

Discovering seminal works with marker papers

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Abstract. Bibliometric information retrieval in databases can employ different strategies. Commonly, queries are performed by searching in title, abstract and/or author keywords (author vocabulary). More advanced queries employ database keywords to search in a controlled vocabulary. Queries based on search terms can be augmented with their citing papers if a research field cannot be curtailed by the search query alone. Here, we present another strategy to discover the most important papers of a research field. A marker paper is used to reveal the most important works for the relevant community. All papers co-cited with the marker paper are analyzed using Reference Publication Year Spectroscopy (RPYS). For demonstration of the marker paper approach, density functional theory (DFT) is used as a research field. Comparisons between a prior RPYS on a publication set compiled using a keyword-based search in a controlled vocabulary and a co-citation RPYS (RPYS-CO) show very similar results. Similarities and differences are discussed.

Keywords: Bibliometrics, RPYS, RPYS-CO, marker paper, seminal papers, historical roots, DFT

1 Introduction

Information retrieval in databases can be performed using different routes. Commonly, searches are performed via search terms (author vocabulary) in the full-text or in certain sections of a paper (e. g., title, abstract, and/or author keywords). Some databases also offer controlled vocabulary (i. e., keywords assigned by the database producer) to be searched. Searches in author vocabulary often require a strategy which is called "interactive query formulation" and was extensively discussed by Wacholder [1]. This strategy was applied for example in Haunschild, Bornmann and Marx [2] and Wang, Pan, Ke, Wang and Wei [3] to analyze the literature about climate change. A search in controlled vocabulary often needs less search terms and less complicated queries. For example, Haunschild, Barth and Marx [4] used a rather concise search query in the controlled vocabulary of C_AplusSM to analyze the literature about density functional theory (DFT), a widely used method in the field of computational chemistry.

Besides keyword searches, the citing papers of one specific key-paper (or a few key papers) can be used to retrieve fundamental literature, see e. g., Marx, Haunschild

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