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Supporting Information

Efficient one-pot green synthesis of tetrakis(acetonitrile)copper(I) complex in aqueous media.

Ilya S. Kritchenkov, ^a Julia R. Shakirova ^a and Sergey P. Tunik *^a

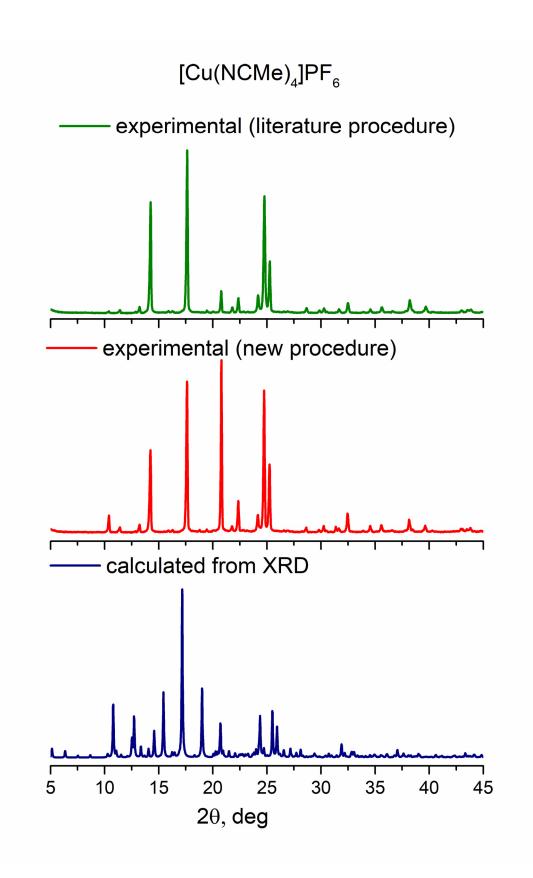


Figure S1. Powder X-ray diffraction patterns of [Cu(CH₃CN)₄][PF₆]: experimental for complex, synthesized according to literature procedure (green), new procedure (red) and calculated from the single-crystal data CCDC 815342 (blue).

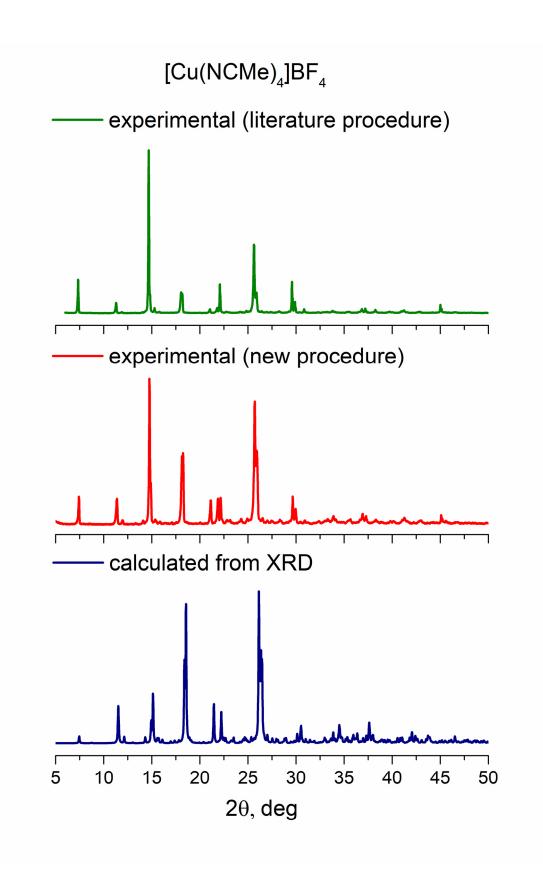


Figure S2. Powder X-ray diffraction patterns of $[Cu(CH_3CN)_4][BF_4]$: experimental for complex, synthesized according to literature procedure (green), new procedure (red) and calculated from the single-crystal data CCDC 929493 (blue).

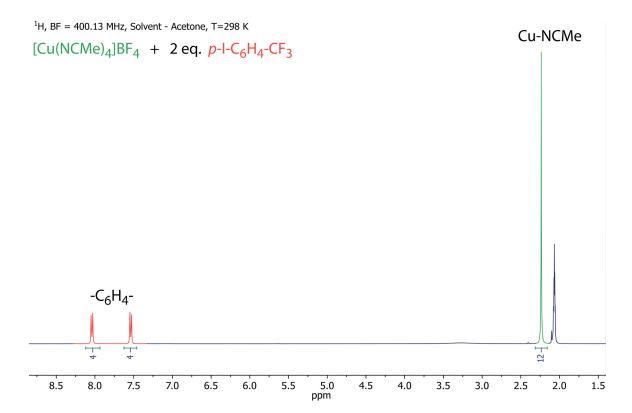


Figure S3. 1H NMR spectrum of [Cu(CH₃CN)₄][BF₄] in presence of 2 equivalents of 4-iodobenzotrifluoride

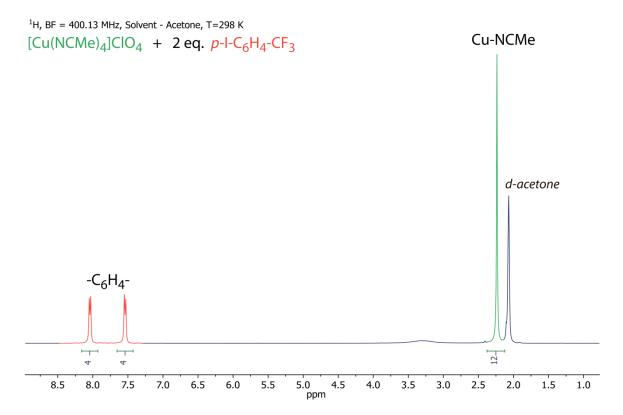


Figure S4. 1H NMR spectrum of [Cu(CH₃CN)₄][ClO₄] in presence of 2 equivalents of 4-iodobenzotrifluoride

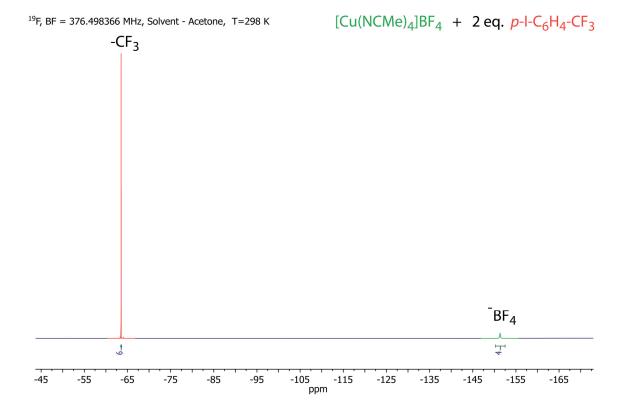


Figure S5. 19 F NMR spectrum of [Cu(CH $_3$ CN) $_4$][BF $_4$] in presence of 2 equivalents of 4-iodobenzotrifluoride.