Electronic Supporting Information (ESI)

{110} facets predominated $Bi_6O_6(OH)_3(NO_3)_3 \cdot 1.5H_2O$ photocatalyst: selectively hydrothermal synthesis and superior photocatalytic activity for degradation of phenol

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Table S1 The hydrothermal samples prepared at variable temperatures and times.

Sample	1	2	3	4	5	6	7	8	9	10
Temperature	120 °C	120 °C	120 °C	120 °C	120 °C	120 °C	80 °C	100 °C	160 °C	200 °C
Time	0 min	30 min	50 min	2 h	8 h	12 h	8 h	8 h	8 h	8 h

Table S2 Regression equations and correlation coefficient R for different intermediate substances.

substance	**Regression equation**	**R**
catechol	y=1803.43x+0.032	0.9996
hydroquinone	y=3582.4x+0.025	0.9999
resorcinol	y=3737.14x+0.038	0.9977

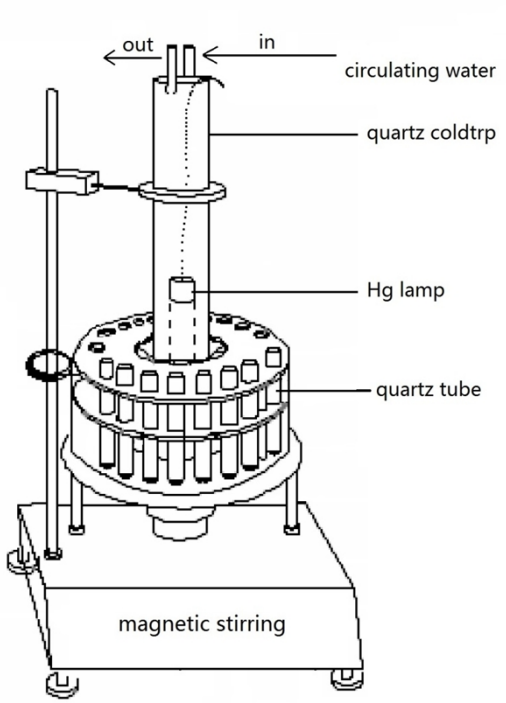

Figure S1 the schematic illustration of the photoreactor.

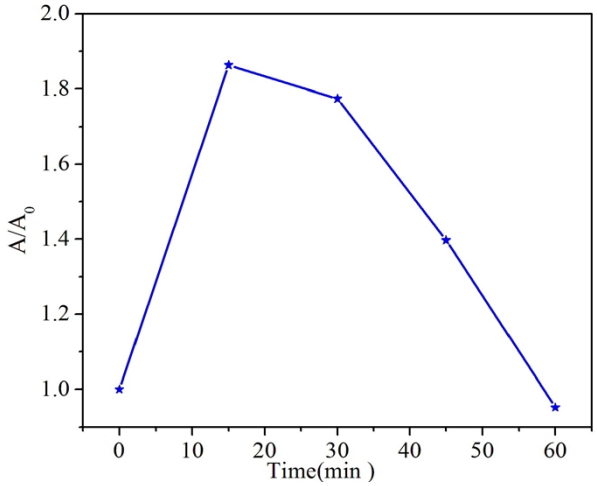

Figure S2 Direct photolysis of phenol under UV-light irradiation

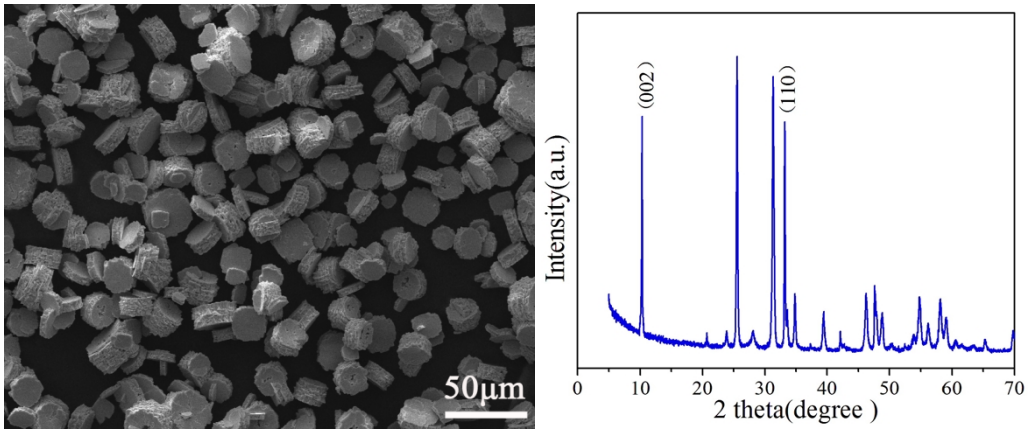

Figure S3 SEM images and corresponding XRD pattern of BBN-12h.

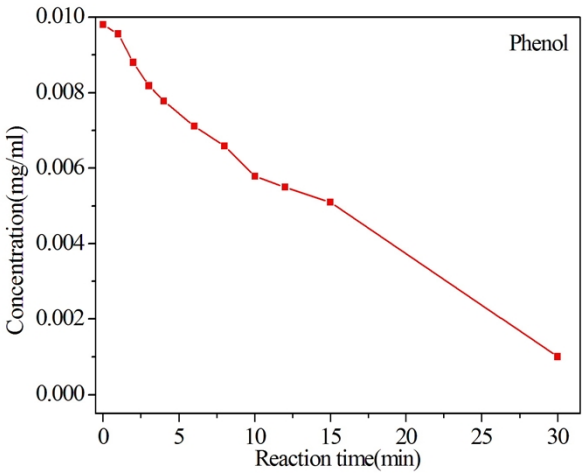

Figure S4 concentrations of phenol during the photocatalysis.