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A BIBLIOMETRIC ANALYSIS OF THE ENERGY AND FUEL RESEARCH FIELD BASED ON SCIENCE MAPPING

Abstract:

This article investigates the conceptual evolution of qualitative research in the field of energy and fuel focus on oil and gas research from 1990 to 2018 identifying the main topics and practical applications which it has been used. The automatic approach was based on a co-word analysis and combines performance analysis and science mapping. The considerable number of studies published according to the journals in energy and fuel field focus on oil and gas research indexed in ISI Web of Science makes it possible to undertake a conceptual analysis of how the field has evolved. To observe the conceptual evolution of energy and fuel, we define three consecutive periods: 1990-2000, 2001-2008, 2009-2018. The results show that energy and fuel focus on oil and gas research are distributed in ten main theoretical areas: VEGETABLE-OILS, BIO-OIL, OIL, DIESEL-FUEL, PERFORMANCE, BIO-DIESEL, BIOMASS, CRUDE-OIL, RENEWABLE-ENERGY, SHALE. The research output could be used by the scientific community to identify thematic areas and to know the evolution of the energy and fuel field.

Keywords:

Science mapping analysis, literature review, energy and fuel, co-word analysis, oil and gas.

JEL Classification: Q40, Q49, C80