



Your Browser is out of date.

Update your browser to view ScienceDirect.

[View recommended browsers.](#)

Request details:

**Request ID:** 8b5f28f98b05bf47-FRA

**IP:** 178.214.4.5

**UTC time:** 2024-08-20T03:05:09+00:00

**Browser:** Mozilla/5.0 (X11; Linux x86\_64) Miniature.io/6.0 AppleWebKit/537.36 (KHTML, like Gecko) QtWebEngine/5.12.4 Chrome/69.0.3497.128 Safari/537.36

**ELSEVIER**

[About ScienceDirect](#) [Shopping cart](#) [Contact and support](#) [Terms and conditions](#) [Privacy policy](#)

Cookies are used by this site. By continuing you agree to the [use of cookies](#).

Copyright © 2024 Elsevier B.V., its licensors, and contributors. All rights are reserved, including those for text and data mining, AI training, and similar technologies. For all open access content, the Creative Commons licensing terms apply.

 RELX Group™