



Polymers

an Open Access Journal by MDPI

CiteScore: 9.7

Indexed in PubMed

Impact Factor: 4.9

Special Issue Reprint

State-of-the-Art Polymer Science and Technology in Mexico

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The collection includes 15 original papers covering silver nanoparticles loaded on polyethylene terephthalate films, binary grafting onto PDMS films for the load and release of ciprofloxacin, the sorption of total petroleum hydrocarbons in microplastics, the synthesis of PMMA microspheres with tunable diameters, crosslinked chitosan films supplemented with *Randia* sp. fruit extract, a biodegradability assessment of prickly pear waste-polymer fibers, the dielectric and viscoelastic behavior of polyvinyl butyral films, the influence of reduced graphene oxide and carbon nanotubes on properties of chitosan films, the formation of olive-like TiO₂ nanospheres using the sol-gel method, the characterization of covalent pectin/arabinoxylan hydrogels, surface modification of gold nanorods using responsive copolymers, the impact of combined thermo- and photo-oxidation on the properties of polyethylene films, xyloglucan extracted from *Tamarindus indica* L. seeds at a semi-industrial scale, the analysis of ATRP process for polyacrylamide brush synthesis through infrared spectroscopy, and UV exposure effects via VIS reflectance in automotive polymer components.

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