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Polymer blends and composites,
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Research Area

Reinforcement of Natural Rubber and Tire Technology

- Silica-reinforced natural rubber for tire applications
- Functionalized natural rubber as compatibilizer for rubber-filler systems
- Development of tire rubber compounds for safe and eco-friendly transportation

Nanocomposites

- Strain-induced crystallization of NR nanocomposites
- NR-based blend nanocomposites
- NR-based blend nanocomposite foams

Thermoplastic Elastomers

- NR-based elastomer blends and TPEs
- High-performance TPEs
- Fire-retardant TPEs

Latex Technology

- Organic filler in latex
- Latex coating for corrosive protection

Chemical Modification of Natural Rubber

- Polyurethane prepared by natural rubber-based polyol
- Modified natural rubber-based adhesives
- Photoluminescent NR with long after glow properties
- Modification of NR to use as photosensitive polymers

Rubber Recycling

- Recycled rubbers as blending components
- Devulcanization of tire rubber