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BÁCH KHOA HÀ NỘI**
HANOI UNIVERSITY
OF SCIENCE AND TECHNOLOGY

Instructions for Manuscript Submission

The 20th International Conference on Advanced Materials and Technology 2026 (ICAMT 2026) in conjunction with the 2nd International Conference on the Physical Properties and Application of Advanced Materials 2026 (ICPMAT 2026)

23-25 July 2026, Hanoi University of Science and Technology,
No.1, Dai Co Viet street, Hai Ba Trung, Hanoi, Vietnam

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 Editors:
Brian Salisbury, Cholid Mawardi, Gema Sukmawati
Suryadi, Joerg Neumann and Dr. Hilfi Pardi

Coming in:
March 2026

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The screenshot displays the Scientific.Net website interface. At the top, a dark red navigation bar contains the following elements: 'Published Papers', 'Editor', and 'Author' (highlighted with a yellow box and a blue hand icon pointing to it), a shopping cart icon with '0 items', and the user name 'Nguyen Hoang Viet' with a dropdown arrow. Below the navigation bar is the Scientific.Net logo, which includes the text 'Scientific.Net' and 'Publisher in Materials Science & Engineering'. To the right of the logo are navigation links: 'FOR LIBRARIES', 'FOR PUBLICATION', 'OPEN ACCESS', 'DOWNLOADS', 'ABOUT US', and 'CONTACT US'. A search bar with the placeholder text 'Search' and a 'SEARCH' button is also present. Below the navigation bar is a large banner image with the text 'OPEN ACCESS' and 'Open Access Publishing'. Below the banner is a sidebar with 'Journals' and 'Books' tabs. The 'Journals' tab is active, showing a list of journals: 'Engineering Research', 'Advanced Engineering Forum', 'Applied Mechanics and Materials', and 'Engineering Chemistry'. The main content area is titled 'Forthcoming Books' and features a book listing for 'The 3rd Jakarta International Conference on Multidisciplin...'. The listing includes the book cover, the editors' names (Brian Salisbury, Cholid Mawardi, Gema Sukmawati, Suryadi, Joerg Neumann, and Dr. Hilfi Pardi), and the release date (March 2026).

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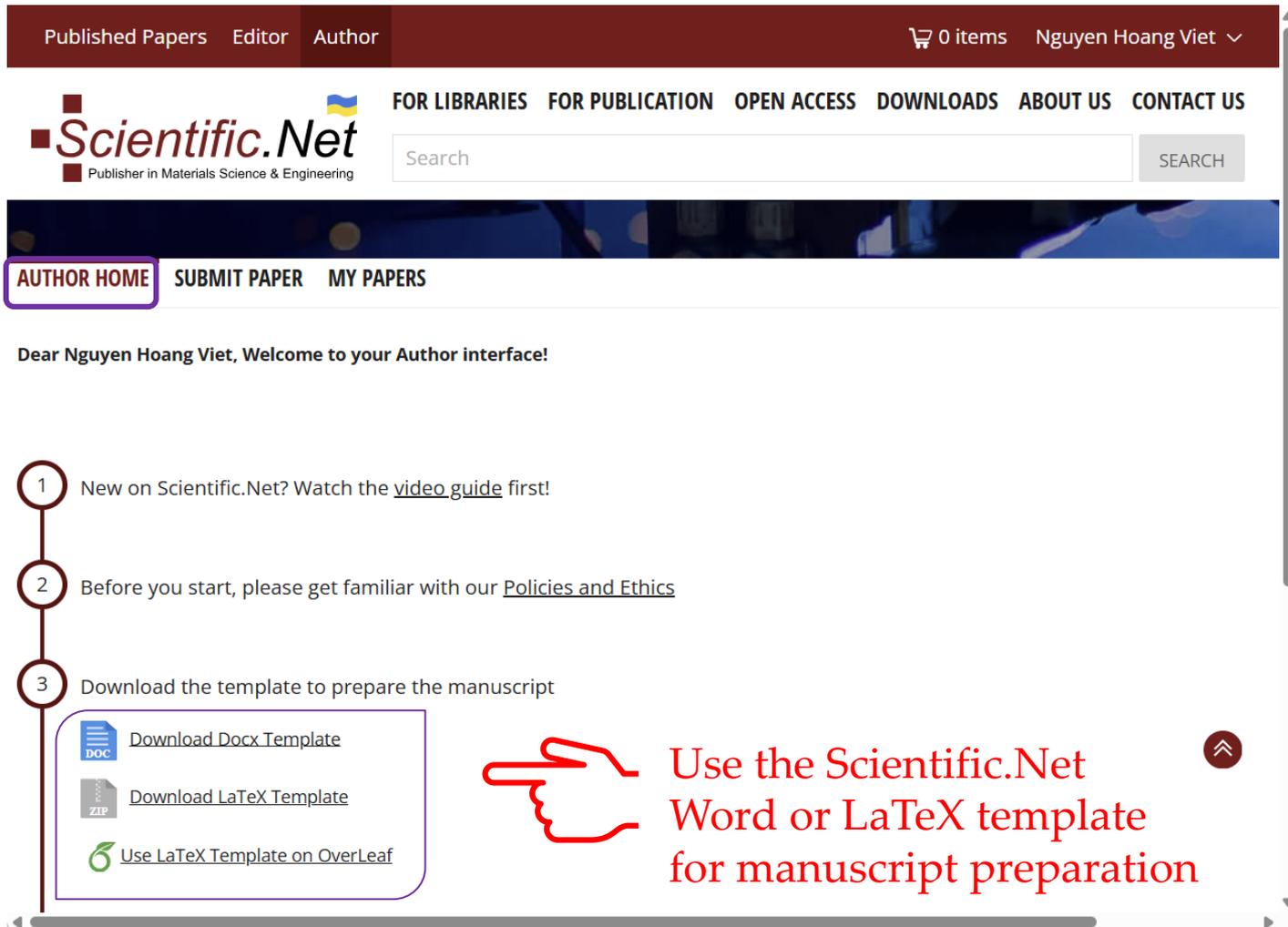
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Select Author area

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The screenshot shows the author interface of Scientific.Net. At the top, there is a navigation bar with 'Published Papers', 'Editor', and 'Author' tabs. The 'Author' tab is active. To the right of the navigation bar, there is a shopping cart icon with '0 items' and the user's name 'Nguyen Hoang Viet'. Below the navigation bar is the Scientific.Net logo and a search bar. The main content area has a header with 'AUTHOR HOME', 'SUBMIT PAPER', and 'MY PAPERS' tabs. A blue hand icon points to the 'AUTHOR HOME' tab. Below the header, there is a welcome message: 'Dear Nguyen Hoang Viet, Welcome to your Author interface!'. A vertical list of three numbered steps is shown on the left. Step 1: 'New on Scientific.Net? Watch the [video guide](#) first!'. Step 2: 'Before you start, please get familiar with our [Policies and Ethics](#)'. Step 3: 'Download the template to prepare the manuscript'. A purple box highlights the step 3 options: 'Download Docx Template', 'Download LaTeX Template', and 'Use LaTeX Template on OverLeaf'. A red hand icon points to the text 'Use the Scientific.Net Word or LaTeX template for manuscript preparation' on the right. A scroll bar is visible on the right side of the page.

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The screenshot shows the author submission interface on the Scientific.Net website. The top navigation bar includes 'Published Papers' and 'Author' tabs, a shopping cart icon with '0 items', and the user name 'Nguyen Thi Hoang Oanh'. The main header features the Scientific.Net logo and navigation links: 'FOR LIBRARIES', 'FOR PUBLICATION', 'OPEN ACCESS', 'DOWNLOADS', 'ABOUT US', and 'CONTACT US'. A search bar is also present.

The main content area is titled 'AUTHOR HOME' and contains a 'SUBMIT PAPER' button, which is highlighted with a purple box and a blue hand cursor. Below this is a list of steps for submission:

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2. Edit Paper
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The '1. Title' step is expanded, showing the title 'Your Paper will be submitted in the Title:' and a radio button selection for the conference: 'The 2nd International Conference on Advanced Materials and Technologies & The 20th International Conference on the Physical Properties and Application of Advanced Materials'. A blue hand cursor points to the radio button. Below the title section is a 'CONTINUE' button, highlighted with a purple box and an orange mouse cursor. A green target icon is positioned to the left of the '1. Title' step.

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Abstract

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This study examines the formation of fayalite (Fe₂SiO₄) during the direct reduction of iron ore composite briquettes using resistance heating, microwave heating, and mini high-frequency induction heating. Direct reduction is critical for converting iron ore into metallic iron at temperatures below 1200°C and the presence of fayalite can significantly impact the reduction process's efficiency and the final product's quality. Resistance heating provides controlled and uniform temperature distribution, leading to consistent reduction but at a slower rate. Microwave heating offers rapid and volumetric heating, significantly reducing processing time and achieving nearly complete conversion to metallic iron and fayalite within shorter durations. Induction heating generates intense, localized heat, rapidly accelerating the reduction process and yielding the highest concentration of metallic iron with

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REFERENCES	DOI
[1] Donskoi E, McElwain DLS, Wibberley LJ. Estimation and modeling of parameters for direct reduction in iron ore/coal composites: Part II. Kinetic parameters. Metallurgical and Materials Transactions B. 2003;34(2):255-266.	10.1007/s11663-003-0012
[2] Donskoi E, McElwain DLS. Estimation and modeling of parameters for direct reduction in iron ore/coal composites: Part I. Physical parameters. Metallurgical and Materials Transactions B. 2003;34(1):93-102.	10.1007/s11663-003-0059
[3] Wynnyckyj JR, Fahidy TZ. Solid state sintering in the induration of iron ore pellets. Metallurgical Transactions. 1974;5(5):991-1000.	10.1007/bf02644310
[4] Ross HU. The Fundamental Aspects of Iron Ore Reduction. Symposium on Science and Technology of Sponge Iron and Its Conversion to Steel; Feb. 19-21; CSIR - National Metallurgical Laboratory, Jamshedpur1973.	

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