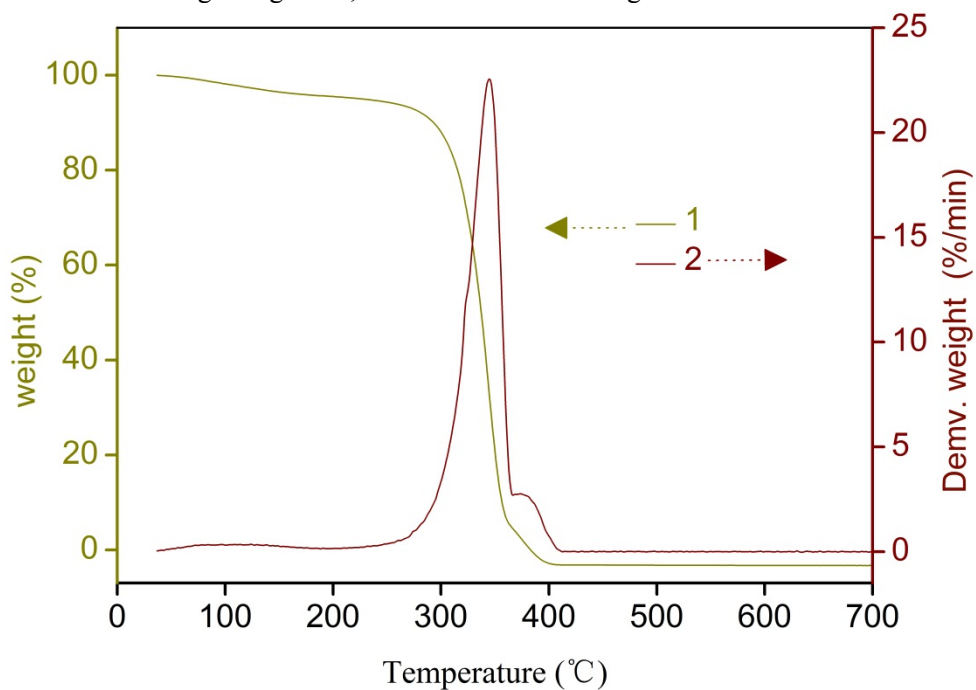
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Electronic Supplementary Information

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Fig. S1 DTA (1) and TGA of PEI (2)

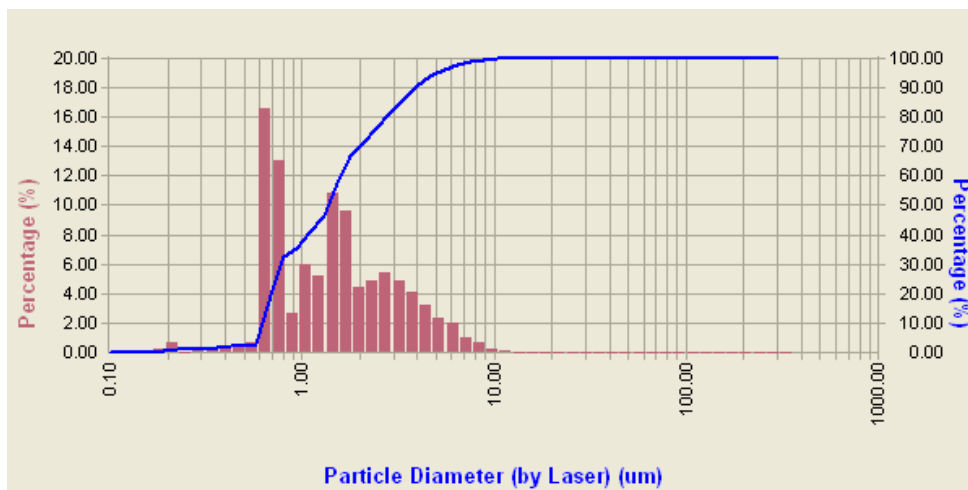


Fig. S2 Particle size distribution of the PEI@SiO₂

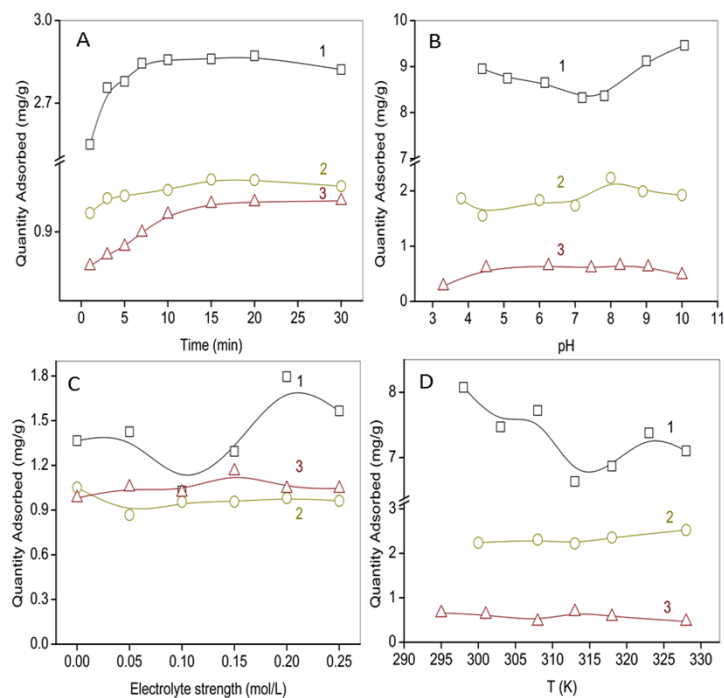


Fig. S3 **A:** the sorption curve of phenolic compounds (1- phenol, *o*-chlorophenol and 3- BPA) to the the PEI@SiO₂ at different times. **B:** the sorption curve of phenolic compounds (1- phenol, 2- *o*-5 chlorophenol and 3- BPA) to the the PEI@SiO₂ at different pH. **C:** the sorption curve of phenolic compounds (1- phenol, 2- *o*-chlorophenol and 3- BPA) to the the PEI@SiO₂ at different ionic strength. **D:** the sorption curve of phenolic compounds (1- phenol, 2- *o*-chlorophenol and 3- BPA) to the the PEI@SiO₂ at different temperature.