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- Scientific.Net 平台
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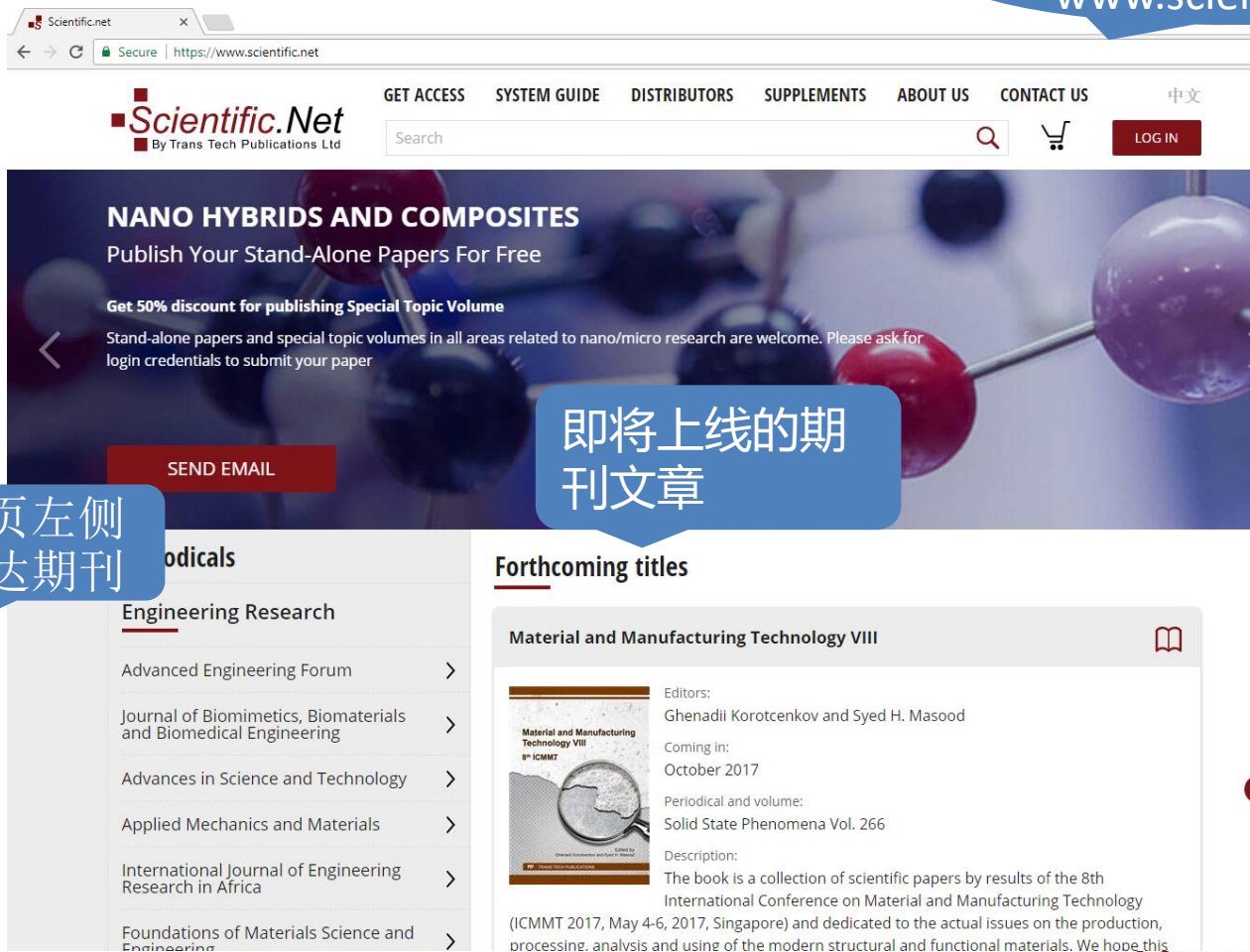
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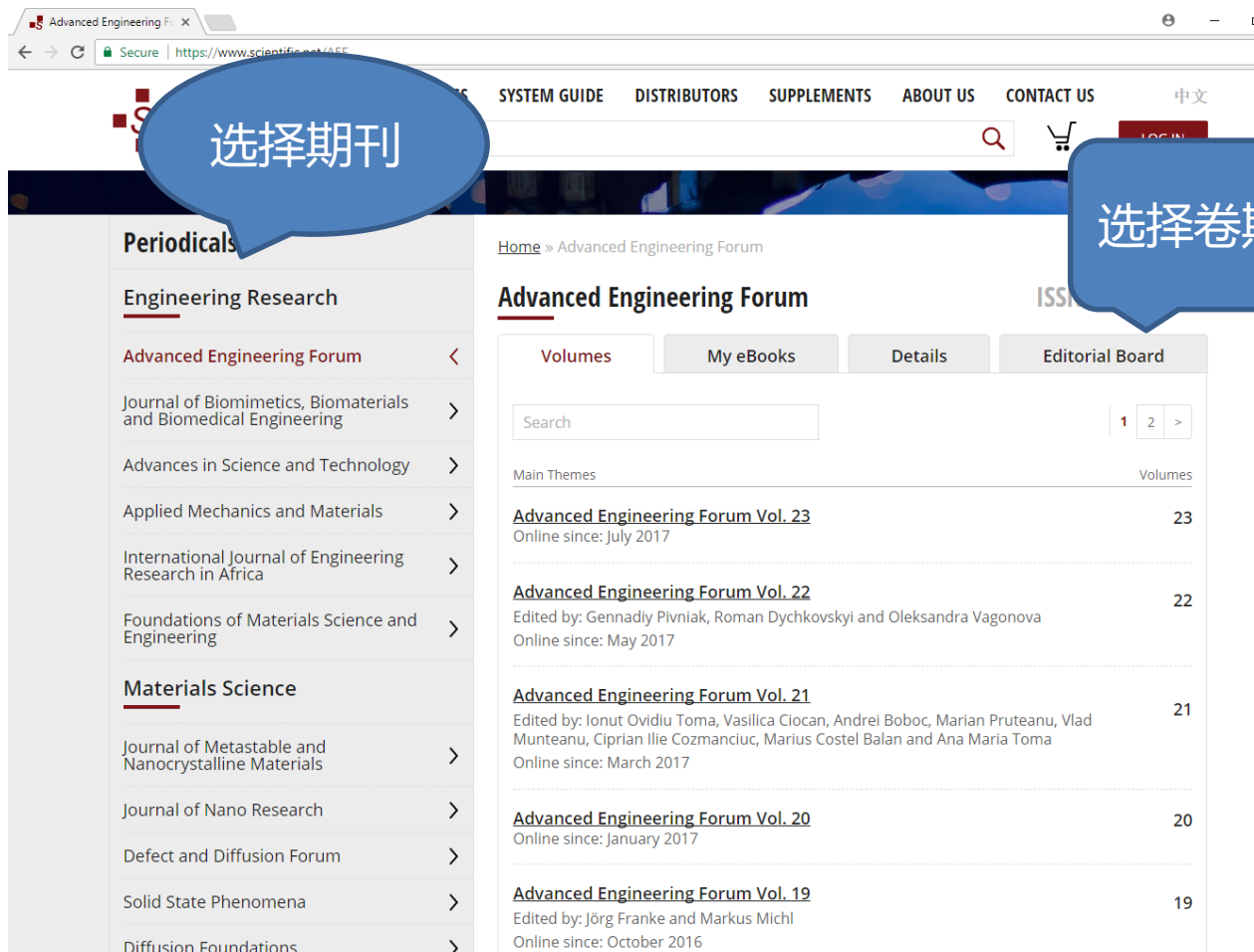
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## Advanced Engineering Forum Vol. 23

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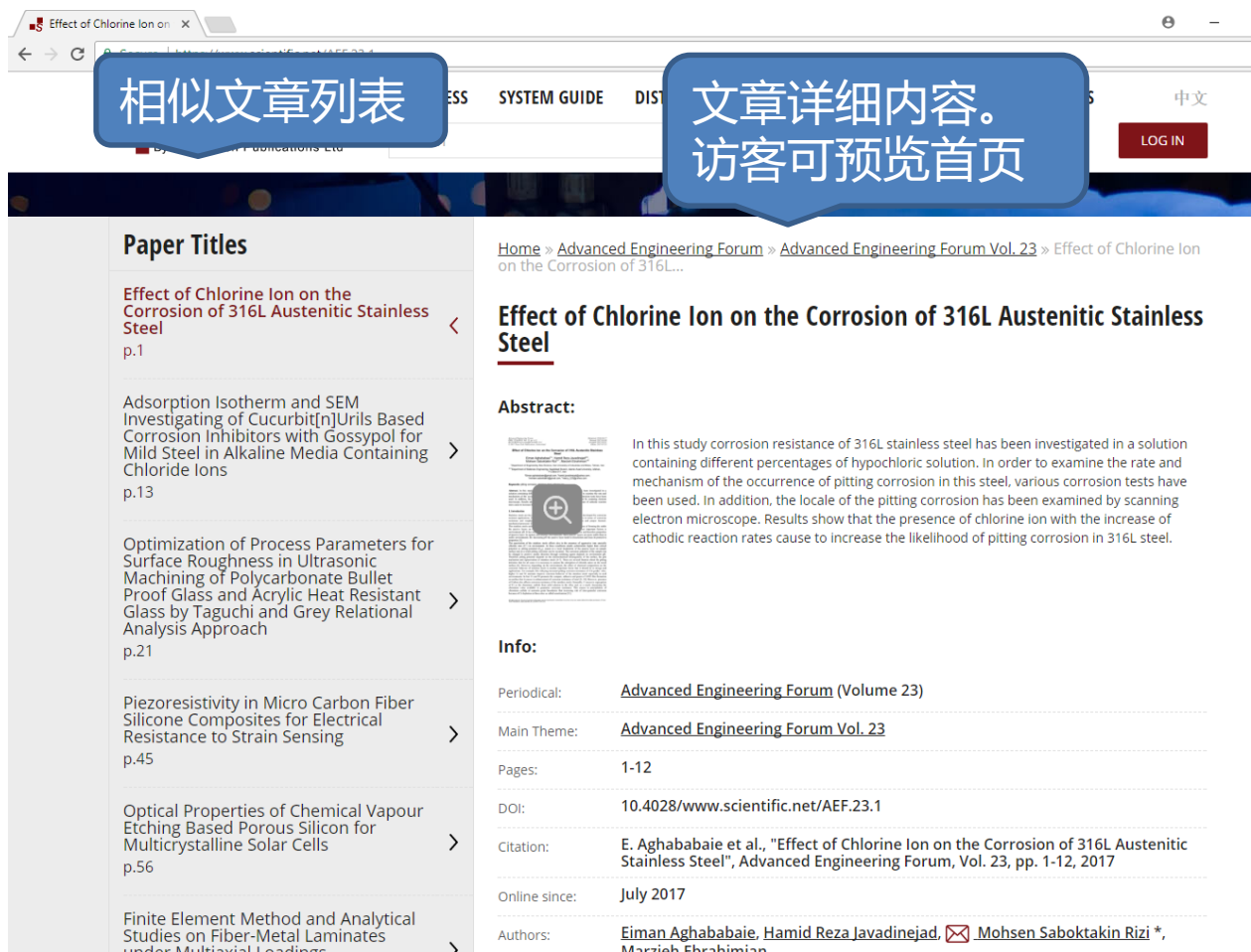
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**Effect of Chlorine Ion on the Corrosion of 316L Austenitic Stainless Steel**

**Abstract:**

In this study corrosion resistance of 316L stainless steel has been investigated in a solution containing different percentages of hypochloric solution. In order to examine the rate and mechanism of the occurrence of pitting corrosion in this steel, various corrosion tests have been used. In addition, the locale of the pitting corrosion has been examined by scanning electron microscope. Results show that the presence of chlorine ion with the increase of cathodic reaction rates cause to increase the likelihood of pitting corrosion in 316L steel.

**Info:**

Periodical: [Advanced Engineering Forum \(Volume 23\)](#)

Main Theme: [Advanced Engineering Forum Vol. 23](#)

Pages: 1-12

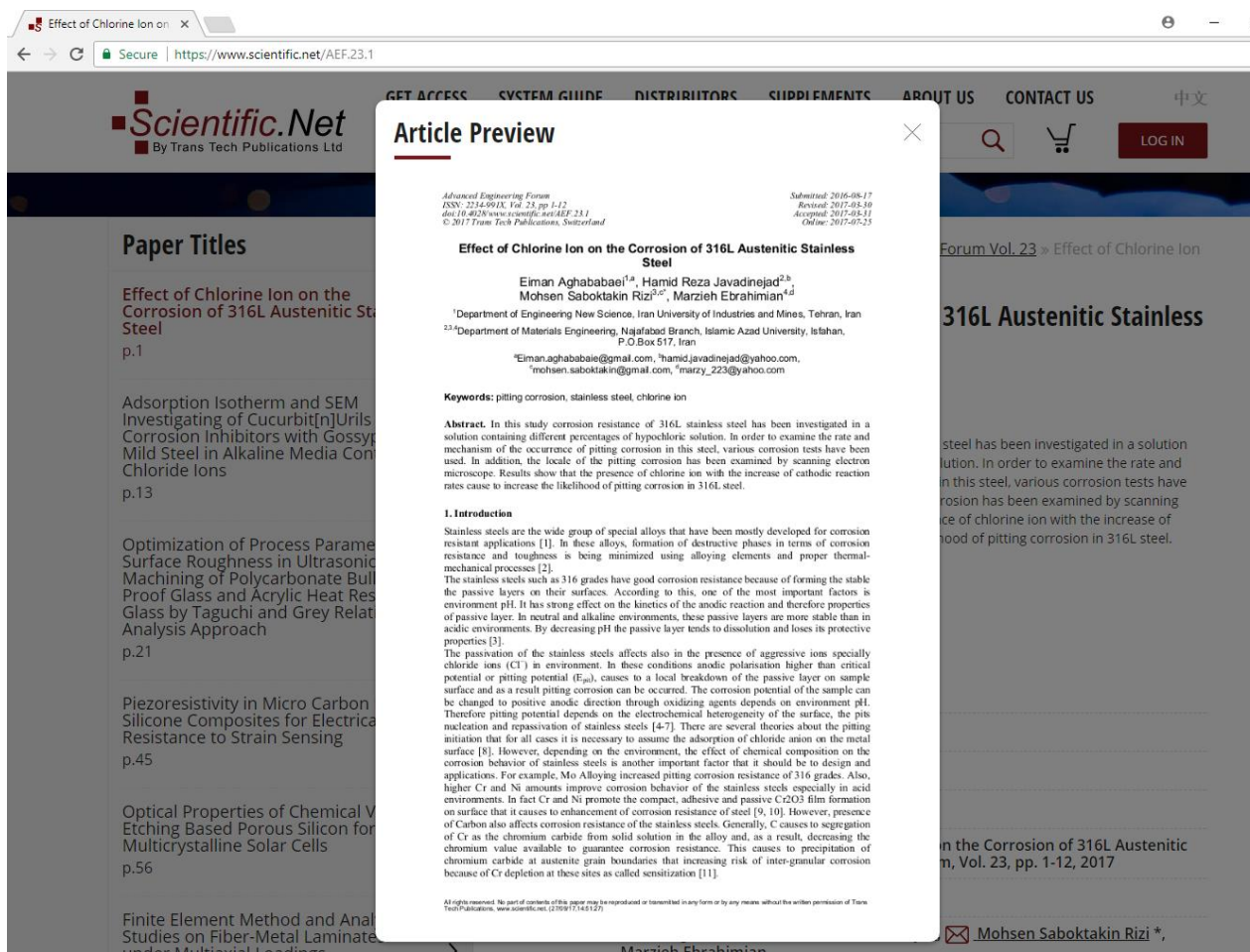
DOI: [10.4028/www.scientific.net/AEF.23.1](https://doi.org/10.4028/www.scientific.net/AEF.23.1)

Citation: E. Aghababaie et al., "Effect of Chlorine Ion on the Corrosion of 316L Austenitic Stainless Steel", *Advanced Engineering Forum*, Vol. 23, pp. 1-12, 2017

Online since: July 2017

Authors: [Eiman Aghababaie](#), [Hamid Reza Javadinejad](#), [Mohsen Saboktakin Rizi](#)\*, [Marzieh Fbrahimian](#)

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