Supplementary Information

Lewis acid catalyzed [3+2] annulation of ketenimines with donor-acceptor cyclopropanes: an approach to 2-alkylydenepyrrolidine derivatives

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Figure S1 Dimer of 3a due to the formation of two CH/pi hydrogen bonds



Figure S2 Showing two neighboring dimers packing in the crystal of 3a



Figure S3 Torsion angle between the pyrrolidine and cyclohexane rings in compound 8b



Figure S4 Formation of infinite chains by hydrogen bonds along the a-axis in the crystal of 8b



Figure S5 Formation of infinite chains by hydrogen bonds along the c-axis in the crystal of 8b



Figure S6 Formation of infinite chains along the a-axis (red) and the c-axis (orange) and the interconnection of the chain (Green) froming layers in the ac-plane of the cristal of **8b** (some molecules have been omitted for clarity)

¹H NMR of **3a** (300 MHz)



CO₂CH₃ CO₂CH₃ Ph Ph CH₃



CO₂CH₃

¹H NMR of **3b** (300 MHz)







ppm



OCH3

CO₂CH₃ CO₂CH₃

Ρ'n

































0

4

. 5

4.0

ω

. თ

3.0

N 5

N 0

-G

-

0

0 S

mdd

1.0284

2.9552 2.9667

2.9284

0.9873



-CO₂CH₃

CO₂CH₃



¹³C NMR of **3h** (100 MHz)





CO2CH3 -CO₂CH₃ Ph







¹H NMR of **3k** (400 MHz)









¹³C NMR of **3**I (100 MHz)















¹³C NMR of **3n** (100 MHz)

















CO₂CH₃ CO₂CH₃ Ph Ph CH₃















CH3





¹H NMR of **10a** (400 MHz)





7.200 7.088 7.083 7.068 7.062 -7.047 -7.039 -7.035 -7.031 -7.018 -6.965 6.949 6.944 -6.854 -6.833 6.667 r4.687 -4.662 -4.658 4.633 -4.496 -4.485 -4.471 -4.460 -4.317 -4.289 -3.863 -3.669 -3.519 -3.508 -3.491 3.480 3.462 -3.022

























