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In this review, recent advances in functional protein-organic/inorganic hybrid nanomaterials are discussed with an emphasis on the novel preparation methods, resulting nanostructures, and their potential applications in drug delivery and enzymatic catalysis. Future directions toward the rational design of these bionanomaterials are suggested.

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Very recently, organic-inorganic hybrid nanomaterials as electrocatalysts have exhibited high perfor-

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Protein-organic/inorganic hybrid nanomaterials, though in its infancy, have shown unprecedented opportunities for improving biological functions of proteins and expanded potential applications in areas such as drug delivery, biosensors, bioanalytical devices, and industrial biocatalysis.

Hybrid silicon-based organic/inorganic (multi)block copolymers are promising polymeric precursors to create robust nano-objects and nanomaterials due to their sol-gel active moieties via self-assembly in solution or in bulk. Such nano-objects and nanomaterials have great potential in biomedicine as nanocarriers or scaffolds for bone regeneration as well as in materials science as Pickering emulsifiers, photonic crystals or coatings/films with antibiofouling, antibacterial or water ...

The description and discussion of the major applications of hybrid inorganic-organic (or biologic) materials are the major topic of this critical review. Indeed, today the very large set of accessible hybrid materials span a wide spectrum of properties which yield the emergence of innovative industrial applications in various domains such as optics, micro-electronics, transportation, health, energy, housing, and the environment among others (526 references).

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Researchers have indicated that organic-inorganic hybrid nanocomposite membranes have significantly higher water flux, mechanical strength, selectivity, stability and hydrophilicity compared with conventional polymeric FO membranes. 22-24 The main objectives of incorporating inorganic nanomaterials into FO membranes are obtaining ideal structures to mitigate ICP, reducing membrane fouling and overcoming the trade-off effect.

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Advances

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