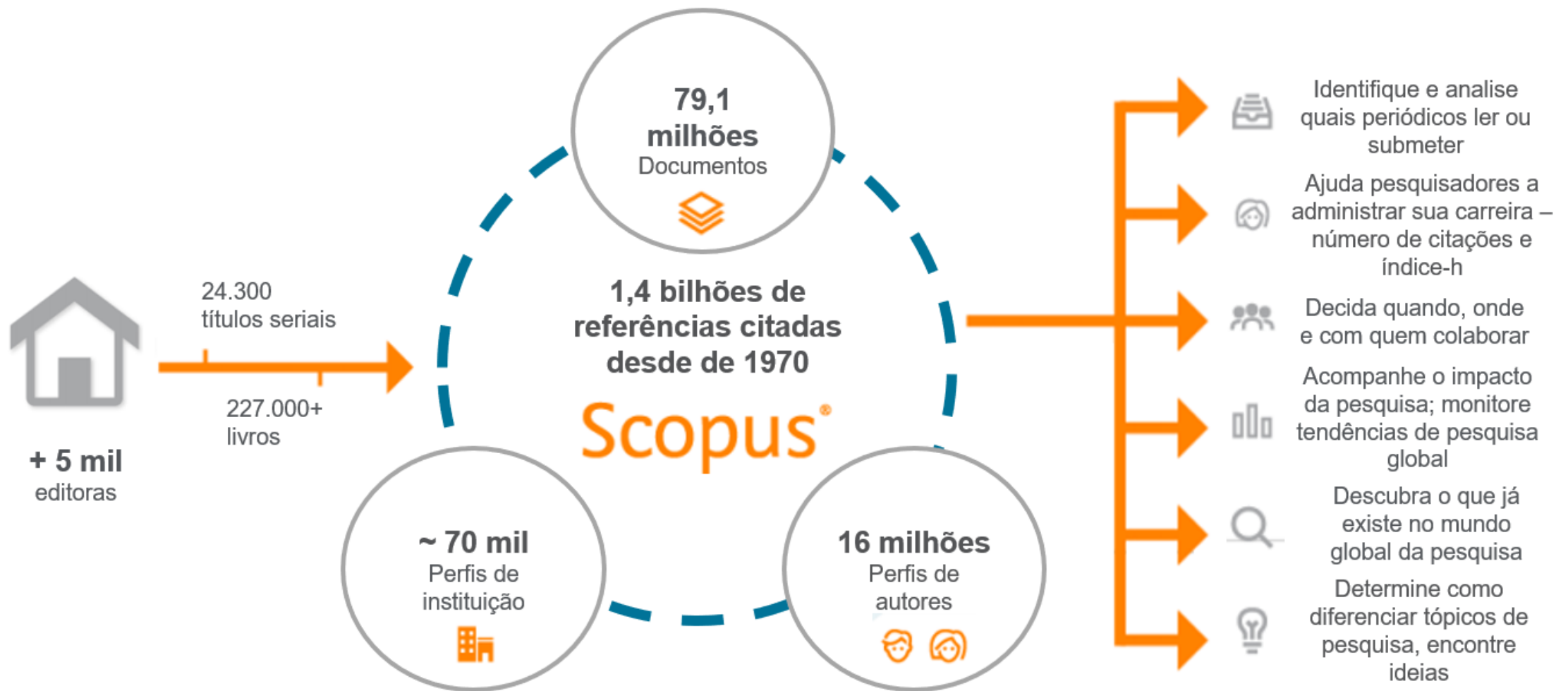




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<http://orcid.org/0000-0003-2164-0739>

Affiliation(s): ⓘ

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1992-2019 Universidade de Lisboa, Lisbon, Portugal

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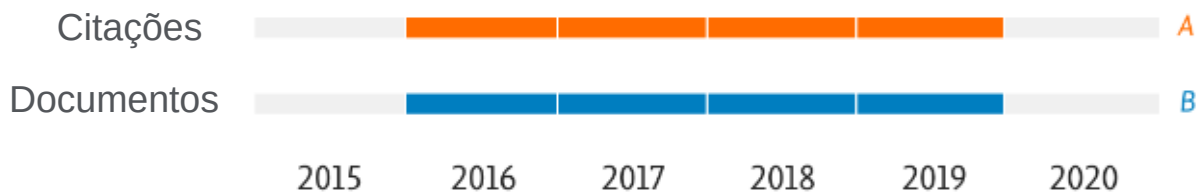


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N. Wu, Q. Wei, in *Functional Nanofibers and their Applications*, 2012

5.5.4 Microwave absorption

Chen et al.⁶³ fabricated the highly aligned array of Fe₃O₄/carbon nanotubes (CNT) coaxial nanofibers and doped them in poly (methyl methacrylate) matrix under a low magnetic field. The results showed that microwave absorption of the magnetically aligned composite at 8.5–12.5 GHz was evidently enhanced. Park et al.⁶⁴ fabricated the single-layered microwave absorbers employing both dielectric and magnetic lossy materials. CNFs were used as dielectric lossy materials and NiFe particles were used as magnetic lossy materials. An evaluation of their radar absorbing performance in the range of 2–18 GHz revealed that the mixed single-layered **radar absorbing materials (RAMs)** had improved absorbing characteristics with thinner matching thicknesses. The mixed RAM showed the 10 dB absorbing bandwidth of 4.0 GHz in the X-band (2.00 mm thickness) and 6.0 GHz in the Ku-band (1.49 mm thickness). Lamstra et al.⁶⁵ fabricated the porous, highly interconnected architecture and randomly oriented CoFe₂O₄/multivalued carbon nanotube (MWCNTs) composite nanofibers using electrospinning. The prepared nanofibrous composites are expected to exhibit improved microwave absorption due to the better match between the dielectric loss and magnetic loss. In order to achieve a higher absorbance in the 8–20 GHz range, Nanni et al.⁶⁶ dispersed CNFs into an epoxy resin matrix. The CNFs were chosen as a way of lowering filler content, while increasing the dielectric properties of the resulting

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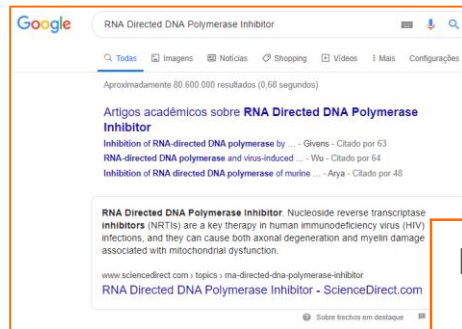
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Transmission and scanning electron microscopy are used to examine the sulphidation of hydrothermally grown [0001]-oriented ZnO nanorods in aqueous thioacetamide (CH₃C(S)NH₂) solution. At the early stages of growth, the reaction occurs preferentially on the (0001) top surface, confirmed to be Zn-polar by convergent beam electron diffraction, and on the lines of intersection of the {1010} facets. It is shown that the reaction involves surface migration of Zn species towards ZnS deposits. The presence of voids at the ZnS/ZnO interface also confirms a Kirkendall mechanism where ZnS grows from the top surface of the deposit.

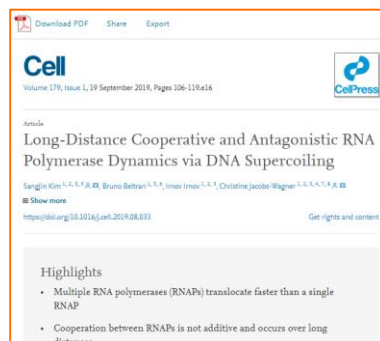
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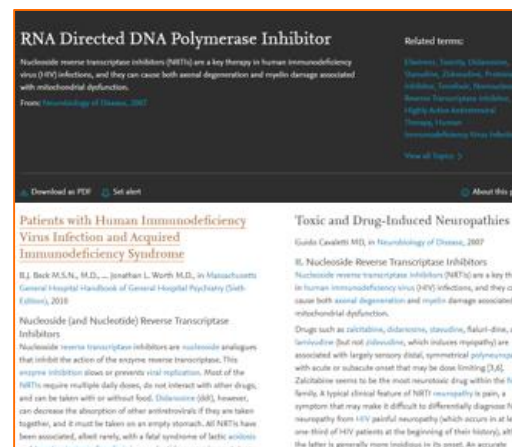


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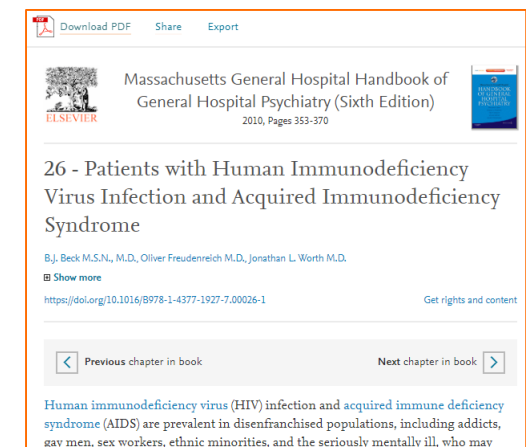
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