第255回 OPERA研究交流セミナー
第246回 ISIT有機光エレクトロニクス研究特別室セミナー
第313回 未来化学創造センターセミナー

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「Novel organometallic synthetic methods for luminescent compounds containing cyclometalated pyridylidene ligands」

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NHCs have found a plethora of applications in the last two decades. This contrasts with the underexplored pyridylidene category. Pyridylidenes exhibit a higher σ-donor and π-acceptor character than imidazolylidenes. Pyridylidenes remain scarcely investigated certainly due the absence of general methods for accessing pyridylidene-based metal complexes. In this context, we have developped several methods for the synthesis of organometallic pyridylidene complexes. Cyclometalation involving C-H bond activation of pyridinium salts leads to a wide range of pyridylidene complexes with transition metals such as Ru(II), Os(II), Rh(III), Ir(III) and Pt(II). Some of the complexes obtained exhibit unusual photoluminescence phenomena, perhaps due to the highly polar nature of the pyridylidene ligands used.

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