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(54) **PHOTOCATALYTIC DEGRADATION OF PHARMACEUTICAL DRUGS AND DYES USING VISIBLE ACTIVE BIOX PHOTOCATALYST**

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(58) **Field of Classification Search**

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USPC 502/208, 216, 353

See application file for complete search history.

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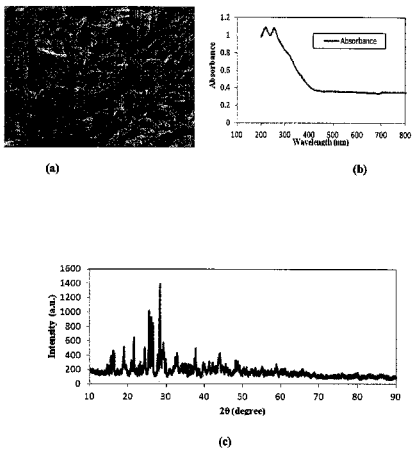
(57) **ABSTRACT**

Provided is a visible active photocatalyst of formula BiOX wherein X=P or S and process of preparation and use thereof. Use of the catalyst is demonstrated in the photocatalytic degradation of pharmaceutical drug pollutants and pollutant dyes using solar radiation or artificial radiation.

17 Claims, 8 Drawing Sheets