

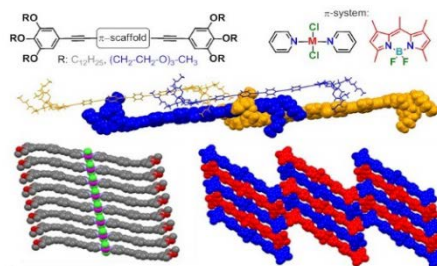
**Montag, 04.07.2016 um 15:15 Uhr**  
**Ort: Seminarraum 87, Wilhelm-Klemm-Straße 10**

## Ordered Metal-containing Self-Assembled Structures based on Weak Non-Covalent Interactions: Potential (Semi) Conductive Materials



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Understanding the non-covalent forces involved in the formation of self-assembled structures is a prerequisite to construct functional materials with applications in various research fields.<sup>1</sup> To achieve these functionalities, a high degree of order within the supramolecular assembly is highly desirable.<sup>2</sup> The introduction of cooperative hydrogen bonding interactions and combinations with other secondary forces<sup>2</sup> represents a rational means for this purpose, whereas the role of metal fragments has been explored to a much lesser extent.<sup>3</sup> Our group has investigated the self-assembly of various bispyridyl dichloride Pd(II)<sup>4</sup> and Pt(II) complexes<sup>5</sup> featuring an extended aromatic surface equipped with polar or nonpolar side chains. These studies reveal the crucial role of both side chains and metal fragments on the molecular arrangement and the final properties of the self-assembled systems, thus providing access to novel materials with potential application as (semi)conductive materials or drug nanocarriers.



### References

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