

Gute Chemie

abcr

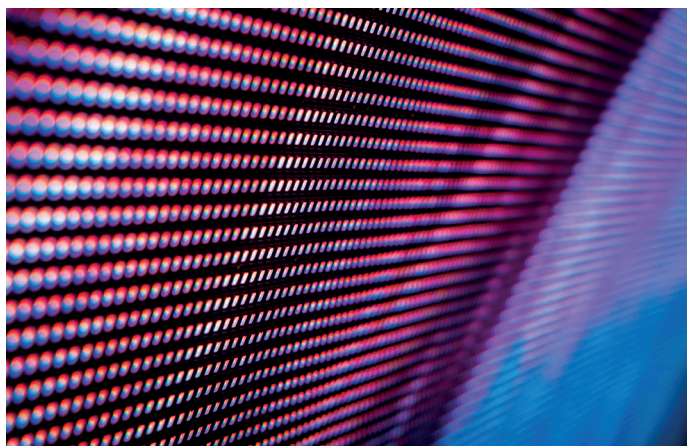


R&D of Building Blocks for OLED

Designed and Manufactured by abcr service lab

Within this flyer you can find a selection of fluorine-containing small molecules which could be promising building blocks for the construction of new OLED materials.

Our service lab specialists have great expertise in the development of advanced fluorine-containing building blocks and fluorine modification of the existing ones. We design and synthesize portfolios of novel, unique and differentiated fluorine-containing aromatics and heterocycles for the organic electronics industry.

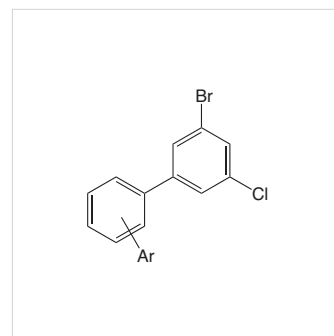
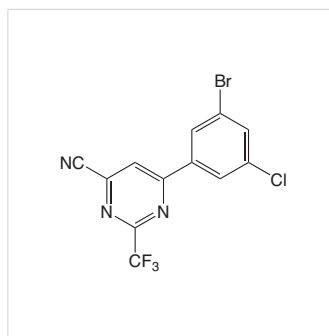
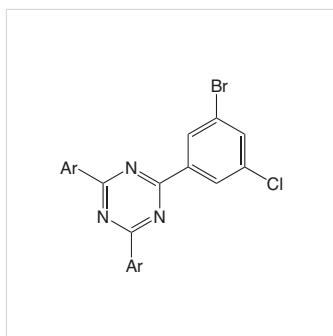
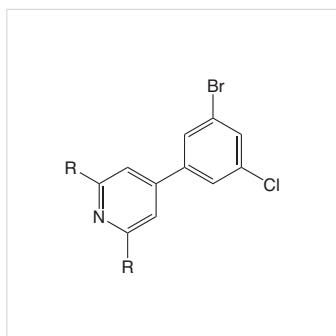


Conjugated organic small molecules and organic polymers are used as active semiconductor materials in electronic and optoelectronic devices such as Organic Light Emitting Diodes (OLEDs).

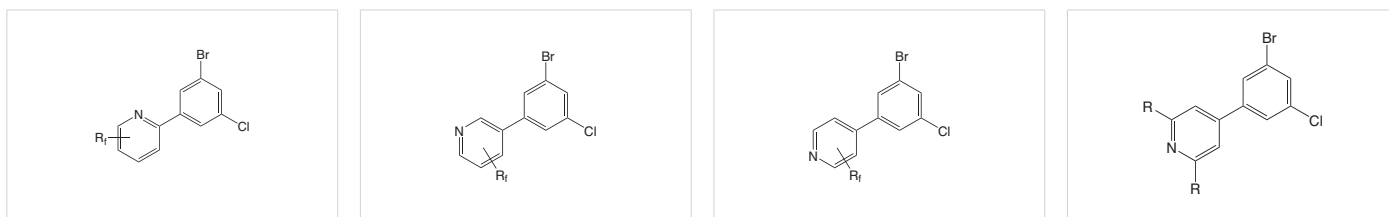
The properties of such semiconductors can be properly engineered and finely tuned by the design of the conjugated molecular structure and the selective introduction of various functional groups.

It has been generally demonstrated that selective functionalization of the conjugated core with fluorine atoms and fluorinated substituents is an effective structural modification not only for tuning optoelectronic properties, but also that it affects the solid-state organization and improves stability.

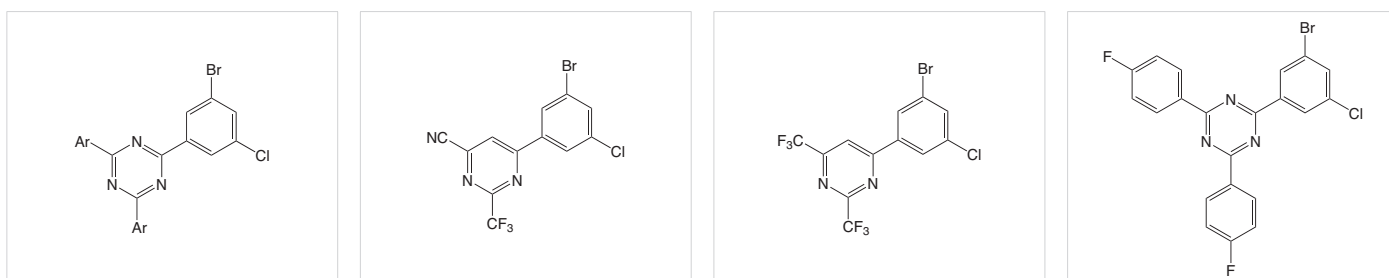
Varios building blocks of the biphenyl/biaryl structures
by abcr service lab – made in Germany



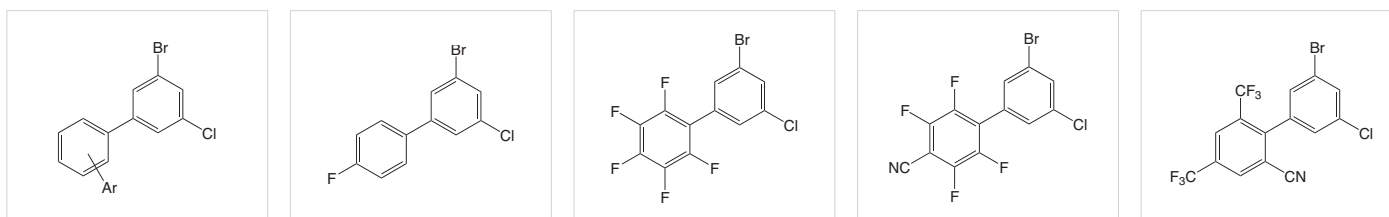
Bearing regioisomeric pyridines, including substituted ones



Bearing substituted triazines or other heteroarenes (on demand)



Bearing additional aromatics or fluoro-substituted aromatics



abcr service lab: consultation, synthesis and optimization

We offer customized individual syntheses for our customers. We know – there is no such thing as ready-made innovative chemical products off the rack.

Our service for special chemicals fulfils complex tasks:

- We comprehensively advise customers in regard to initial syntheses.
- De-novo synthesis of exceptionally complex molecules and compounds for various industrial areas (such as pharma, material sciences, life science)
- We optimize syntheses and advise our customers in order to discover efficient or cost-effective synthesis routes and thereby increase yields and purities.

abcr's internal state-of-the-art chemistry lab is available to our experts for any form of synthesis. Chemists with many years of experience and a scientific background from prior collaboration with worldwide renowned research institutes work here.

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