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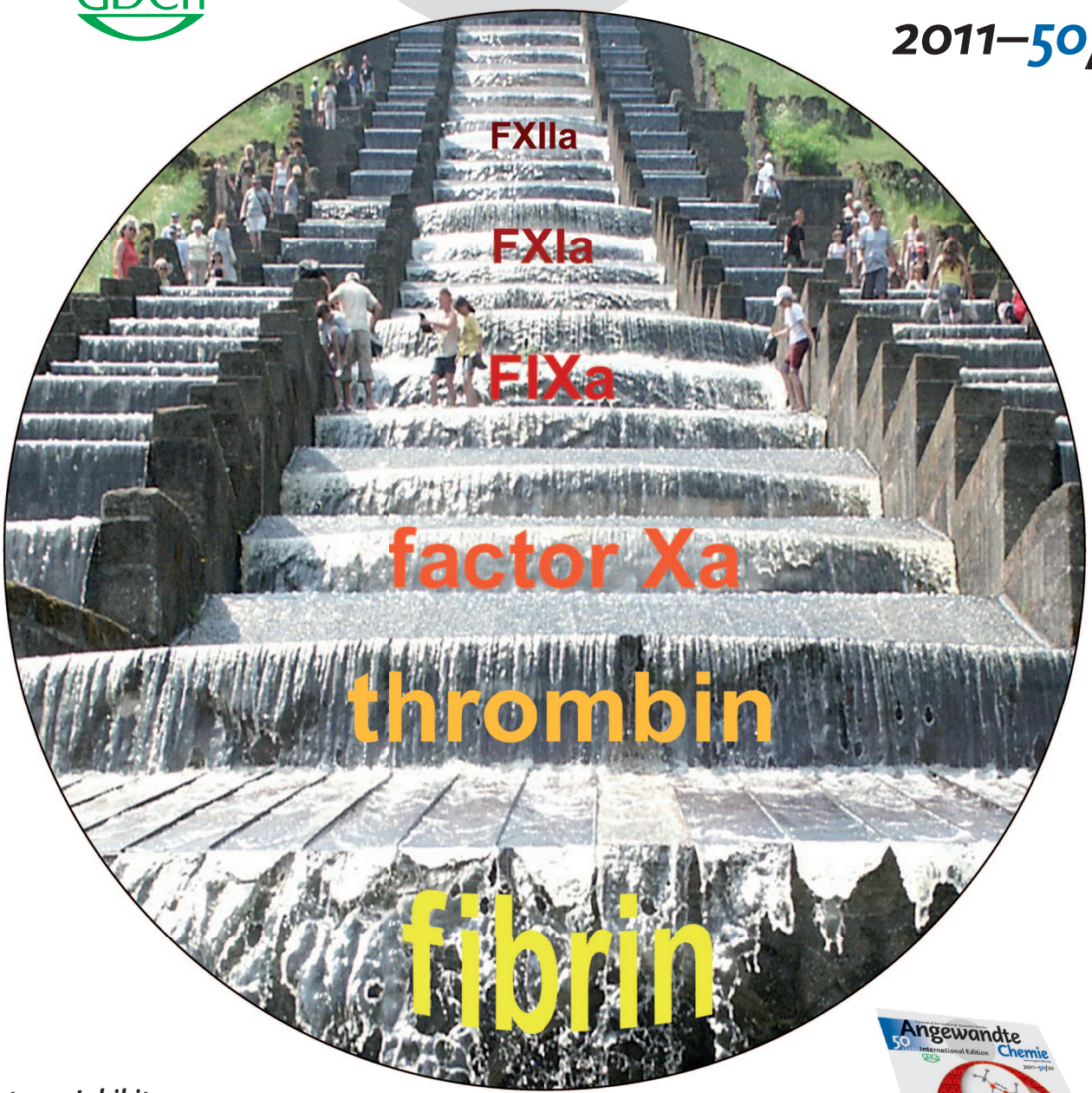

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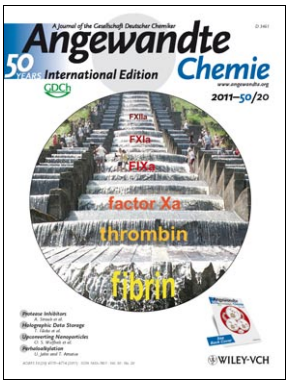
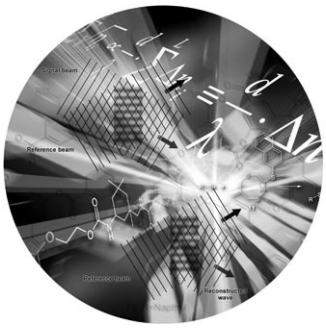
Cover Picture

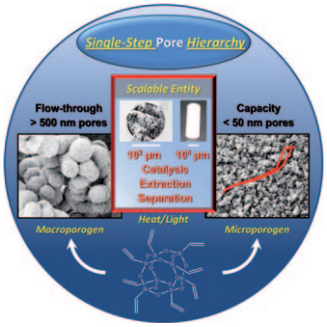


Alexander Straub,* Susanne Roehrig, and Alexander Hillisch

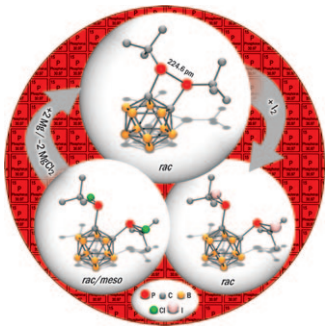
The large water cascade (ital. *cascare* = to fall) in the baroque landscaped park Wilhelmshöhe in Kassel (Germany) is reminiscent of the blood-clotting cascade in which the different clotting factors initiate the formation of fibrin thrombi in an amplification cascade. This protective mechanism against blood loss is, however, also the cause of thrombotic diseases. In order to inhibit it an extensive search for low-molecular-weight factor Xa and thrombin inhibitors has been carried out. More on this in the Review by A. Straub et al. on page 4574 ff.



Holographic Data Storage
The application of holographic principles has resulted in an increase in both the data storage capacity and transfer rate of optical storage media. T. Fäcke et al. describe in their Review on page 4552 ff. the material requirements and the concepts for this cutting-edge data storage technology.



Polyhedral Silsesquioxanes
In their Communication on page 4592 ff., I. Nischang and co-workers describe the use of nanometer-sized, polyhedral hybrid organic/inorganic precursors for producing porous entities in a single step. The surface properties of the resulting structures can be modified by a thiol–ene addition reaction.



Phosphorous Heterocycles
In their Communication on page 4701 ff., E. Hey-Hawkins and co-workers describe a carborane-stabilized 1,2-diphosphetane. The heterocyclic P_2C_2 ring undergoes a ring-opening reaction with elemental iodine.