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Autore	Pitt John I.
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Autore	Ikram Muhammad
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Nota di contenuto	1. Bismuth based materials -- 1.1. Bismuth -- 1.2. Properties of bismuth -- 1.3. Bismuth based materials -- 1.4. Synthesis of bismuth-based photocatalysts 2. Overview and synthesis route of BiOX -- 2.1. Hydrothermal method -- 2.2. Solvothermal method -- 2.3. Hydrolysis method -- 2.4. Precipitation method -- 2.5. Ultrasonic/microwave-assisted method -- 2.6. Two-phase method -- 2.7. Physical method 3. Efforts to improve the efficiency of BiOX photocatalysts -- 3.1. Heterojunction -- 3.2. Elemental doping -- 3.3. Defect engineering -- 3.4. Thickness tuning -- 3.5. Strain modulation -- 3.6. Facet control -- 3.7. Solid solution -- 3.8. Microstructure modulation -- 3.9. Bismuth-rich strategy -- 3.10. Carbonaceous materials compounding 4. Air purification and energy applications -- 4.1. Photocatalyst -- 4.2. Photocatalytic mechanisms -- 4.3. Photocatalytic oxygen (O2) evolution

-- 4.4. Photocatalytic hydrogen evolution -- 4.5. Photocatalytic nitrogen fixation -- 4.6. Carbon dioxide photoreduction -- 4.7. Organic syntheses
5. Water purification applications -- 5.1. Water pollution -- 5.2. BiOX photocatalysts : principle pollutant degradation mechanism -- 5.3. Degradation of organic pollutants -- 5.4. The removal of heavy metals -- 5.5. Water disinfection -- 6. Future prospects.

Sommario/riassunto

This reference text covers the recent developments in the synthesis of bismuth oxyhalides (BiOX) and their applications in the production of energy, as well as the purification of the environment and wastewater.
