

Materials List for:

Preparation of a Corannulene-functionalized Hexahelicene by Copper(I)-catalyzed Alkyne-azide Cycloaddition of Nonplanar Polyaromatic Units

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Materials

Name	Company	Catalog Number	Comments
2,15-Dimethylhexahelicene	N/A	N/A	Prepared according to reference 5b,c in the main text.
Corannulene	N/A	N/A	Prepared according to reference 5a in the main text.
N-Bromosuccinimide (NBS)	Sigma Aldrich	B8.125-5	ReagentPlus®, 99%. Recrystallized from hot water.
Benzoyl peroxide (BPO)	Sigma Aldrich	B-2030	~70% (titration). 30% water as stabilizer.
Sodium azide	Sigma Aldrich	S2002	ReagentPlus®, ≥99.5%.
Gold(III) chloride Hydrate	Sigma Aldrich	50778	puriss. p.a., ACS reagent, ≥49% Au basis.
Ethynyltrimethylsilane	Sigma Aldrich	218170	98%
[PdCl ₂ (dppf)]	N/A	N/A	Prepared according to reference 6 in the main text.
CuI	N/A	N/A	Prepared according to reference 7 in the main text.
KF	Sigma Aldrich	307599	99%, spray-dried.
(+)-Sodium L-ascorbate	Fluka	11140	BioXtra, ≥99.0% (NT).
Copper(II) Sulphate 5-hydrate	Panreac	131270	For analysis.
Carbon tetrachloride (CCl ₄)	Fluka	87030	For IR spectroscopy, ≥99.9%.
Dichloromethane (DCM)	Fisher Scientific	D/1852/25	Analytical reagent grade. Distilled prior to use.
Hexane	Fisher Scientific	H/0355/25	Analytical reagent grade. Distilled prior to use.
Ethyl acetate	Scharlau	AC0145025S	Reagent grade. Distilled prior to use.
Tetrahydrofuran (THF)	Fisher Scientific	T/0701/25	Analytical reagent grade. Distilled prior to use.
1,2-Dichloroethane (DCE)	Sigma Aldrich	D6,156-3	ReagentPlus®, 99%.
Methanol (MeOH)	VWR	20847.36	AnalaR NORMAPUR.
Triethyl amine (NEt ₃)	Sigma Aldrich	T0886	≥99%
Silica gel	Acros	360050010	Particle size 40-60 mm.
Sand - low iron	Fisher Scientific	S/0360/63	General purpose grade.
TLC Silica gel 60 F ₂₅₄	Merck	1.05554.0001	
Monowave 300 (Microwave reactor)	Anton Para		
Sonicator	Grupo Selecta	3000513	6 Litres.