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Judul paper : Catalytic steam reforming of bio-oil-derived acetic acid over Ni/CeO₂-ZnO nanoparticle catalysts: Correlations of CeO₂-ZnO synergism and nickel loading with their properties and catalytic behaviors

Jurnal : Fuel Processing Technology

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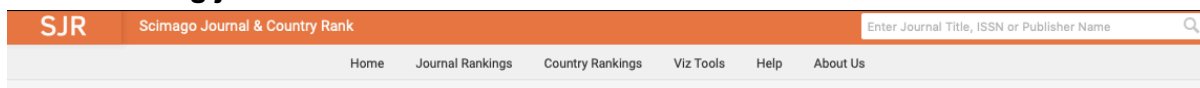
JIF WoS : 4,982

Penulis : Corresponding Author: Peng Fu
Co-authors: Shan Luo, Fazhe Sun, Bing Wang, Zhang Andong, Jianlin Wang, Qi Sun)

Kronologi korespondensi:

NO	TANGGAL	AKTIVITAS
1.	8 Maret 2020	Permintaan review artikel pada Fuel Processing Technology
2.	8 Maret 2020	Ucapan terima kasih dari editor atas kesediaan untuk mereview artikel pada Fuel Processing Technology
3.	11 Maret 2020	Ucapan terima kasih dari editor telah selesai melaksanakan review artikel pada Fuel Processing Technology

Bukti indexing jurnal :



Fuel Processing Technology

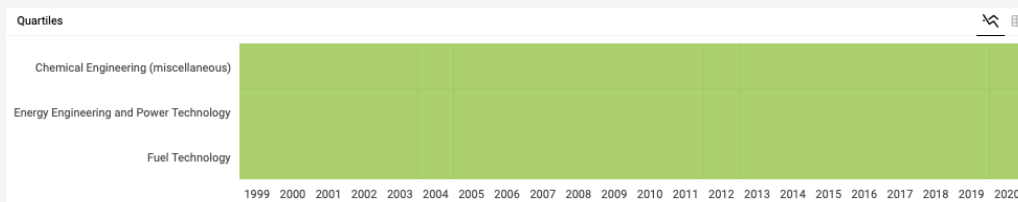
<p>COUNTRY</p> <p>Netherlands</p> 	<p>SUBJECT AREA AND CATEGORY</p> <ul style="list-style-type: none"> Chemical Engineering <ul style="list-style-type: none"> Chemical Engineering (miscellaneous) Energy <ul style="list-style-type: none"> Energy Engineering and Power Technology Fuel Technology 	<p>PUBLISHER</p> <p>Elsevier</p>	<p>H-INDEX</p> <h1 style="font-size: 2em; margin: 0;">146</h1>
<p>PUBLICATION TYPE</p> <p>Journals</p>	<p>ISSN</p> <p>03783820</p>	<p>COVERAGE</p> <p>1977-2021</p>	<p>INFORMATION</p> <p>Homepage</p> <p>How to publish in this journal</p> <p>Contact</p>

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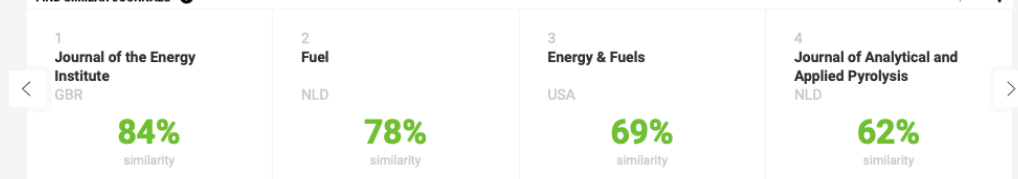
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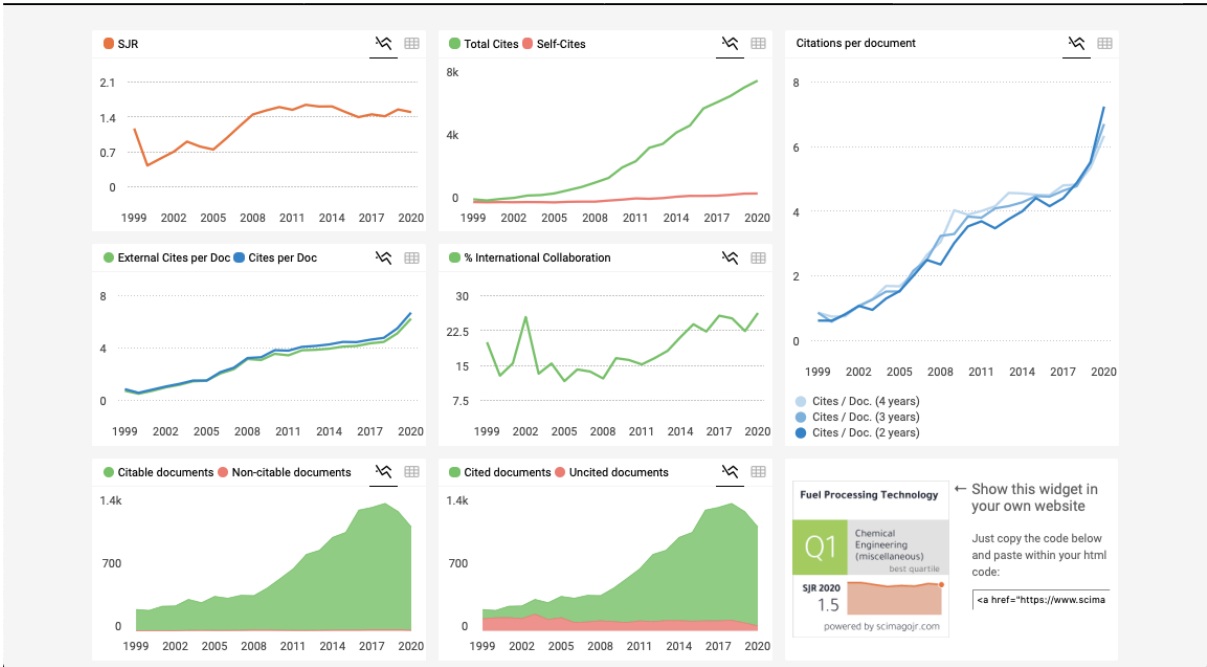
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Invitation to review manuscript FUPROC_2020_334 for journal Fuel Processing Technology

1 message

Erik Heeres (Fuel Processing Technology) <Evisesupport@elsevier.com>
Reply-To: h.j.heeres@rug.nl
To: dewiselvia@mail.unnes.ac.id

Sun, Mar 8, 2020 at 6:45 PM

Ref: FUPROC_2020_334
Title: Catalytic steam reforming of bio-oil-derived acetic acid over Ni/CeO₂-ZnO nanoparticle catalysts: Correlations of CeO₂-ZnO synergism and nickel loading with their properties and catalytic behaviors
Journal: Fuel Processing Technology
Corresponding Author: Peng Fu
Co-authors: Shan Luo, Fazhe Sun, Bing Wang, Zhang Andong, Jianlin Wang, Qi Sun

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Kind regards,

Erik Heeres
Associate Editor
Fuel Processing Technology

Abstract:

The steam reforming of bio-oil-derived acetic acid over the developed novel Ni/CeO₂-ZnO nanoparticle catalysts for hydrogen production was studied. The correlations of CeO₂-ZnO synergism and nickel loading with their properties and catalytic behaviors were revealed. The H₂, CO and potential H₂ yields followed a Gaussian normal distribution with increasing the CeO₂ to ZnO mass ratio (CZMR). An exponential function equation was established to correlate the H₂, CO and potential H₂ yields with Ni loading. As the CZMR increased from 0 to 1/3, the H₂ yield increased from 57.8% to 69.4% with a growth rate of 20.1%. Further increasing the CZMR from 1/3 to 3, the H₂ yield decreased by 37.6%. CO yield showed a similar trend to H₂ yield with increasing the CZMR, which first increased to the peak, then started to decrease rapidly and finally stabilized. The yield of H₂ increased significantly from 20.6% to 73.5% with the nickel loading from 0% to 15%. Further increasing the nickel loading from 15% to 25%, the H₂ yield increasing by only 5.8%. With the CZMR of 1/3 and the nickel loading of 15%, the selectivities of H₂ and CO were as high as 91.6% and 42.3%, respectively.

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The screenshot shows the ACS Publications website interface. At the top, there are navigation links for ACS, ACS Publications, C&EN, and CAS, along with a search bar and user options like 'My Activity' and 'Publications'. The article title is 'Catalytic Steam Reforming of Bio-Oil-Derived Acetic Acid over CeO₂-ZnO Supported Ni Nanoparticle Catalysts' by Shan Luo, Peng Fu*, Fazhe Sun*, Bing Wang, Andong Zhang, Jianlin Wang, and Qi Sun. The article is published in ACS Omega, 2020, 5, 31, 19727-19736. It has 410 article views and 1 citation. The subjects listed are Organic acids, Oxides, Catalysts, Water, and Nickel. A PDF file (6 MB) is available for download. The abstract begins with 'The steam reforming of bio-oil-derived acetic acid over the developed Ni/CeO₂-ZnO nanoparticle catalysts for hydrogen production was studied. The correlations of CeO₂ to ZnO mass ratio (CZMR) and nickel loading with the properties and performances of Ni/CeO₂-ZnO catalysts were explored. The H₂, CO, and potential H₂ yields followed a Gaussian normal distribution.' A diagram of the experimental setup is partially visible on the right.

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