

Progress in advanced MOF-derived materials for the removal of organic and inorganic pollutants

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- Recent advances in the structural design and compositional modulation of MOF-derived materials are analyzed.
- The excellent performance of MOF-derived materials in removing organic and inorganic pollutants is systematically demonstrated.
- The key mechanisms of adsorption and catalytic degradation of MOF-derived materials are explored, providing a solid theoretical foundation for developing environmental purification technologies.
- The efficacy and stability of MOF-derived materials were evaluated in actual environmental remediation projects.
- Prospective guidance and optimization suggestions for the research of MOF-derived materials in environmental remediation are proposed.