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Electronic Supplementary Information

Interactive Metal Ion-Silicon Oxidation/Reduction Processes on Fumed Silica

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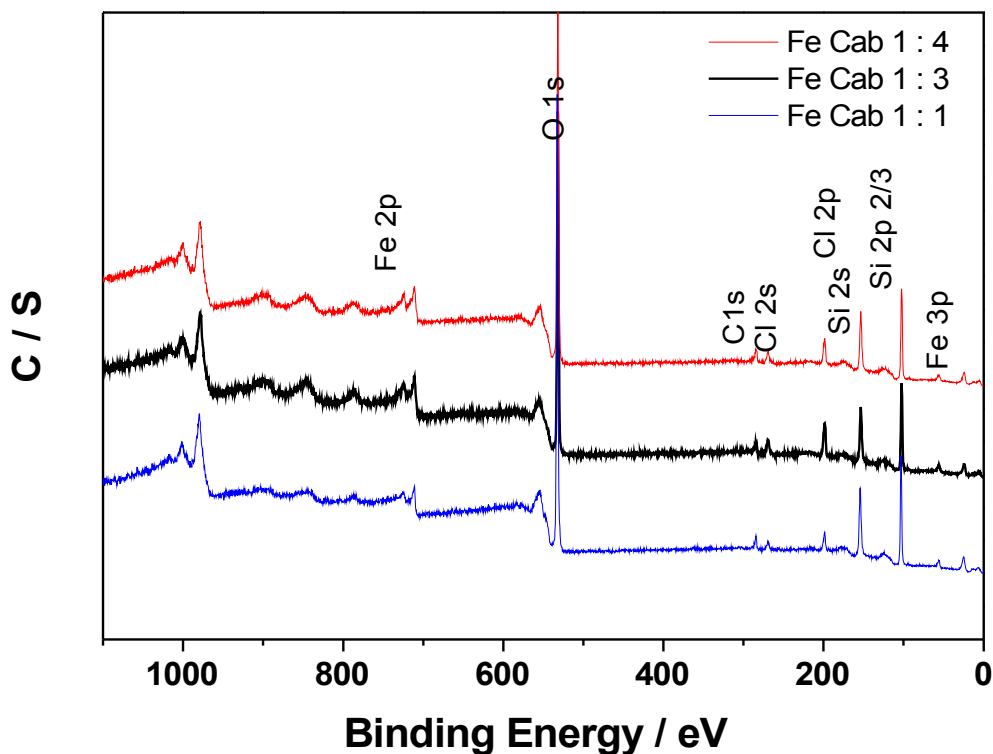
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Figure S1: Core-level XPS spectra for Fe-Cab samples, Survey Scan

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Figure S2: Water Contact Angle Data for CAB-O-SIL Sample

Figure S3: Core-level XPS spectra for Cu-Cab samples, Survey Scan

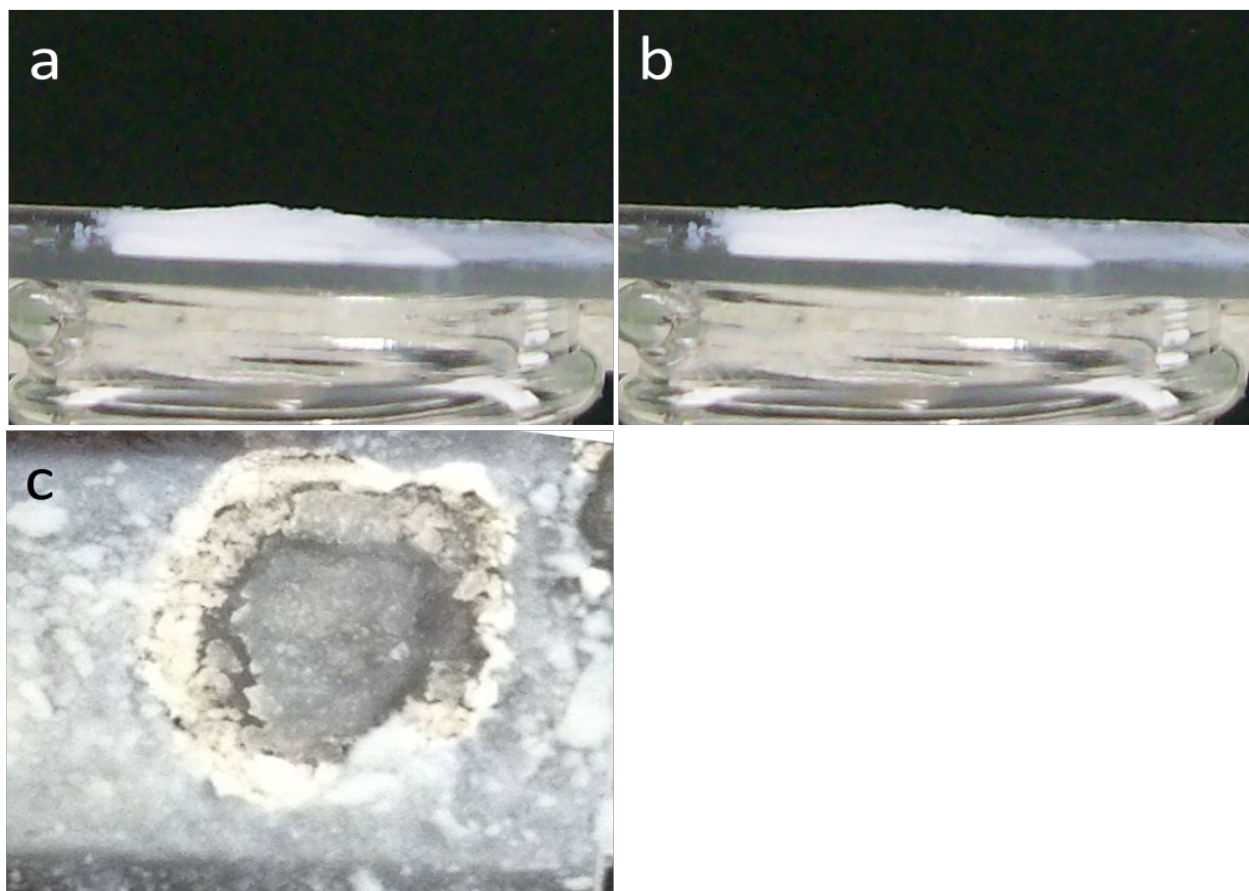


5 **Figure S1:** Core-level XPS spectra for Fe-Cab samples as indicated in the figure. Top spectrum is Fe Cab 1:4 sample; middle spectrum is for Fe Cab 1:3 sample, and bottom spectrum is for Fe Cab 1:1 sample.

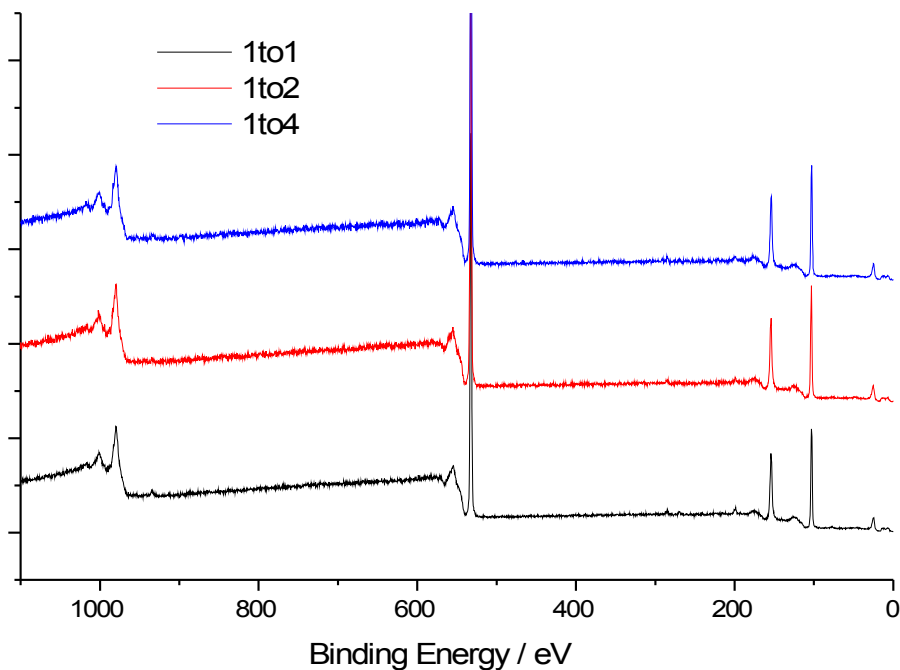
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5 **Figure S2:** (a) side view before water droplet is introduced to the CAB-O-SIL surface (b) side view after a water droplet has been introduced (c) front view after a water droplet was introduced.



- 5 **Figure S3:** Core-level XPS spectra for Cu-Cab samples as indicated in the figure. Top spectrum is Cu Cab 1:4 sample; middle spectrum is for Cu Cab 1:2 sample, and bottom spectrum is for Cu Cab 1:1 sample.