

Supporting information

A solvent-free approach to crosslinked hydrophobic polymeric coatings on paper using vegetable oil

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Table S1: Attribution of IR spectral bands of oleic acid/thiol mixture to functional groups.^[23]

Wavenumber (cm ⁻¹)	Functional group
3005	H-C _{=cis}
2957	CH ₃
2924	CH ₂
2852	CH ₂
1709	C=O
1462	CH ₂
1434	CH ₃
1412	H-C _{=cis}
1378	CH ₃
1343	O-H
1283, 1246	CH ₂
1118	-C-O (ester)
1091	-C-O (ester)
998	C=C _{conj} * ^[20]
967	C=C _{trans} *
934	C=C _{cis}
723	C=C _{cis} and -(CH ₂) _n -

*only observed after crosslinking

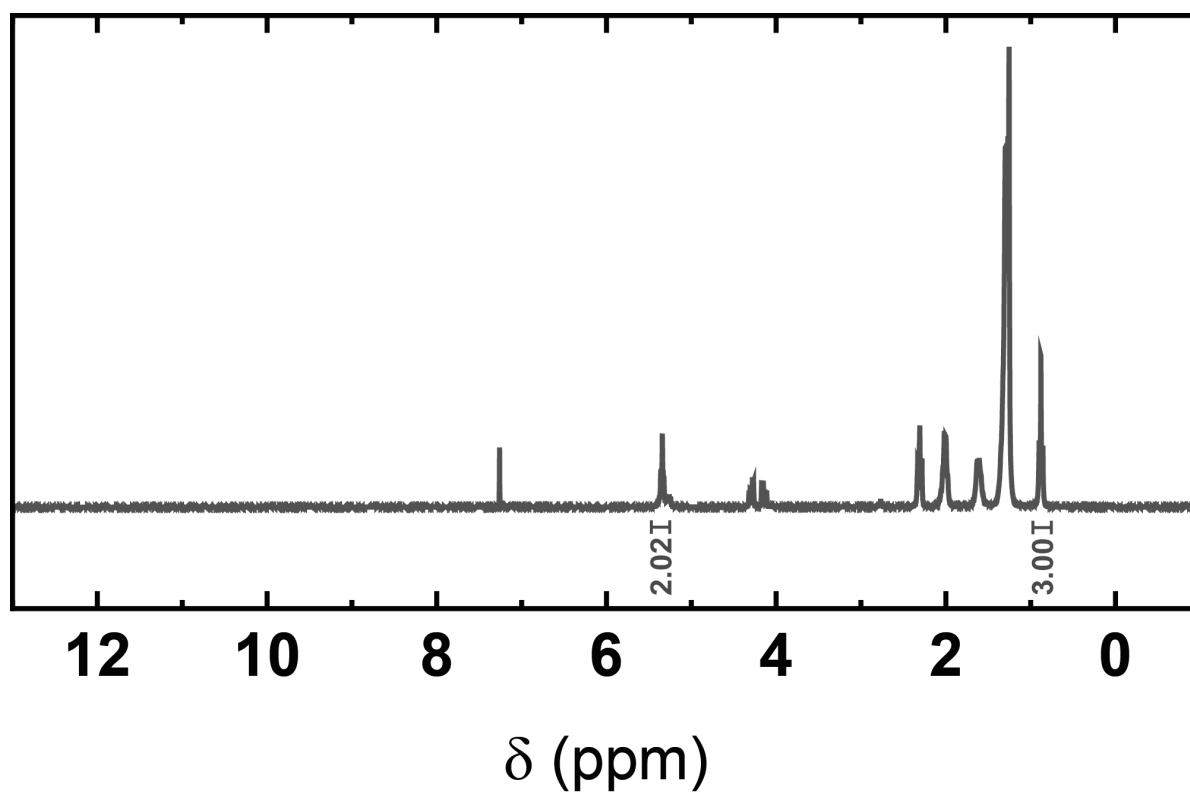


Figure S1: ^1H -NMR spectrum of olive oil.

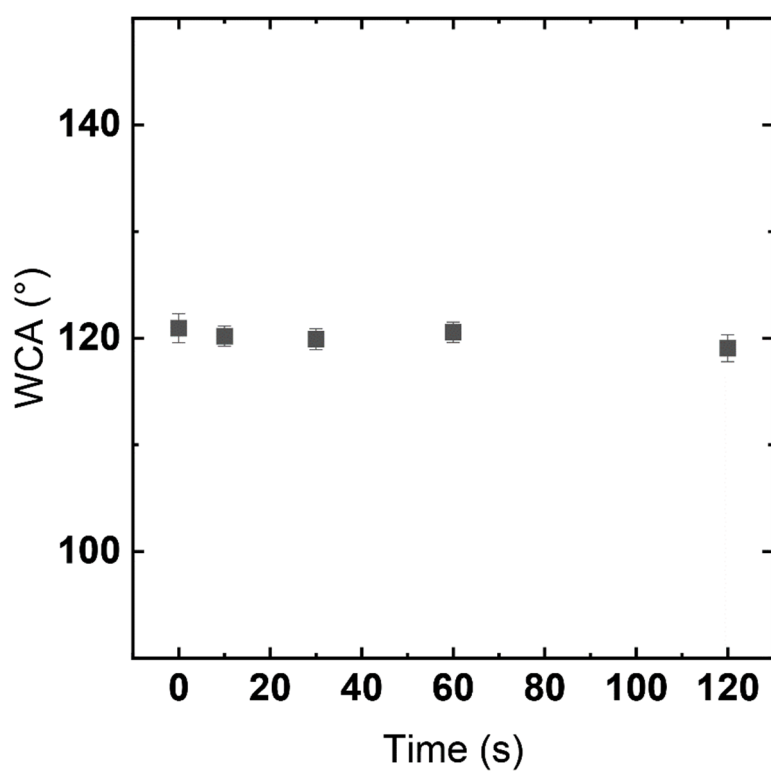


Figure S2: Time-dependent evolution of contact angles on cotton linters paper coated with crosslinked olive oil/1,8-ODT mixture.