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Ultrasonic Technology for Value Added Products from Feather Keratin

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Research highlights

- The research focuses on the improved dissolution of feather waste by using ultrasound technology as compared to the conventional, temperature-focused dissolution method.
- The processing time was shortened by about 90% with ultrasound technology, when pure ionic liquid was used, at lower temperature.
- With the reduction of 65% of ionic liquid used, the processing time was still improved by 55%, at lower temperature.
- Regenerated material obtained shows no presence of additional functional group, and was proven to preserve its protein backbone structure.

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