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3.3.1: Research papers published by the teachers in the Journals notified on UGC care list during 2018.

1	**A recyclable/reusable hydrotalcite supported copper nano catalyst for 1,4-disubstituted-1,2,3-triazole synthesis via click chemistry approach**	**MitaliChetia, Praveen Singh Gehlot, Arvind Kumar, DigantaSarma**	**Chemistry**	**Tetrahedron Lett.**	**2018**	**0040-4039**	**https://www.sciencedirect.com/journal/tetrahedron-letters**	**https://www.sciencedirect.com/science/article/abs/pii/S0040403917315575#:~:text=Using%20hydrotalcite%20as%20solid%20support,be%20recycled%20and%20reused%20easily.**	**Web of Science**
2	Benedict's Solution/Vitamin C: An Alternative Catalytic Protocol for the synthesis of Regioselective-1,4-disubstituted-1H-1,2,3-triazoles at Room temperature	**Manashjyoti Konwar, Roktopol Hazarika, Abdul A Ali, Mitali Chetia, Nageshwar D Khupse, Prakash J Saikia,**	Chemistry	Applied Organometallic Chemistry	2018	0268-2605	https://onlinelibrary.wiley.com/journal/10990739	https://onlinelibrary.wiley.com/doi/10.1002/aoc.4425	**Web of Science**

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		DigantaSarma							
3	Estimating the global distribution of field size using crowdsourcing.	**Kuleswar Singha et al**	Geography	Global Change Biology (Published by: Wiley-Blackwell Publishing Ltd) (Impact Factor: 8.555)	2018	ISSN: 1365-2486 (online)	https://onlinelibrary.wiley.com/journal/13652486	https://onlinelibrary.wiley.com/doi/full/10.1111/gcb.14492	**Web of Science**
4	Estimation of inter-modal cross talk in a modal wavefront sensor	**Santanu Konwar and B R Boruah**	Physics	Optical Society of America Continuum (OSA Continuum)	2018	2578-7519	https://opg.optica.org/osac/home.cfm	https://opg.optica.org/osac/fulltext.cfm?uri=osac-1-1-78&id=398199	**Web of Science**

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Tetrahedron Letters
Volume 59, Issue 4, 24 January 2018, Pages 397-401

A recyclable/reusable hydrotalcite supported copper nano catalyst for 1,4-disubstituted-1,2,3-triazole synthesis via click chemistry approach

Mitali Chetia [a], Praveen Singh Gehlot [b], Arvind Kumar [b], Diganta Sarma [a]

https://doi.org/10.1016/j.tetlet.2017.12.051

Highlights

- Impregnation of Cu nanoparticles over hydrotalcite was very easy and simple.

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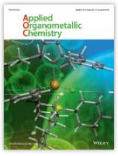
View in Scopus

Department of Chemistry, Dibrugarh University, Dibrugarh 786004, Assam, India

Applied Organometallic Chemistry



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COMMUNICATION

Benedict's solution/ vitamin C: An alternative catalytic protocol for the synthesis of regioselective-1,4-disubstituted-*1H*-1,2,3-triazoles at room temperature

Manashjyoti Konwar, Roktopol Hazarika, Abdul A. Ali, Mitali Chetia, Nageshwar D. Khupse, Prakash J. Saikia, Diganta Sarma

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Abstract

A novel and highly efficient method for the synthesis of 1,4-disubstituted-*1H*-1,2,3-triazoles by copper-catalyzed azide-alkyne cycloaddition has been developed. This economic and sustainable protocol uses a readily available Benedict's solution/Vitamin C catalyst system affording a wide range of 1,4-disubstituted-*1H*-1,2,3-triazoles under mild

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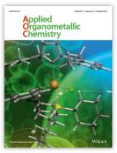

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Abstract

There is an increasing evidence that smallholder farms contribute substantially to food production globally, yet spatially explicit data on agricultural field sizes are currently lacking. Automated field size delineation using remote sensing or the estimation of average farm size at subnational level using census data are two approaches that have been used. However, both have limitations, for example, automatic field size delineation using remote sensing has not yet been implemented at a global scale while the spatial

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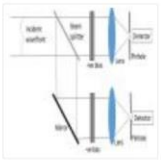

Estimation of inter-modal cross talk in a modal wavefront sensor

Santanu Konwar and Bosanta R. Boruah

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Abstract

A modal wavefront sensor provides a direct way of measuring the presence of a given type of aberration in the incident beam and is less computationally intensive compared to a zonal wavefront sensor. Such a sensor is particularly useful when the incident beam is aberrated with a limited number of lower order aberrations. The modal wavefront sensor has found applications in diverse areas and research is on to further improve the performance of the sensor. However, one major issue of the modal wavefront sensor is the inter-modal cross talk, that is the effect on the sensor output due to the presence of other aberration modes present in the beam. Although inter-modal cross talk is an inherent phenomenon in a modal wavefront sensor, so far there has not