

Efficient purification of wastewater by applying mechanical force and BaCO₃/TiO₂ and BaTiO₃/TiO₂ Piezocatalysts

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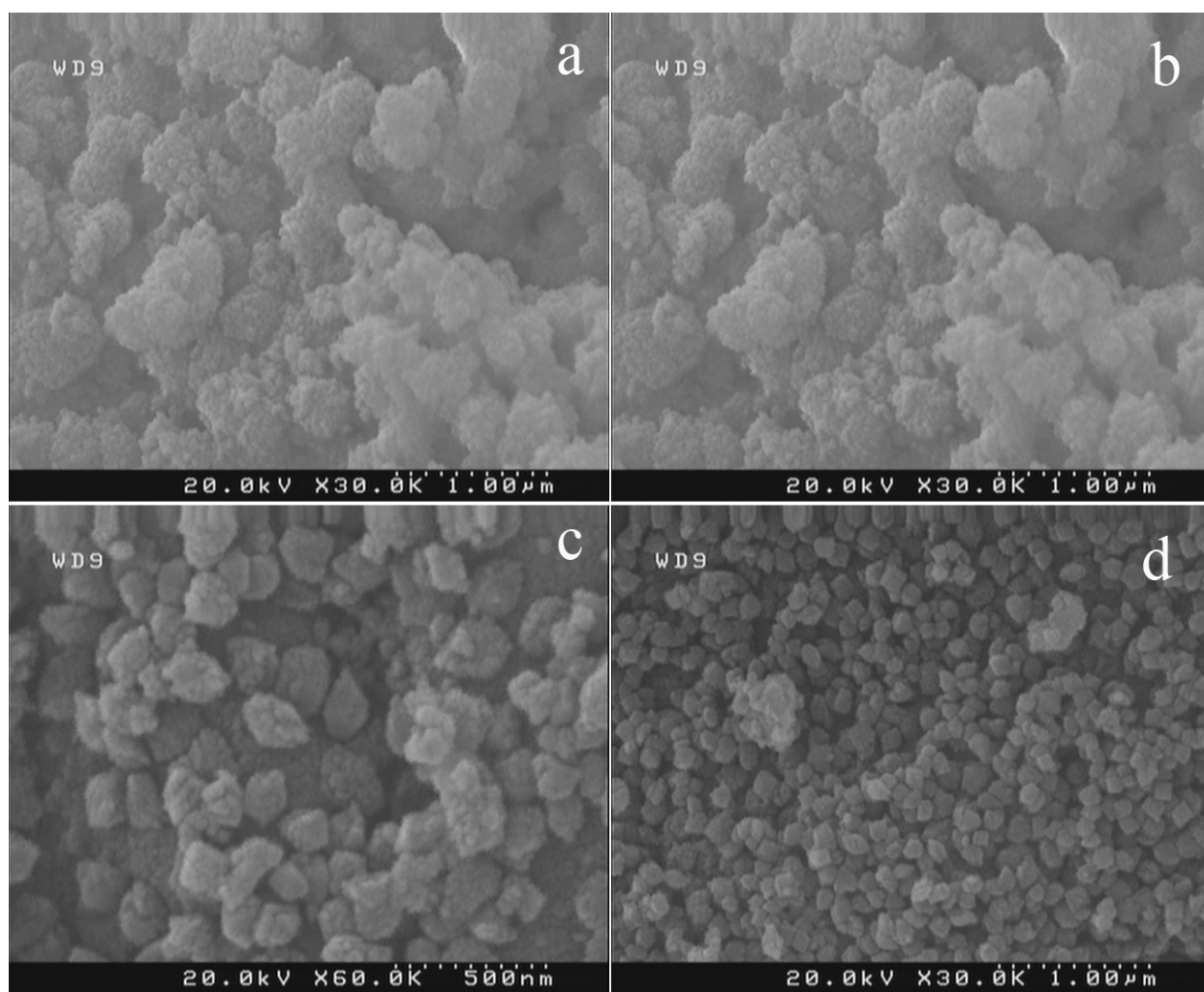


Fig. S1. SEM images for sample prepared at 140 °C (a, b) and 180 °C (c, d).

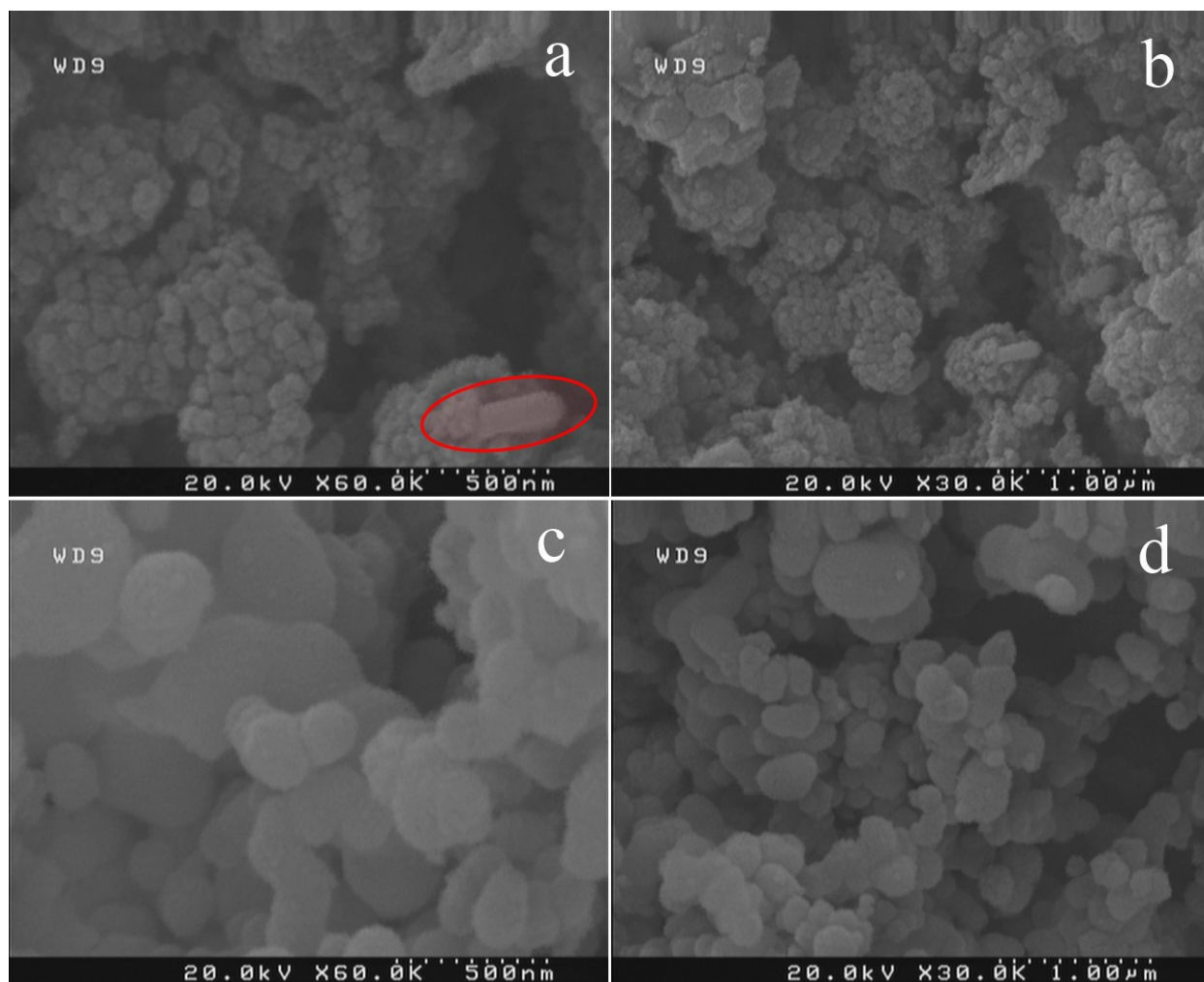


Fig. S2. Effect of reaction time on the morphology of final products: a, b) 4 h and c, d) 8 h.

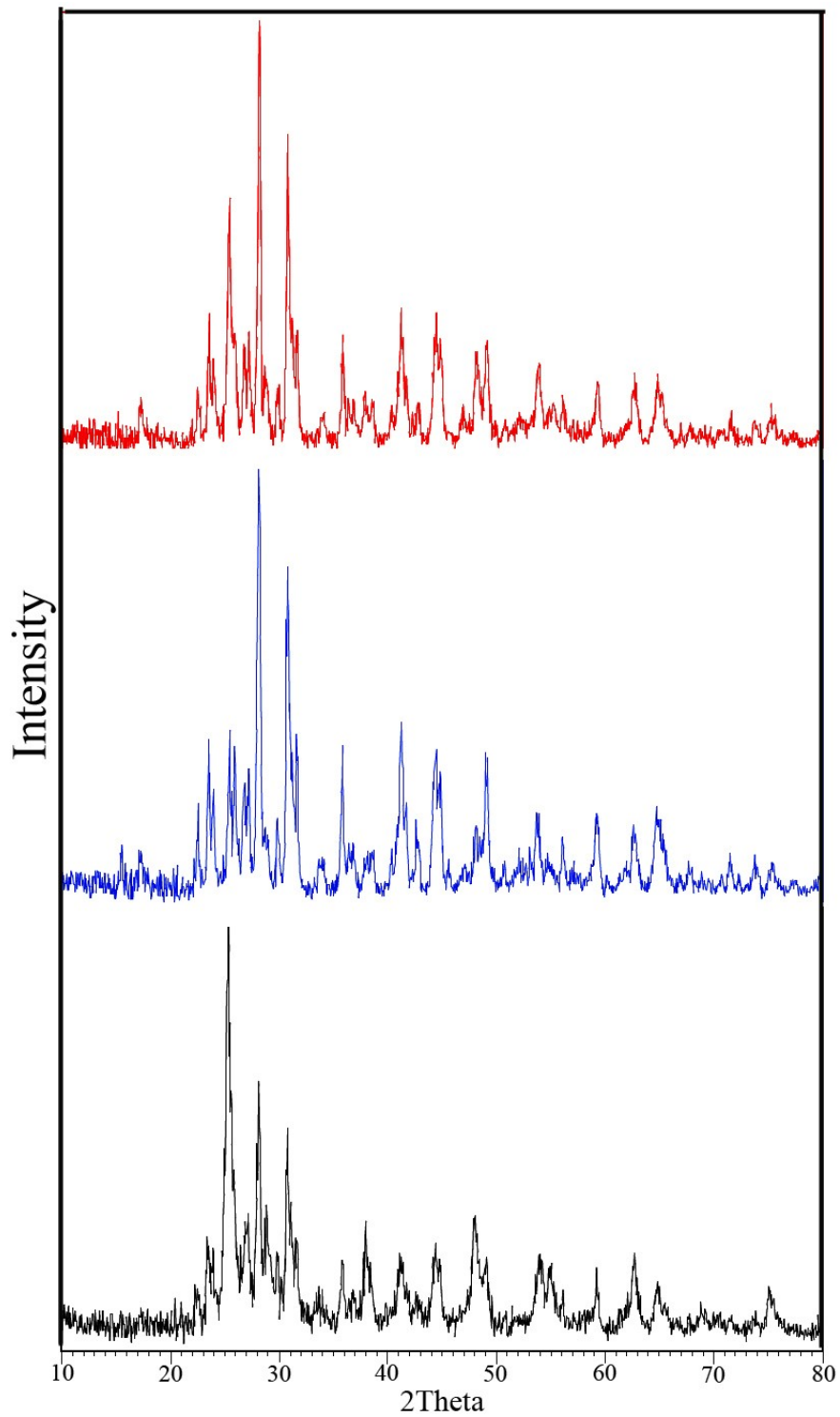


Fig. S3. XRD pattern of sample 1 (a), sample 2 (b), and sample 3 (c) after calcination at 750 °C for 2h.

Table 1. Experimental detail for preparing a typical piezocatalyst.

Sample Number	Reaction Time (h)	Reaction Temperature (°C)	Surfactant
1	6	160	-----
2	6	160	plum
3	6	160	apricot
4	6	160	peach
5	6	160	melon
6	6	140	-----
7	6	180	-----
8	4	160	-----
9	8	160	-----

Table S2. Effect of reaction temperature during synthesis of catalyst on the degradation efficiency of AR151.

Catalyst	Vibration Time (h)	Vibration Power (W)	Pollutant	Degradation Efficiency (%)
T1	2	100	AR151	95.4
T2	2	100	AR151	78.4
T3	2	100	AR151	96.7