

Structure-function relationships of deep eutectic solvents for lignin extraction and chemical transformation

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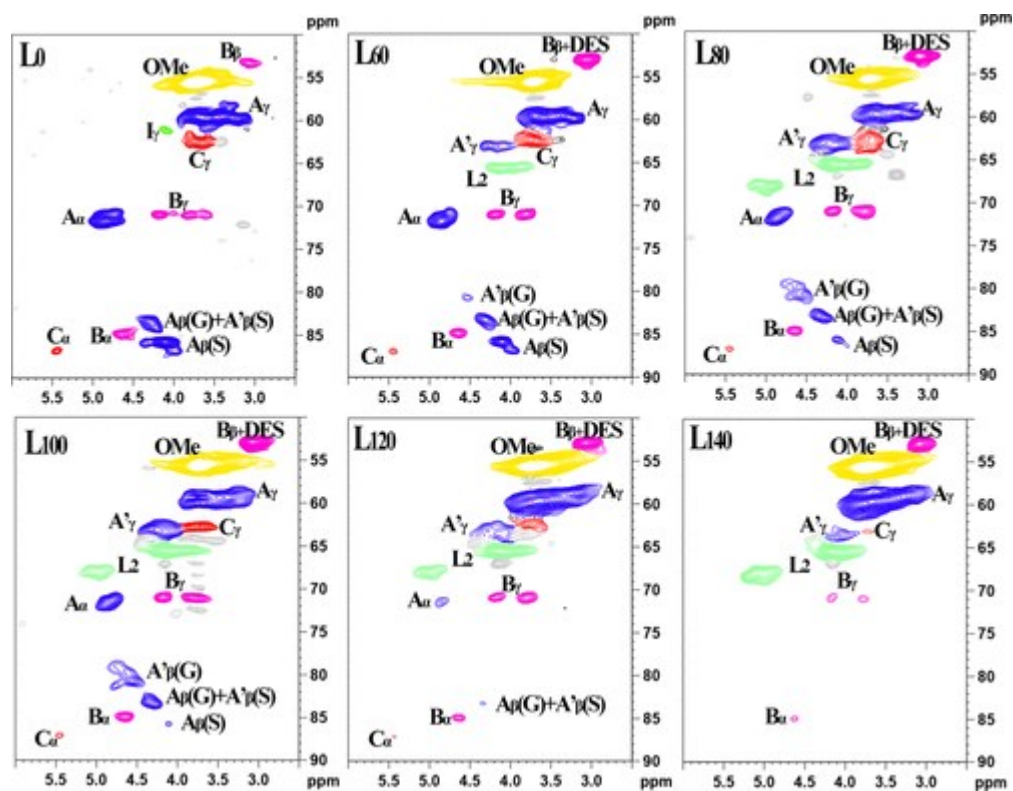


Fig. S1 Side-chain in the 2D HSQC NMR spectra of the lignins.¹ Lignin: (A) β -O-4' aryl ether linkages with a free-OH at the γ -carbon; (A') β -O-4' aryl ether linkages with acylated; (B) resinol substructures formed by β - β , α -O- γ , and γ -O- α linkages; (C) phenylcoumaran substructures formed by β -5 and α -O-4' linkages; (L) lactic acid; (I) p-hydroxycinnamyl alcohol end groups; (G) guaiacyl units; (S) syringyl units; (S') oxidized syringyl units with a C α ketone.

Reference:

1. X. J. Shen, J. L. Wen, T. Y. Chen, H. M. Wang, Q. Q. Mei, F. X. Yue and T. Q. Yuan, *ACS Sustain. Chem. Eng.*, 2019, 8, 2130-2137.