

中性-イオン性転移を示すCT錯体結晶

	TTF	DMTTF	TMB	CMPD
DCLQ	$P_c > 5$ GPa			
CA	$T_c = 80$ K $P_c = 1.1$ GPa	$T_c = 65$ K $P_c = 1.2$ GPa		
TCLQ	$P_c = 1.1$ GPa			
23BRQ	2:1--- $P_c = 2.0$ GPa			
25BRQ	2:1--- $P_c = 2.0$ GPa			
TBRQ	2:1--- $P_c = 2.0$ GPa			
BA	2:1--- $P_c = 2.7$ GPa			
IA	1:1--- $P_c = 1.9$ GPa 2:1--- $P_c = 3.1$ GPa			
TCNQ			$T_c = 205$ K	
DMDCNQi	$P_c = 0.9$ GPa			$T_c = 200$ K

●ドナー

TTF: tetrathiafulvalene DMTTF: 2,6-dimethyl-TTF
 TMB: tetramethylbenzidine
 CMPD: 2-chloro-5-methyl-*p*-phenylenediamine

●アクセプター

CA: chloranil TCLQ: 2-bromo-3,5,6-trichloro-*p*-benzoquinone
 23BRQ: 2,3-dibromo-5,6-dichloro-*p*-benzoquinone
 25BRQ: 2,5-dibromo-3,6-dichloro-*p*-benzoquinone
 TBRQ: 2,3,5-tribromo-6-chloro-*p*-benzoquinone
 BA: bromanil IA: iodanil
 TCNQ: tetracyanoquinodimethane
 DMDCNQi: 2,5-dimethyl-dicyanoquinonediimine

●転移点における不連続性

No ionicity jump: DMTTF-CA, CMPD-DMDCNQi
 Small ionicity jump: TTF-IA (0.1)
 Large ionicity jump: TTF-DMDCNQi (0.8)

- 1 . T T F - C A
 - 1 - 1 . 光学的性質 (赤外・ラマンスペクトル , 電子スペクトル , 他)
2), 4), 7), 8), 9), 10), 13), 16), 18), 19), 20), 30), 31), 34), 35), 41),
42), 45), 47), 62), 66), 68), 69)
 - 1 - 2 . 電氣的性質 (電気伝導度 , 他)
26), 28), 32), 39), 40), 78)
 - 1 - 3 . 磁氣的性質 (NMR , ESR , 他)
33), 43), 48), 51), 52), 65)
 - 1 - 4 . 熱的性質 (熱分析 , 他)
6), 11)
 - 1 - 5 . 結晶構造 (X線回折 , 中性子線回折 , 他)
3), 12), 15), 54), 60), 72)

- 2 . Dimethyl-TTF-CA
56), 64)

- 3 . その他のハロパラベンゾキノン錯体
50), 57)

- 4 . TMB-TCNQ
46), 49)

- 5 . DCNQI 錯体
58), 66), 74)

- 6 . 2 : 1 C T 錯体
53), 76), 77)

- 7 . 中性 - イオン性転移理論・計算
1), 5), 14), 17), 21), 22), 23), 24), 25), 29), 36), 38), 44), 55), 59),
70), 75)

- 8 . 総説・解説
27), 37), 61), 67),

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