



# Synthesis and characterization of some polymer clay nanocomposites for industrial applications

Thesis submitted by

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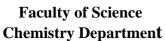
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#### List of abbreviations

PLSN Polymer-layered silicate nanocomposite

MMT Montomorillonite

N6 Nylon 6

CEC Cation exchange capacity

OMLS Organo-modified layered silicate

XRD X-ray diffraction

FTIR Fourier transform infrared spectroscopy

TEM Transmission electron microscopy

NMP Nitroxide-mediated polymerization

PMMA Poly(methyl methacrylate)

PS Polystyrene

PCNs Polymer-clay nanocomposites

TPO Thermoplastic olefin

Tg Glass transition temperature

PET Poly(ethylene terphthalate)

PVDF Poly(vinylidene fluoride)

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