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Characterization of Tannin-Furanic Foams by Raman Spectroscopy

Content

Rigid tannin-furanic foams are porous materials synthetized from wood industry products, and have potential applications as new materials for green-building technology, and possibly also for waste water purification. Within the Interreg Italy-Austria ITAT1023 InCIMa project (2017-2019), foam samples synthetized under varying chemical conditions at the Salzburg University of Applied Sciences have been characterized by Raman spectroscopy at the University of Salzburg and at the IUVS beamline of the Elettra synchrotron in Trieste. The additional synergistic complementation with several analytic techniques available at the Elettra synchrotron through the beamlines SISSI (Infrared), SYRMEP (microtomography), and SAXS (small angle X-ray scattering), performed within several CERIC proposals, enables us to more deeply characterize, and in future subsequent steps optimize, these materials.

Best Poster Award

No

Theoretical Work

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