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Kumar, Sandeep (/jspui/browse?type=author&value=Kumar%2C+Sandeep) Sharma, H.K. (/jspui/browse?type=author&value=Sharma%2C+H.K.)  Keywords: Dysprosium Flexible Receptor UV-visible Fluorescence  Issue Date: 2020  Publisher: Elsevier  Citation: Polyhedron, 183  Abstract: Herein we report the development of a Dy(III) ion specific flexible molecular receptor incorwith furan group. The capture experiment of several metal ions covering mono, di and trivametal ions with synthesized three molecules has been performed. Only the furan incorpora flexible molecule BMHP selectively recognizes Dy(III) ions and this is supported by the experformance of the receptor UV-visible and fluorescence studies. The receptor performed detect Dy(III) ions at the lowest detection limit of 6.4 × 10-8 M with 1:2 (receptor: metal) bis stoichiometry. The mass spectrometry and cyclic voltammetric studies give relevant informabout receptor binding with Dy(III) ions.  URI: https://www.sciencedirect.com/science/article/pii/S0277538720301947?via%3Dihub (https://www.sciencedirect.com/science/article/pii/S0277538720301947?via%3Dihub) http://hdl.handle.net/123456789/3351 (http://hdl.handle.net/123456789/3351)	Please use	this identifier to cite or link to this item: http://hdl.handle.net/123456789/3351
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