

<https://www.scientific.net/KEM>

The screenshot displays the Scientific.Net website interface. At the top, there is a navigation bar with links for "DISTRIBUTION & ACCESS", "FOR PUBLICATION", "DOCU CENTER", "ABOUT US", and "CONTACT US". The Scientific.Net logo is on the left, and a search bar is on the right. Below the navigation bar, there are tabs for "Journals" and "Books". The "Journals" tab is active, showing a list of journals under "Engineering Research" and "Materials Science". The "Key Engineering Materials" journal page is displayed, featuring a search bar for volumes, a volume selector (1-5), and a description of the journal. The page also includes social media icons for Facebook, Twitter, and LinkedIn. The Windows taskbar is visible at the bottom, showing the time as 1:30 PM on 7/15/2020.

WhatsApp x Kotak Masuk - dina@staff.l... x Dina Maizana - Google Sch... x Key Engineering Materials | x

scientific.net/KEM

Scientific.Net  
Publisher in Materials Science & Engineering

DISTRIBUTION & ACCESS FOR PUBLICATION DOCU CENTER ABOUT US CONTACT US

Search SEARCH

Journals Books

Engineering Research

Applied Mechanics and Materials >

Advances in Science and Technology >

International Journal of Engineering Research in Africa >

Advanced Engineering Forum >

Journal of Biomimetics, Biomaterials and Biomedical Engineering >

Materials Science

Defect and Diffusion Forum >

Home » Key Engineering Materials

Key Engineering Materials ISSN: 1662-9795

Details Volumes Editorial Board

Enter Number of Volume 1 2 3 4 5 ... > >>

Volumes

Key Engineering Materials Vol. 852  
Edited by: Dr. Zhenyu Du  
Online since: July 2020  
Description: With the progress of the nanotechnology and production methods, composite materials and polymeric materials are becoming lighter, cheaper, more durable, and more [...more](#)

EN 1:30 PM 7/15/2020

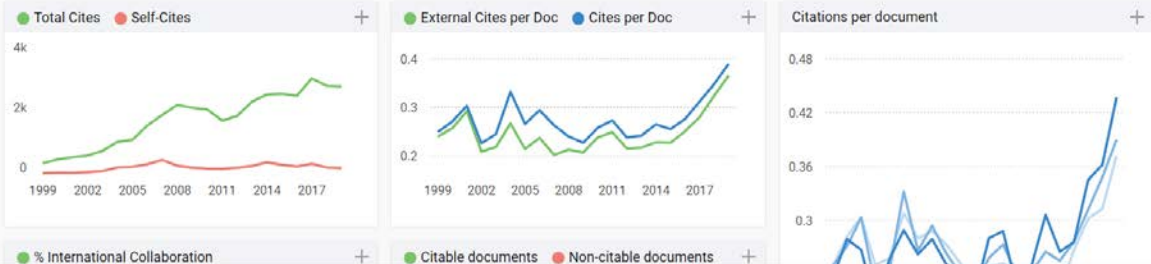
<https://www.scimagojr.com/journalsearch.php?q=12378&tip=sid>

The screenshot displays the Scimago Journal & Country Rank website. The browser's address bar shows the URL <https://www.scimagojr.com/journalsearch.php?q=12378&tip=sid>. The page header includes the Scimago logo and navigation links for Home, Journal Rankings, Country Rankings, Viz Tools, Help, and About Us. A search bar is present with the placeholder text "Enter Journal Title, ISSN or Publisher Name".

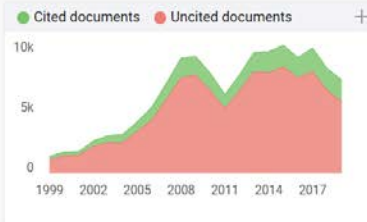
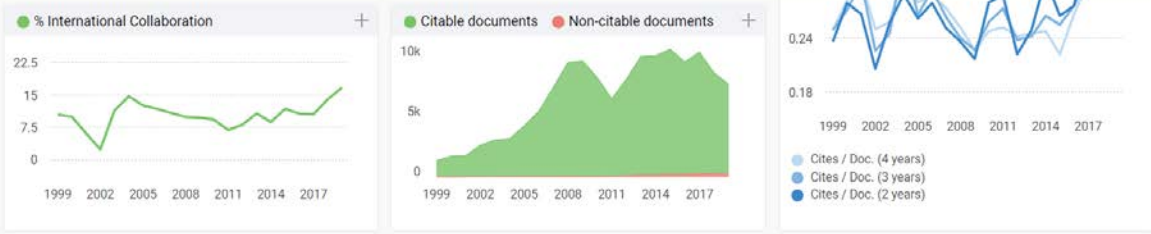
The main content area features the journal title "Key Engineering Materials" in a large font. Below the title, the country is listed as "Switzerland" with a "SIR Ranking of Switzerland" indicator. A large "50" is displayed, representing the H Index. The subject area and category are listed as "Engineering" (Mechanical Engineering, Mechanics of Materials) and "Materials Science" (Materials Science (miscellaneous)). The publisher is "Trans Tech Publications", and the publication type is "Book Series". The ISSN is "10139826" and the coverage is "1982, 1986-1989, 1991, 1994-2020". The scope is described as a peer-reviewed periodical covering basic and applied aspects of synthesis and research, modelling, processing and application of advanced engineering materials.

The page also includes a "Homepage" link and a cookie consent banner at the bottom.

Country	Switzerland -  SIR Ranking of Switzerland
Subject Area and Category	Engineering Mechanical Engineering Mechanics of Materials Materials Science Materials Science (miscellaneous)
Publisher	Trans Tech Publications
Publication type	Book Series
ISSN	10139826
Coverage	1982, 1986-1989, 1991, 1994-2020
Scope	"Key Engineering Materials" is a peer-reviewed periodical which covers entire range of basic and applied aspects of the synthesis and research, modelling, processing and application of advanced engineering materials. "Key Engineering Materials" is one of the largest periodicals in its field. "Key Engineering Materials" specializes in the publication of thematically complete volumes from international conference proceedings and complete special topic volumes. We do not publish stand-alone papers by individual authors. Authors retain the right to publish an extended and significantly updated version in another periodical.



This website uses cookies to ensure you get the best experience on our website Got it!



**Key Engineering Materials** ← Show this widget in your own website

Materials Science (miscellaneous) best quartile

SJR 2019 0.18

powered by scimagojr.com

Just copy the code below and paste within your html code:

```
<a href="https://www.scimagojr.com" style="font-size: 0.8em; color: #ccc; text-decoration: none; border: 1px solid #ccc; padding: 2px 5px; display: inline-block;">https://www.scimagojr.com
```

This website uses cookies to ensure you get the best experience on our website Got it!

<https://www.scientific.net/KEM.594-595.1136>

The screenshot displays the Scientific.Net website interface. At the top, there is a navigation bar with links for 'DISTRIBUTION & ACCESS', 'FOR PUBLICATION', 'DOCU CENTER', 'ABOUT US', and 'CONTACT US'. A search bar is located below the navigation bar. The main content area is divided into two columns. The left column, titled 'Paper Titles', lists several articles with their page numbers. The right column features the article 'Effect Different Limb of Transformer Core Assemble on Performance' with an abstract, a thumbnail image, and an 'ADD TO CART' button. Below the article, there is an 'Info:' section providing details such as the journal name, editors, pages, DOI, citation, authors, keywords, price, and permissions. The bottom of the page shows a Windows taskbar with various application icons and the system clock indicating 1:29 PM on 7/15/2020.

**Scientific.Net**  
Publisher in Materials Science & Engineering

DISTRIBUTION & ACCESS FOR PUBLICATION DOCU CENTER ABOUT US CONTACT US

Search SEARCH

**Paper Titles**

- Leachability of Metal Ions in TCLP Leachate of Solidified Petroleum Sludge p.1094
- Determination of Non-Linear Material Constants of RTV Silicone Applied to a Soft Actuator for Robotic Applications p.1099
- Fatigue Crack Initiation and Growth of Aluminum Alloy with Stress Ratio Effects p.1105
- A Study on Relationship between Porosity and Compressive Strength for Geopolymer Paste p.1112
- Wear-Resistance of Nitrided W-Mo-High Speed Steel in Abrasive Wear Conditions p.1117
- Performance of Thermoelectric Cooling System: Effect of Aluminium Heat Sink and Heat Dissipation p.1122
- Effects of Knife Shapes and Cutting Speeds of a Mower on the Power Consumption for Pulverizing Sweet Potato Vine p.1126
- The Effect of Solution Temperature on Electrodeposit-ZnO Thin Film p.1131
- Effect Different Limb of Transformer Core Assemble on Performance p.1136**

Home » Key Engineering Materials » Key Engineering Materials Vols. 594-595 » Effect Different Limb of Transformer Core Assemble...

### Effect Different Limb of Transformer Core Assemble on Performance

1082 15

**Abstract:**  
This paper described the performance of transformer affected by different limb assembling. The experiment that used to investigate core is no-load, short circuit and load test to find the core loss, copper loss, flux leakage at corner joint and limb and total harmonic distortion of the flux at flux density range from 0.2 T to 1.6 T, 50 Hz. From the result of this investigation shows the core loss of transformer assembled with 2 limbs is 18.45% and 32.21% better than the transformer assembled with 3 and 5 limbs respectively at a flux density of 1.6T, 50 Hz. To increase the numbers of core limb assemble will reduce the efficiency of transformer.

ADD TO CART

**Info:**

Periodical: Key Engineering Materials (Volumes 594-595)

Edited by: Mohd Mustafa Al Bakri Abdullah, Liyana Jamaludin, Alida Abdullah, Rafiza Abd Razak and Kamarudin Hussin

Pages: 1136-1140

DOI: <https://doi.org/10.4028/www.scientific.net/KEM.594-595.1136>

Citation: [Cite this paper](#)

Online since: December 2013

Authors: Dina Maizana, Mohd Afif Mohd Radzi, Nuriziani Hussin

Keywords: 3%SiFe, Copper Loss, Core Loss, Flux Density, Limb

Export: RIS, BibTeX

Price: 36,00 €

Permissions: [Request Permissions](#)

Share: [f](#) [t](#) [+](#)

ADD TO CART

1:29 PM 7/15/2020