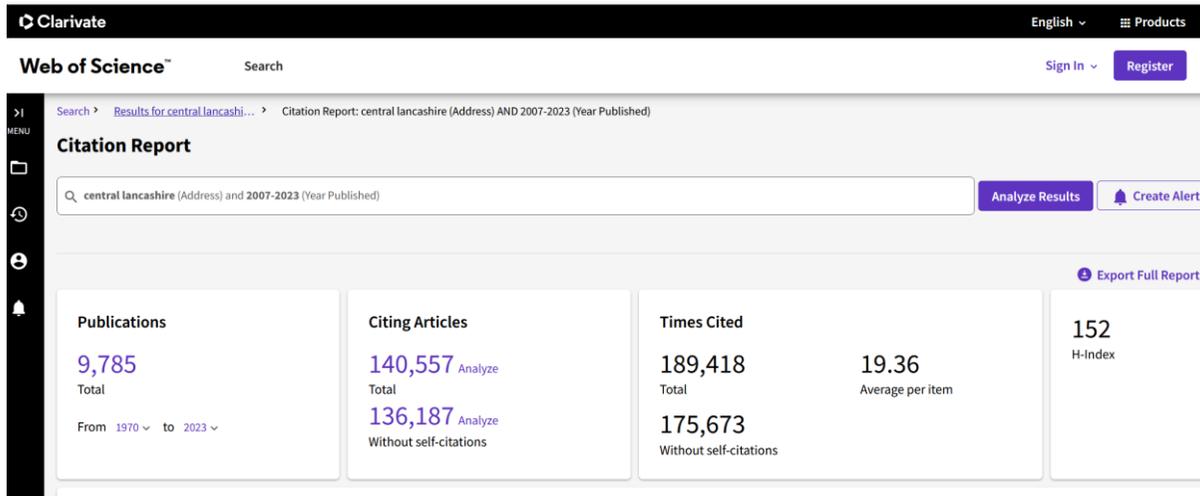
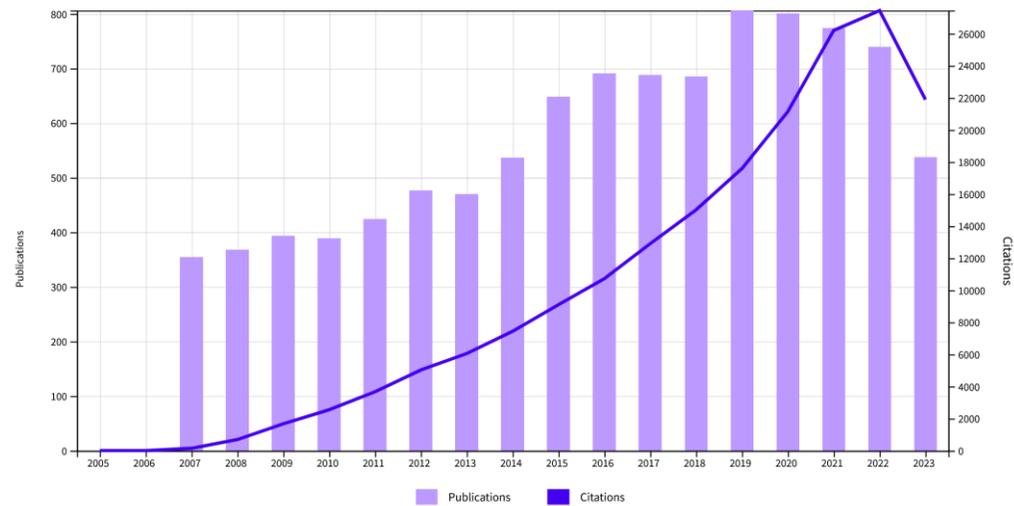


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1 2020 ESC Guidelines for the diagnosis and management of atrial fibrillation developed in collaboration with the European Association for Cardio-Thoracic Surgery (EACTS) Hindricks, G; Potpara, T; (...); Watkins, CL Feb 1 2021 EUROPEAN HEART JOURNAL 42 (5) , pp.373-498	0	41	453	1,031	486	670.67	2,012	
2 Superparamagnetic iron oxide nanoparticles (SPIONs): Development, surface modification and applications in chemotherapy Mahmoudi, M; Sant, S; (...); Sen, T Jan-feb 2011 ADVANCED DRUG DELIVERY REVIEWS 63 (1-2) , pp.24-46	138	111	126	90	64	104.38	1,357	
3 Using Fourier transform IR spectroscopy to analyze biological materials Baker, MJ; Trevisan, J; (...); Martin, FL Aug 2014 NATURE PROTOCOLS 9 (8) , pp.1771-1791	155	167	178	155	129	116.2	1,162	
4 Seven temperate terrestrial planets around the nearby ultracool dwarf star TRAPPIST-1 Gillon, M; Triaud, AHMJ; (...); Queloz, D Feb 23 2017 NATURE 542 (7642) , pp.456-+	175	167	112	113	68	131.29	919	
5 Galaxy and Mass Assembly (GAMA): survey diagnostics and core data release Driver, SP; Hill, DT; (...); Warren, SJ May 2011 MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY 413 (2) , pp.971-995	77	68	77	77	58	61.85	804	

Superparamagnetic iron oxide nanoparticles (SPIONs): Development, surface modification and applications in chemotherapy

By Mahmoudi, M (Mahmoudi, Morteza) [1], [2]; Sant, S (Sant, Shilpa) [3], [4]; Wang, B (Wang, Ben) [3], [4]; Laurent, S (Laurent, Sophie) [5], [6]; Sen, T (Sen, Tapas) [7]

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Abstract At present, nanoparticles are used for various biomedical applications where they facilitate laboratory diagnostics and therapeutics. More specifically for drug delivery purposes, the use of nanoparticles is attracting increasing attention due to their unique capabilities and their negligible side effects not only in cancer therapy but also in the treatment of other ailments. Among all types of nanoparticles, biocompatible superparamagnetic iron oxide nanoparticles (SPIONs) with proper surface architecture and conjugated targeting ligands/proteins have attracted a great deal of attention for drug delivery applications.

This review covers recent advances in the development of SPIONs together with their possibilities and limitations from fabrication to application in drug delivery. In addition, the state-of-the-art synthetic routes and surface modification of desired SPIONs for drug delivery purposes are described. (C) 2010 Elsevier BM. All rights reserved.

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