

Synthesis of Vanillin by Oxidation of Kenaf Stalks in the Presence of CeO₂: Tuning of Catalytic Behaviour of CeO₂ via Nanostructures Morphology

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Supplementary Material

No	Compound	Retention time (min)	Area (%)
1.	Coumaran	12.69	13.96
2.	4-vinylguaiacol	14.25	4.37
3.	Syringol	14.87	11.52
4.	Vanillin	15.81	17.90
5.	4-propylguaiacol	16.69	7.29
6.	Syringaldehyde	19.76	27.97
7.	Glutaric acid	20.27	6.40
8.	Acetosyringone	20.72	10.60

Table A1. Details composition of degradation of wood products presence detected by GC-

MS

Figure A1. Full scan of Ce 3d core level X PS spectra of CeO₂ nanostructure catalyst.

