

## Advanced Composite Materials in Ship and Marine Engineering

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Composite materials have many advantages in the application of ship and marine engineering.

The composite materials used in ship and marine engineering are mainly fiber reinforced materials, such as carbon fiber composite materials and glass fiber composite materials. This report will introduce the development, application and development trend of composite materials in shipbuilding and ocean engineering.



Prof. Yingjie Qiao's research activities center on design, preparation, analysis and evaluation of ceramic matrix composite material, resin matrix composite material and sensitive material devices, which can be widely used in the field of aerospace, ship, oceaneering etc. Lots of works have been done to fill the domestic blank or/and to reach the advanced level of the similar foreign products. Simultaneously, the research enriched the basic theory of material science and had a certain economic benefits.

### Academic position

- Director of Institute of Materials Structure and Function Integration, Harbin Engineering University
- Vice Director of Lightweight Materials and Surface Technology Key Laboratory of the Ministry of Education
- Honorary Director of Chinese Society for Composite Materials
- Standing Director of China Instrument Materials Society