



Library Indian Institute of Science Education and Research Mohali



DSpace@IISERMohali (/jspui/)
/ Publications of IISER Mohali (/jspui/handle/123456789/4)
/ Research Articles (/jspui/handle/123456789/9)

Please use this identifier to cite or link to this item: <http://hdl.handle.net/123456789/2839>

Title:	Mechanochemical Synthesis of Free-Standing Platinum Nanosheets and Their Electrocatalytic Properties
Authors:	Rana, M. (/jspui/browse?type=author&value=Rana%2C+M.)
Keywords:	electrocatalysis galvanic displacements mechanochemical synthesis metal nanosheets
Issue Date:	2015
Publisher:	WILEY-VCH Verlag GmbH
Citation:	Advanced Materials, 27(30)
Abstract:	Robust, 26 nm thick free-standing platinum nanosheets, an extremely rare morphology for metal nanostructures, are obtained by employing fluid induced shearing force of the order of 1.8 N and differential shear-stress of 0.5 kPa across the diameter of a Te template nanorod undergoing galvanic displacement by Pt ⁴⁺ . Corrugation leads to their large surface area and much improved electrocatalytic properties when compared with conventional Pt catalysts.
Description:	Only IISERM authors are available in the record.
URI:	https://onlinelibrary.wiley.com/doi/full/10.1002/adma.201501056 (https://onlinelibrary.wiley.com/doi/full/10.1002/adma.201501056) http://hdl.handle.net/123456789/2839 (http://hdl.handle.net/123456789/2839)
Appears in Collections:	Research Articles (/jspui/handle/123456789/9)

Files in This Item:

File	Description	Size	Format	
Need to add pdf.odt (/jspui/bitstream/123456789/2839/1/Need%20to%20add%20pdf.odt)		8.63 kB	OpenDocument Text	View/Open (/jspui/bitstream/123456789/2839/1/Need%20to%20add%20pdf.odt)

[Show full item record \(/jspui/handle/123456789/2839?mode=full\)](#)

[📊 \(/jspui/handle/123456789/2839/statistics\)](#)

Items in DSpace are protected by copyright, with all rights reserved, unless otherwise indicated.