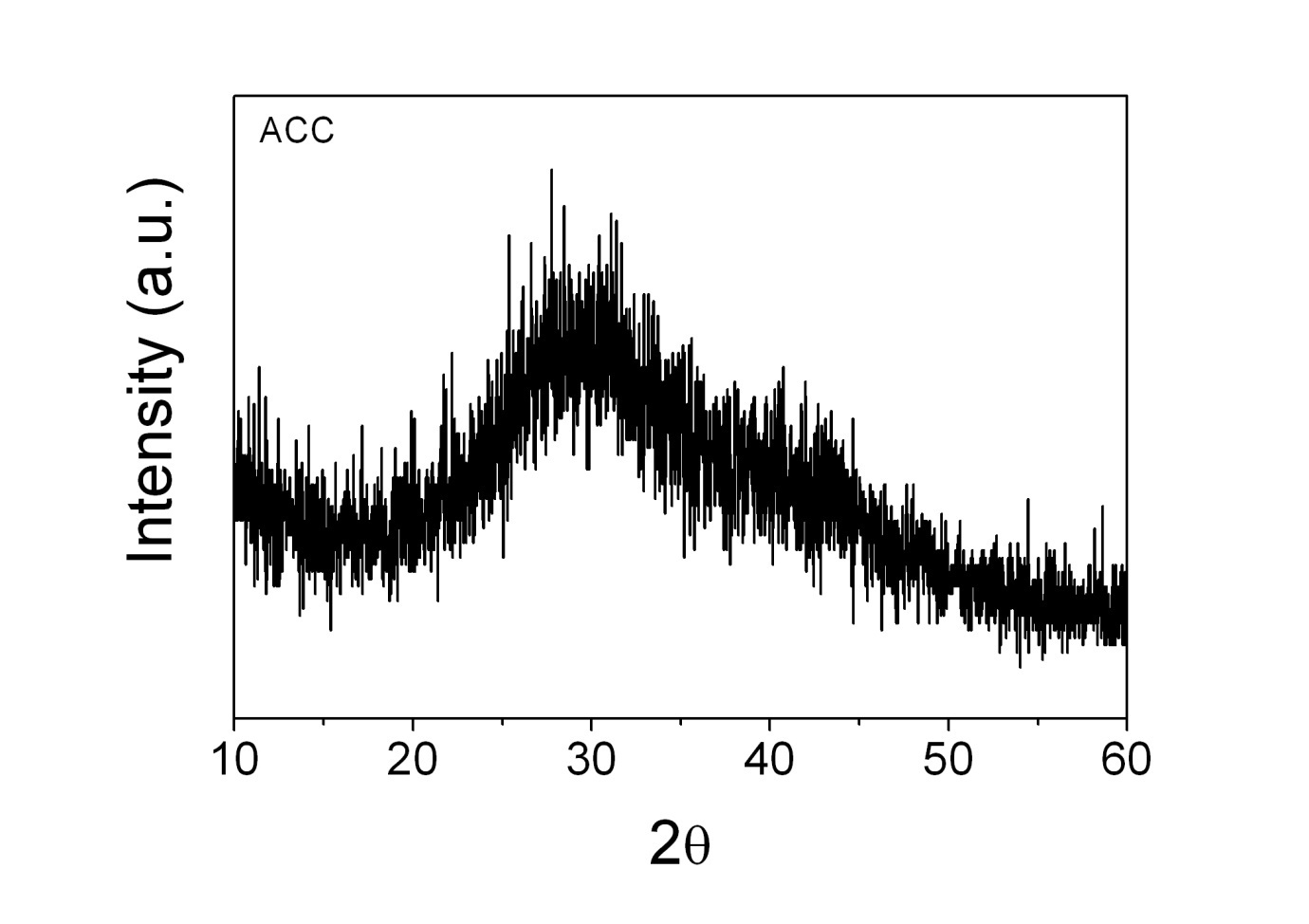
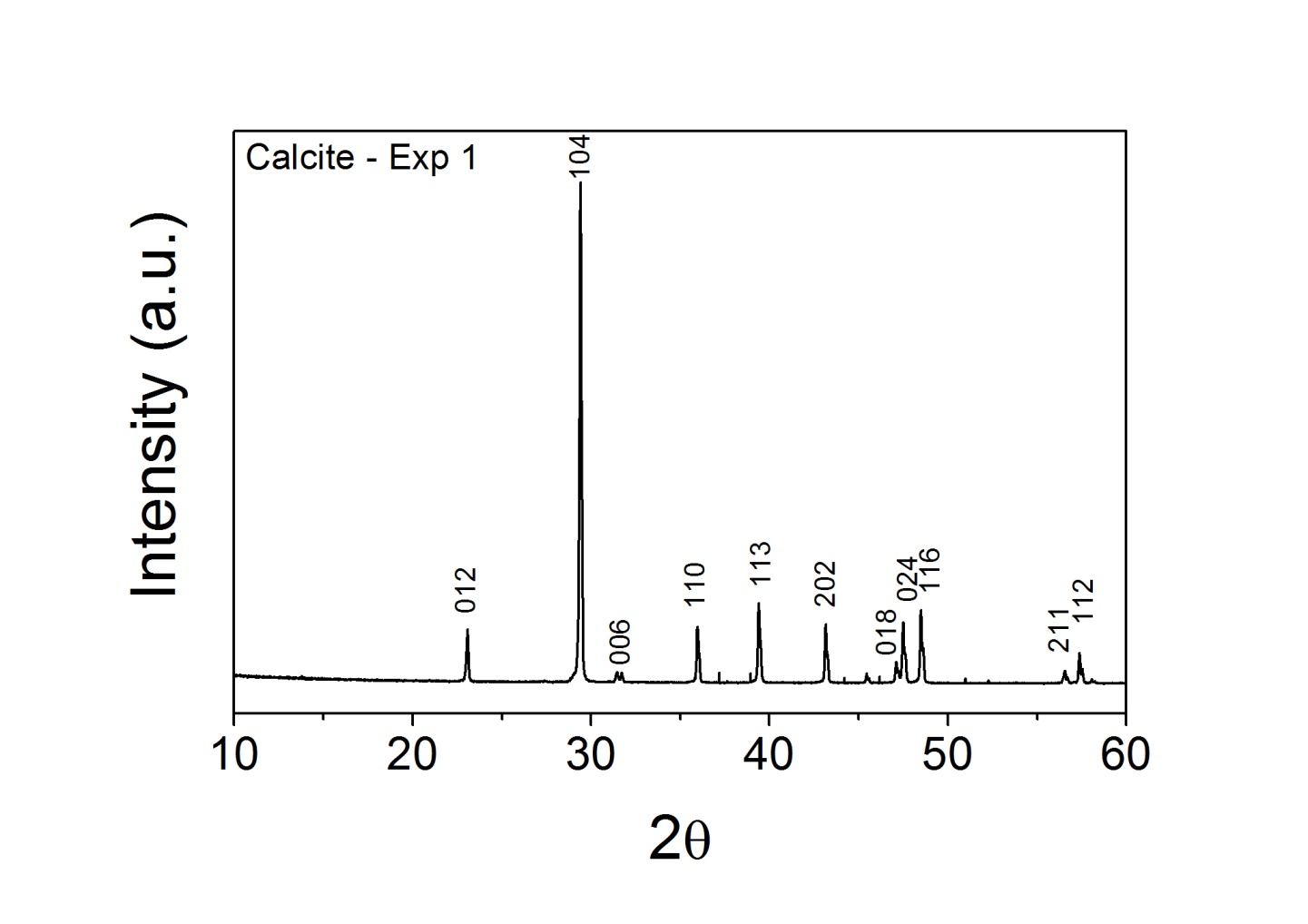


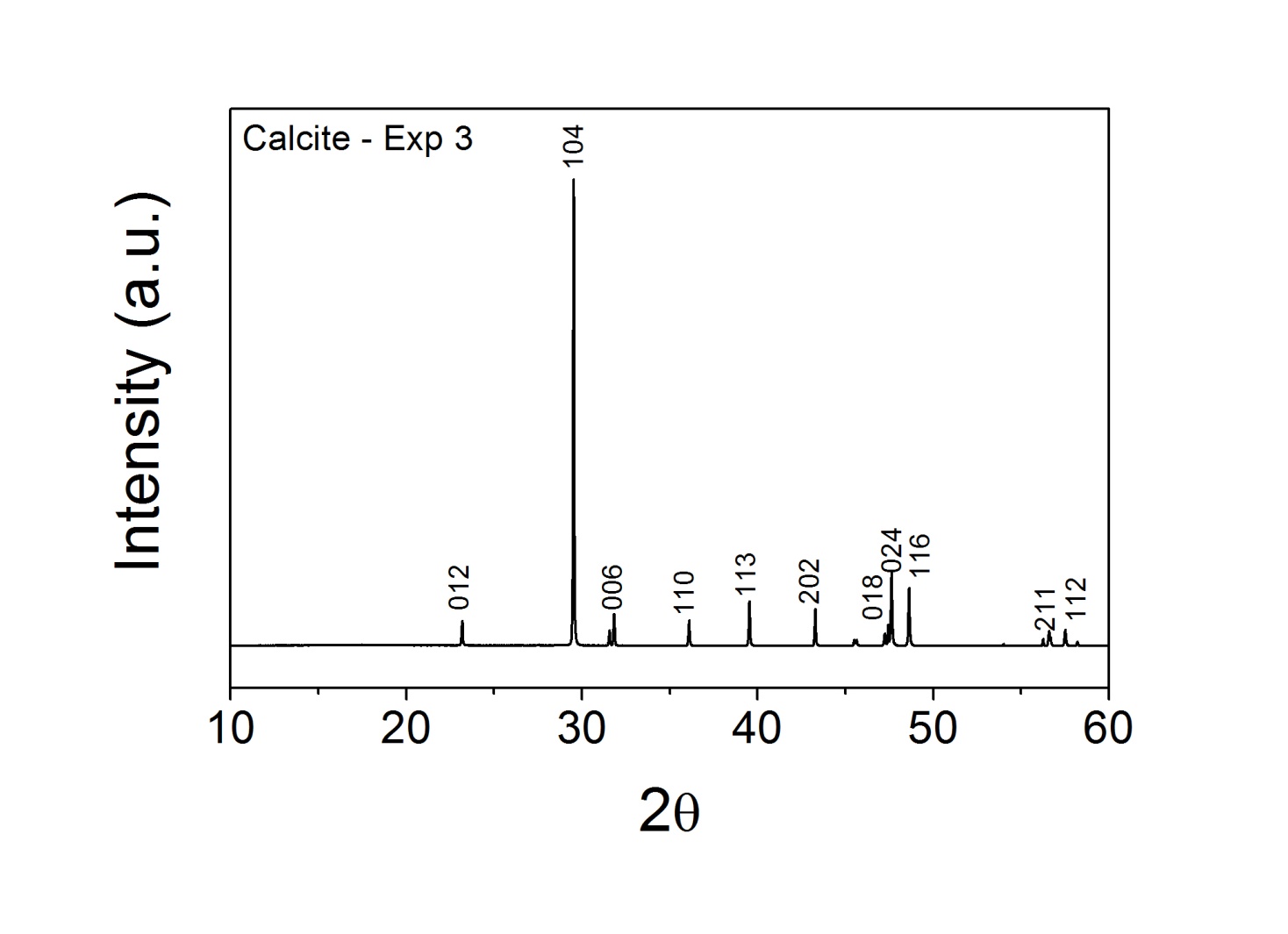
**Figure S1**: Evolution of the pH as a function of time for *experiments 1 and 2*.



**Figure S2**: Representative XRD pattern of ACC obtained immediately after mixing of solutions in all experiments.



**Figure S3**: XRD pattern of calcite obtained as a final product in *experiment 1*.



**Figure S4**: XRD pattern of calcite obtained as a final product in *experiment 3*.

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**Figure S5**: Photomicrograph of calcite crystals obtained as an end product of *experiment 1*.