

Luminescent cyanometallates based on phenylpyridine-Ir(III) units: solvatochromism and metallochromism in solution, and formation of cyanide-bridged networks with lanthanide cations

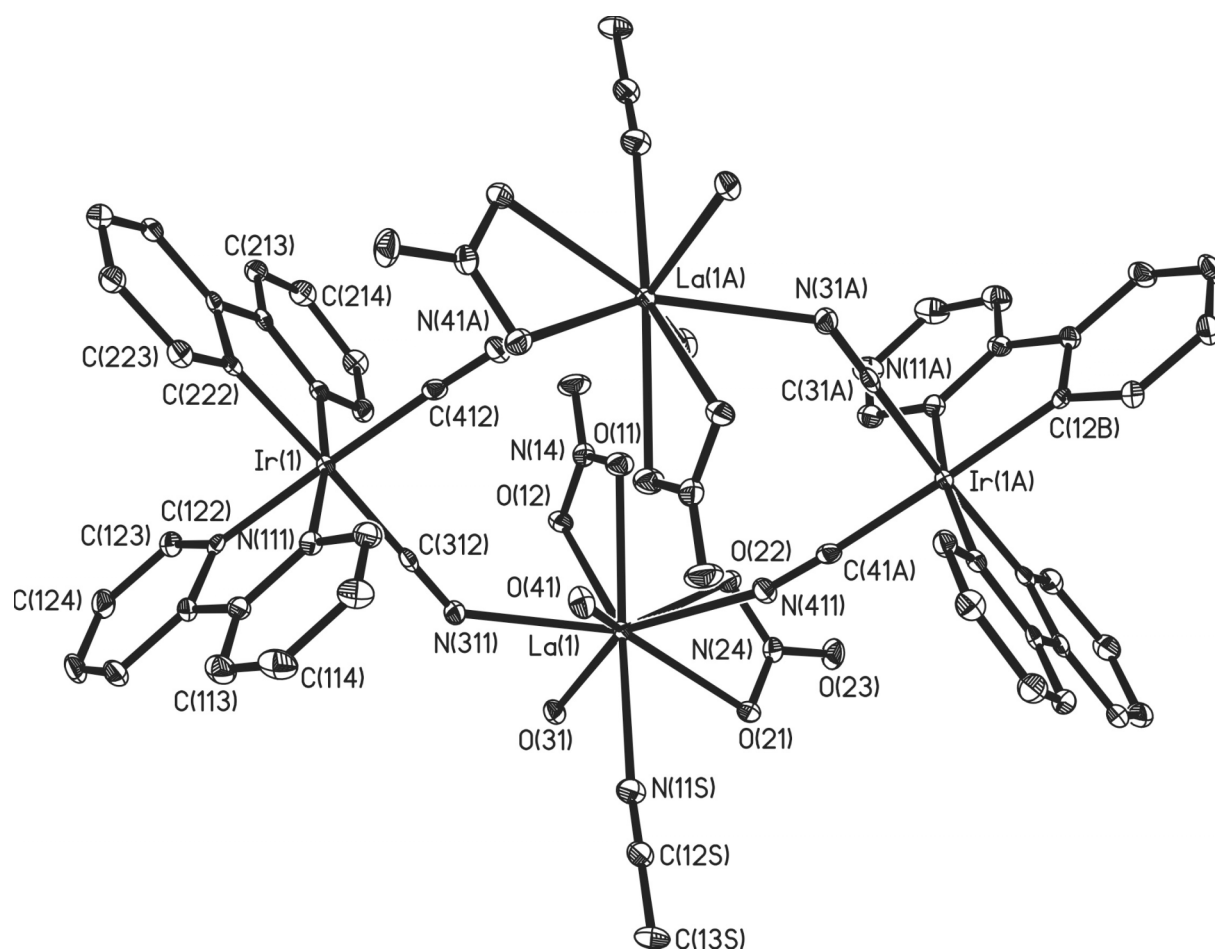
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Supporting information: crystal structures of

$[\{\text{La}(\text{NO}_3)_2(\text{H}_2\text{O})_2(\text{MeCN})\}\{\text{Ir}(\text{ppy})_2(\text{CN})_2\}]\cdot 2\text{MeCN}$ and

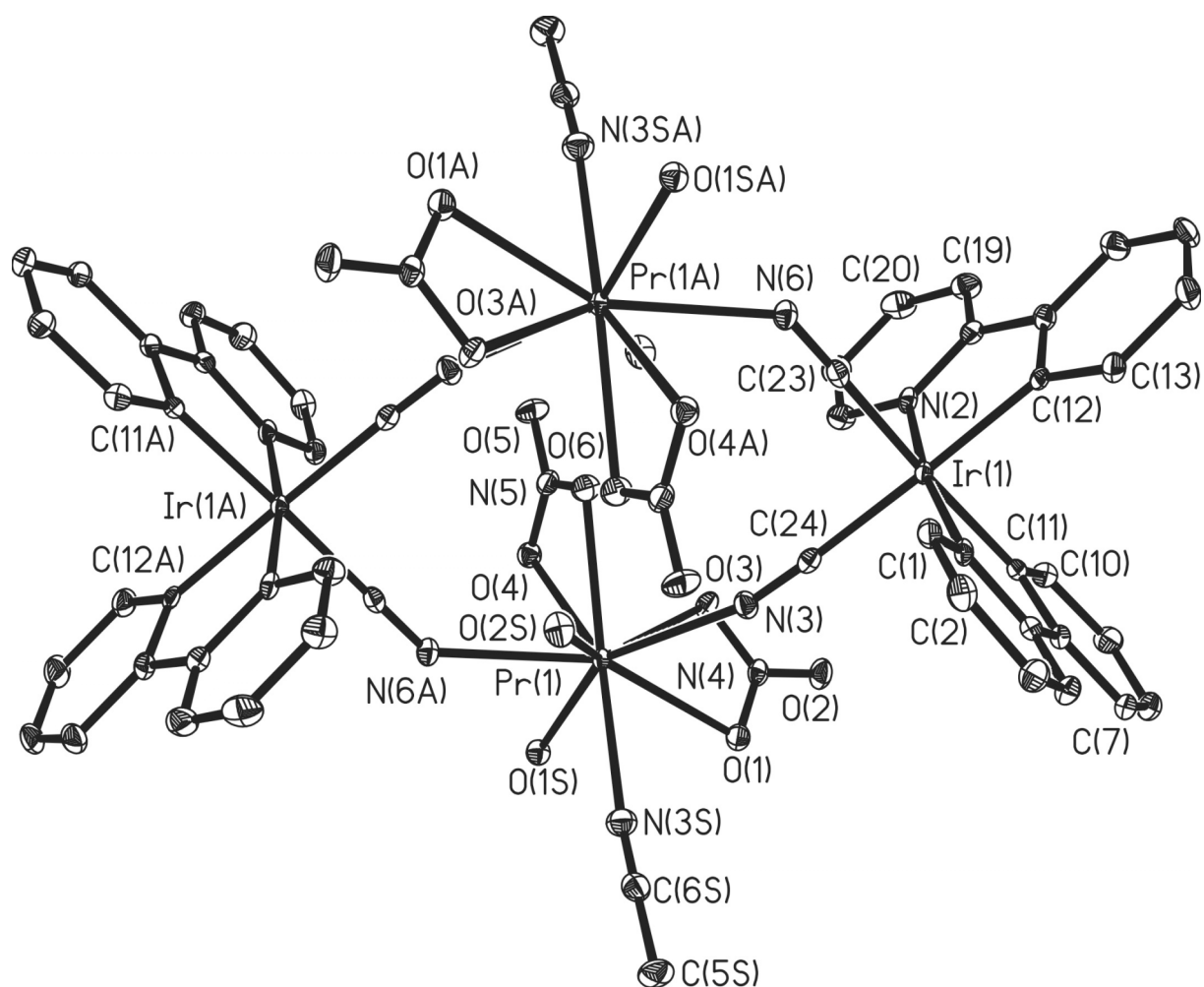
$[\{\text{Pr}(\text{NO}_3)_2(\text{H}_2\text{O})_2(\text{MeCN})\}\{\text{Ir}(\text{ppy})_2(\text{CN})_2\}]\cdot 2\text{MeCN}$

[{La(NO₃)₂(H₂O)₂(MeCN)}{Ir(ppy)₂(CN)₂}]•2MeCN



Bond distances (Å):

Ir(1)-C(312)	2.041(3)
Ir(1)-C(412)	2.049(3)
Ir(1)-N(211)	2.054(2)
Ir(1)-C(122)	2.057(3)
Ir(1)-N(111)	2.059(2)
Ir(1)-C(222)	2.060(3)
La(1)-O(31)	2.514(2)
La(1)-O(11)	2.550(2)
La(1)-O(41)	2.567(2)
La(1)-O(22)	2.578(2)
La(1)-N(311)	2.590(2)
La(1)-N(411)	2.592(3)
La(1)-O(21)	2.607(2)
La(1)-O(12)	2.633(2)
La(1)-N(11S)	2.689(3)



Bond distances (Å):

Ir(1)–C(23)	2.037(5)
Ir(1)–N(2)	2.050(4)
Ir(1)–C(12)	2.051(4)
Ir(1)–C(24)	2.053(4)
Ir(1)–N(1)	2.054(4)
Ir(1)–C(11)	2.061(4)

Pr(1)–O(1S)	2.468(3)
Pr(1)–O(6)	2.508(3)
Pr(1)–O(2S)	2.535(3)
Pr(1)–O(3)	2.541(3)
Pr(1)–N(3)	2.545(4)
Pr(1)–N(6)	2.547(4)
Pr(1)–O(1)	2.567(3)
Pr(1)–O(4)	2.604(3)
Pr(1)–N(3S)	2.638(4)