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RESEARCH HIGHLIGHTS

1. Electrospun Polymer Nanofibers

Electrospun polymer nanofibers were prepared using electrospinning technique. The nanofibers were utilized in many applications such as sensors [1], scaffold for tissue engineering [2], production of carbon nanofibers [3] and controlled release of drug [4].

References

- [1] Synthetic Metals 191 (2014) 151–160
- [2] Synthetic Metals 160 (2010) 2015–2022
- [3] Molecules 2020, 25, 3081
- [4] Fibers 2019, 7, 56

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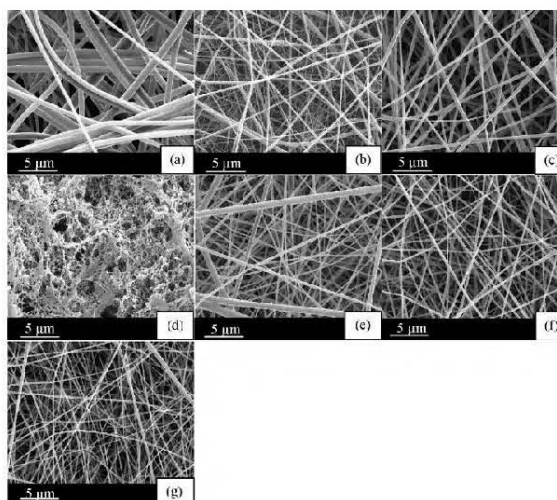


Fig. 5. SEM images of the products of electrospinning solutions of: (a) PLA, (b) PLA/PANI (0.84 wt%), (c) PLA/PANI (3.27 wt%), (d) PLA/PANI (5.13 wt%), (e) PLA/PANI (6.80 wt%), (f) PLA/PANI-co-m-ABA (60/40) (1.57 wt%), (g) PLA/PANI-co-m-ABA (60/40) (2.99 wt%) and (h) PLA/PANI-co-m-ABA (60/40) (5.80 wt%).

2. Polymer Composite

Autonomic self-healing materials, where initiation of repair is integral to the material, are being developed for engineering applications. This bio-inspired concept represents the forefront of recent developments in the material in chemistry and engineering. In this study, synthesis of self-healing natural rubber (NR) will be prepared by compositing NR with other substance.

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