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| Title: | 'Aggregation induced emission' active iridium(III) complexes with applications in mitochondrial staining |
| Authors: | Kaur, Gurpreet (/jspui/browse?type=author&value=Kaur%2C+Gurpreet) Choudhury, A.R. (/jspui/browse?type=author&value=Choudhury%2C+A.R.) |
| Keywords: | Mitochondrial Aggregation chemical calculations |
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| Publisher: | Royal Society of Chemistry |
| Citation: | RSC Advances, 7(10), pp. 29860-29870 |
| Abstract: | Two new bis-cyclometalated iridium(III) complexes, [Ir(F2ppy)2(L)] and [Ir(ppy)2(L)], where F2ppy = 2-(2',4'-difluoro)phenylpyridine, ppy = 2-phenylpyridine and L = 1,2-((pyridin-2-ylimino)methyl)phenol, have been designed and synthesized by a convenient route. We have univocally characterized their structure by ¹ H NMR, ¹⁹ F NMR, HRMS and SXRD. Both complexes exhibit strong 'Aggregation Induced Emission (AIE)' activity, which has been investigated using spectroscopy measurements, ab initio quantum chemical calculations and by analysing their crystal packing. One of the complexes has been shown to have a potential application as a non-toxic bio-imaging probe for mitochondrial staining. |
| Description: | Only IISERM authors are available in the record. |
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