Accepted Manuscript

Title: A critical analysis of publication trends from 2005-2015 in microwave assisted extraction of botanicals: how far we have come and the road ahead

Author: Vivekananda Mandal, Roshni Tandey

PII: S0165-9936(16)30069-3
DOI: http://dx.doi.org/doi: 10.1016/j.trac.2016.05.020
Reference: TRAC 14763

To appear in: *Trends in Analytical Chemistry*

Please cite this article as: Vivekananda Mandal, Roshni Tandey, A critical analysis of publication trends from 2005-2015 in microwave assisted extraction of botanicals: how far we have come and the road ahead, *Trends in Analytical Chemistry* (2016), http://dx.doi.org/doi: 10.1016/j.trac.2016.05.020.

A critical analysis of publication trends from 2005-2015 in microwave assisted extraction of botanicals: how far we have come and the road ahead

Vivekananda Mandal* and Roshni Tandey

Institute of Pharmacy, Guru Ghasidas Central University, Bilaspur 495009, India

Email: pharmafriend@rediffmail.com, Tel: +91 7587472660

Highlights

- Critical analysis of publication trends on microwave assisted extraction of plant bioactive(s) from 2005-2015 through search by Scopus database
- Comprehensive report on the extent of research done on MAE of botanicals and a critical performance report which can be handy tool for any beginner
- Core concept of strategizing and prioritizing research on MAE of botanicals made simplified

Abstract

This review has been written with the objective to strategically screen the published research papers (articles) through Scopus database related to microwave assisted extraction (MAE) of bioactive(s) from plant matrix and present a critical analysis report. Scopus is world's largest abstract and indexing database being used by researchers worldwide. This review discusses the publication trends of articles from 2005-2015 related to the above mentioned theme which shall give the readers a 10 year performance report to what extent MAE has been explored for extraction of botanicals compared to other areas of research in natural products. Based on the article screening some of the widely used domains related to MAE of botanicals and the top three