

Systematic Molecular Design of *p*-phenylene Lasing Properties

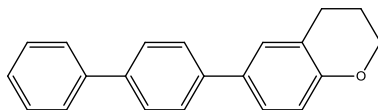
Tyler A. Merz, Paul G. Waddell and Jacqueline M. Cole

Supporting Information

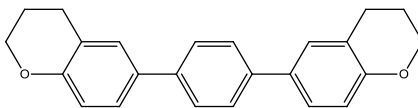
Table S1: The following is a list of the compounds which were used for the Hammett value calculations. Compounds from the literature are numbered with the initial of the first author and the number assigned in the original journal article.

Compound number	Chemical Structure
Se4 ¹	
Se5	
Se6	
Se7	
Sc1 ⁴	
Sc3	
Sc4	
Sc6	
Sc7	
Sc8	
Sc11	

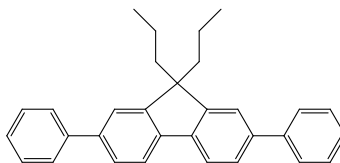
Sc12



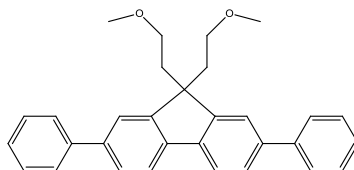
Sc13



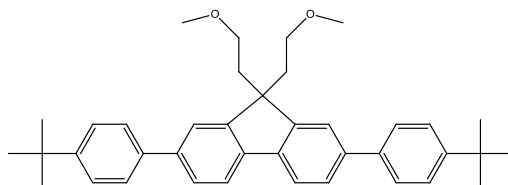
F1⁵



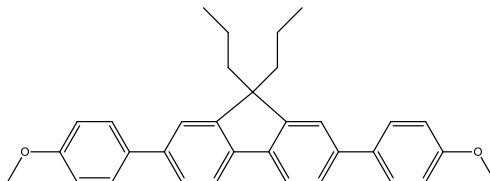
F2



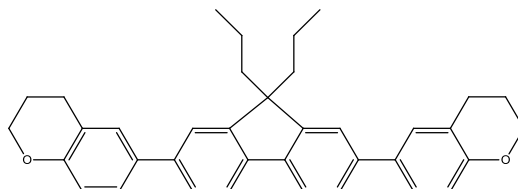
F3



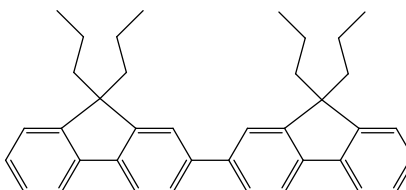
F4



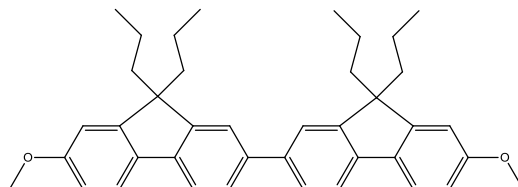
F5



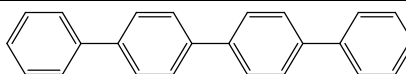
F9



F10



F12



F13

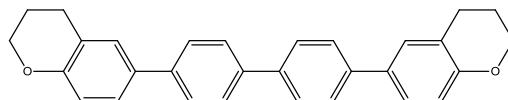
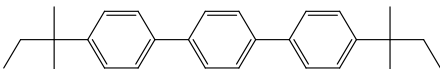
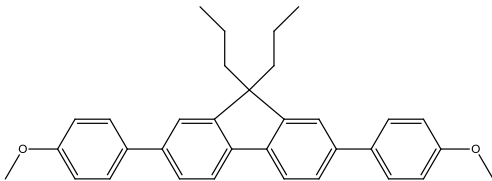
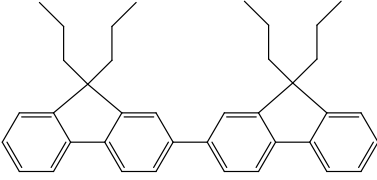
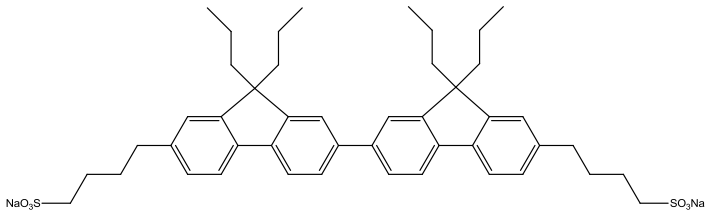
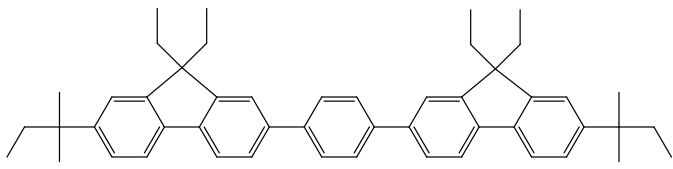
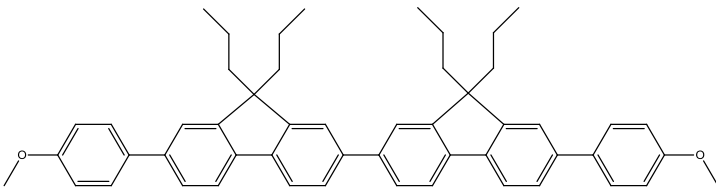
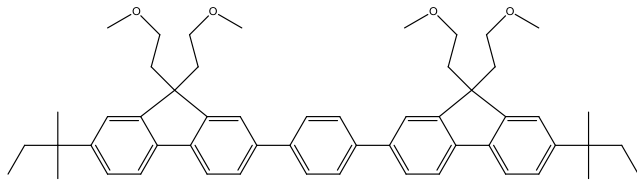
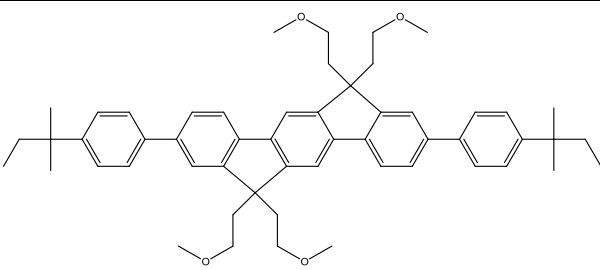
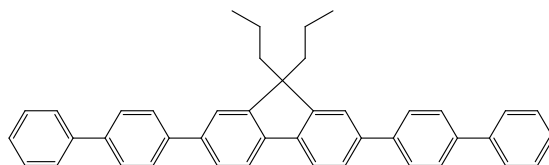


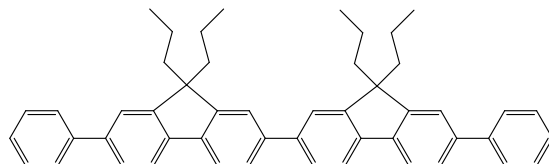
Table S2: The following is a list of the compounds which were used for comparison of maximal lasing values. Compounds from the literature are numbered with the initial of the first author and the number assigned in the original journal article.

Compound number	Chemical Structure
Exalite 351 ⁷	
Exalite 384	
Exalite 389	
Exalite 400E	
Exalite 404	
Exalite 416	
Se1 ¹	
Se2	

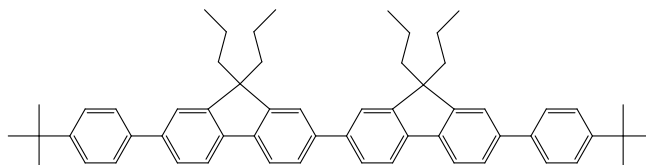
Se3



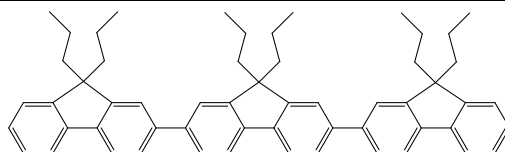
Se4



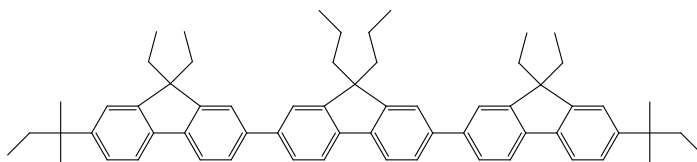
Se5



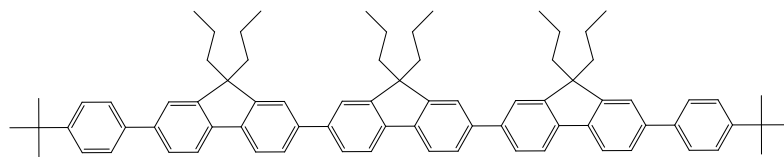
Se6



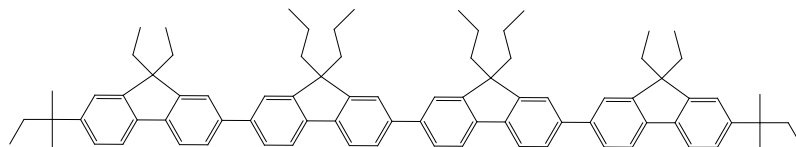
Se7



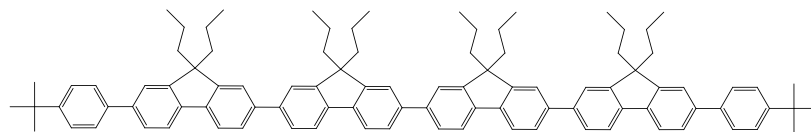
Se8



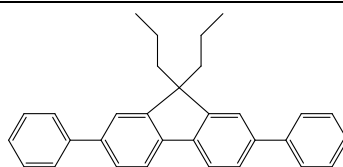
Se9



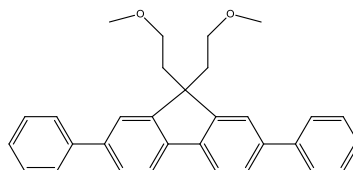
Se10



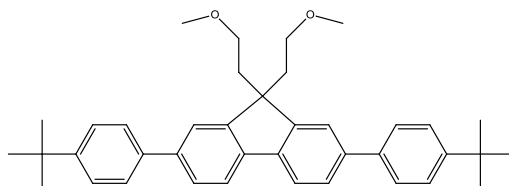
F1⁵



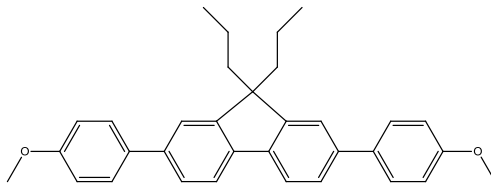
F2



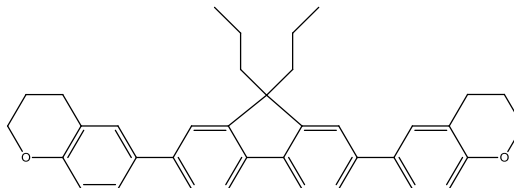
F3



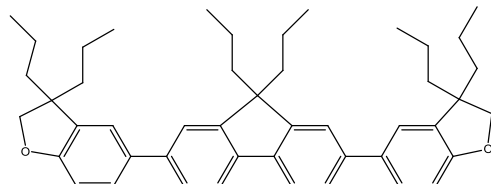
F4



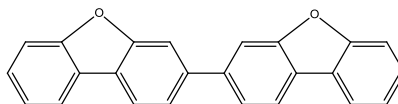
F5



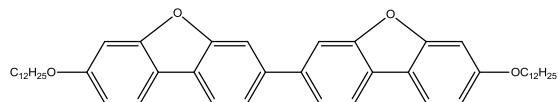
F6



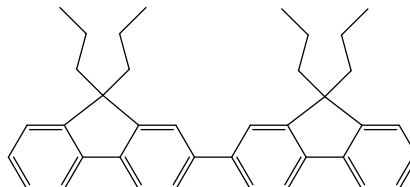
F7



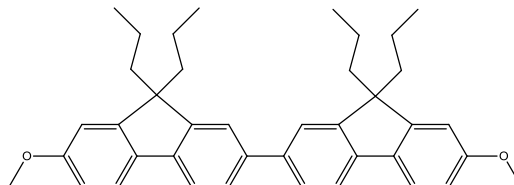
F8



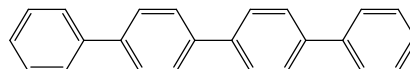
F9



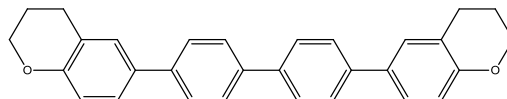
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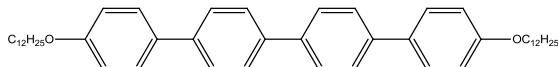
F12



F13



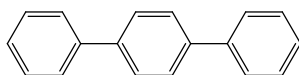
F14



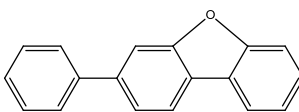
Sc1-13

Schneider, D. J.; Landis, D. A.; Fleitz, P. A.; Seliskar, C. J.; Kauffman, J. M.; Steppel, R. N. *Laser Chem.* 1991, 11, 49–62.

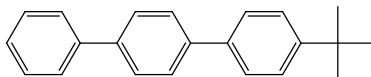
Sc1⁴



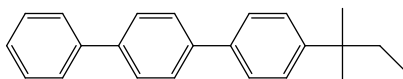
Sc2



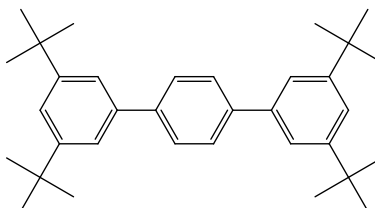
Sc3



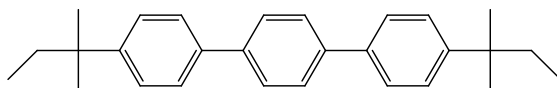
Sc4



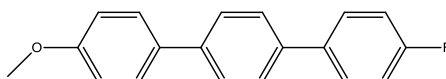
Sc5



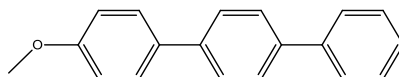
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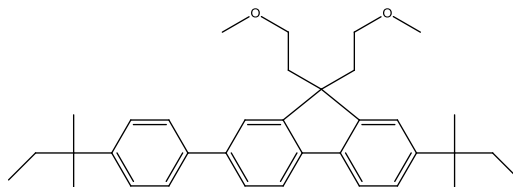
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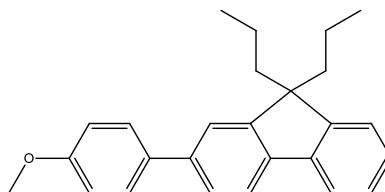
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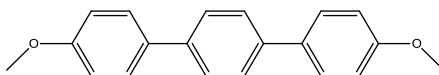
Sc9



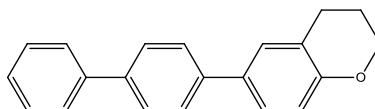
Sc10



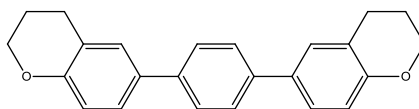
Sc11



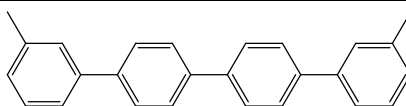
Sc12



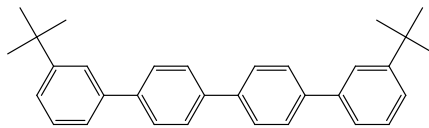
Sc13



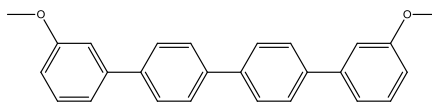
R1²



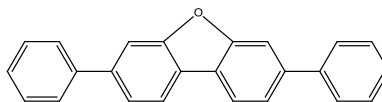
R2



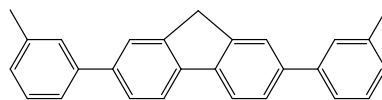
R3



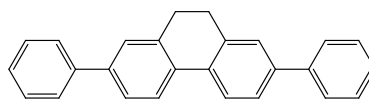
R10³



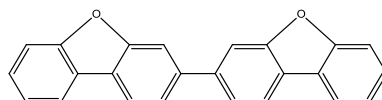
R11



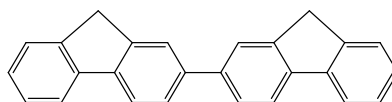
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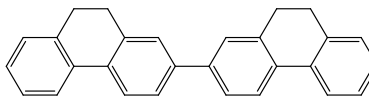
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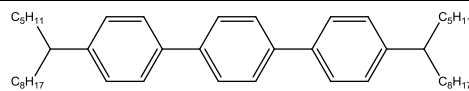
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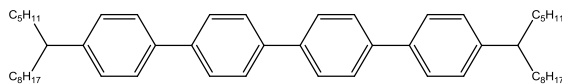
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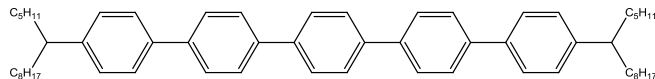
B2⁶



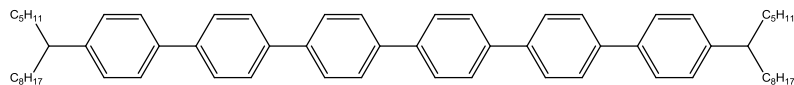
B3



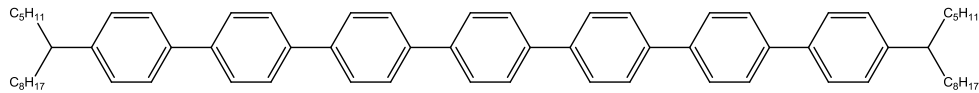
B4



B5



B6



B7

