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HASIL PENILAIAN SEJAWAT SEBIDANG ATAU *PEER REVIEW*
KARYA ILMIAH : JURNAL ILMIAH

Judul Jurnal Ilmiah (Artikel)	:	**Evaluation of Novel Integrated Dielectric Barrier Discharge Plasma as Ozone Generator**		
Nama/ Jumlah Penulis	:	**Gunawan/10**		
Status Pengusul	:	penulis ke-2		
Identitas Jurnal Ilmiah	:	a. Nama Jurnal	:	Bulletin of Chemical Reaction Engineering & Catalysis
		b. Nomor ISSN	:	1978-2993
		c. Vol, No., Bln Thn	:	12, 1, April 2017
		d. Penerbit	:	Department of Chemical Engineering, Diponegoro University
		e. DOI artikel (jika ada)	:	10.9767/bcrec.12.1.605.24-31
		f. Alamat web jurnal	:	https://ejournal2.undip.ac.id/index.php/bcrec/
		Alamat Artikel	:	https://ejournal2.undip.ac.id/index.php/bcrec/search?simpleQuery=Evaluation+of+Novel+Integrated+Dielectric+Barrier+Discharge+Plasma+as+Ozone+Generator&searchField=query
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c. Kecukupan dan kemutahiran data/informasi dan metodologi (30%)	12			11
d. Kelengkapan unsur dan kualitas terbitan/jurnal (30%)	12			12
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Nilai Pengusul = 0,4/9 x 39 = 1,7				

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2. **<u>Ruang lingkup dan kedalaman pembahasan:</u>**
   Ruang lingkup jurnal ini tentang evaluasi plasma pelucutan barrier dielektrik terintergrasi yang baru sebagai pembangkit ozon. Pembahasannya cukup mendalam dengan menggunakan instrumentasi pengujian yg sangat baik. Pembahasannya disertai referensi yang menguatkan data yang diperoleh.
3. **<u>Kecukupan dan kemutakhiran data/informasi dan metodologi:</u>**
   Data/informasi yang disampaikan cukup baik dan mutakhir untuk membahas data yang ada dan dikaitkan dengan referensi pendukung dan metodologinya disampaikan secara detil Referensi yang digunakan(42% dari 5 th terakhir)
4. **<u>Kelengkapan unsur dan kualitas terbitan:</u>**
   Unsur artikel lengkap, kualitas jurnal sangat bagus dan jurnal Q3 bidang kimia (Bulletin of Chemical Reaction Engineering & Catalysis yang diterbitkan oleh Department of Chemical Engineering, Diponegoro University).

Semarang, 10 Juli 2021
Reviewer I

Prof. Dr. Dra. Meiny Suzery, M.S.
NIP. 196005101989032001
Unit Kerja :FSM Universitas Diponegoro
Bidang Ilmu: Kimia Organik

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HASIL PENILAIAN SEJAWAT SEBIDANG ATAU *PEER REVIEW*
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d. Kelengkapan unsur dan kualitas terbitan/jurnal (30%)	12			11,5
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2. <u>Ruang lingkup dan kedalaman pembahasan:</u>
Ruang lingkup artikel terkait untuk meneliti evaluasi **Integrated Dielectric Barrier Discharge Plasma baru untuk pembangkit plasma,** pembahasan penelitian sudah dilakukan dengan cukup mendalam dalam membahas nya dengan instrumen SEM, dan pengukuran variabel yang digunakan meliputi kapasitas ozon vs IP, IP efesiensi vs IP (kW), konsentrasi ozone vs flow rate (12)

3. <u>Kecukupan dan kemutakhiran data/informasi dan metodologi:</u>
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4. <u>Kelengkapan unsur dan kualitas terbitan:</u>
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Catatan: Turnitin 5%

Semarang, 2 Februari 2021
Reviewer 1I

Prof. Dr. M. Cholid Djunaidi, S.Si, M.Si
NIP. 197007021996031004
Unit Kerja :FSM Universitas Diponegoro
Bidang Ilmu: Kimia Analitik

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		f. Alamat web jurnal	:	http://www.orientjchem.org/
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Komponen Yang Dinilai	Nilai Reviewer		Nilai Rata-rata
	Reviewer I	Reviewer II	
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b. Ruang lingkup dan kedalaman pembahasan (30%)	12	12	12
c. Kecukupan dan kemutahiran data/informasi dan metodologi (30%)	11	11.5	11.25
d. Kelengkapan unsur dan kualitas penerbit (30%)	12	11.5	11.75
Total = (100%)	39	39	39
Nilai untuk Pengusul : 0.4/9x39=1.73			

Semarang,

Reviewer 1

Prof. Dr. Dra. Meiny Suzery, M.S.
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Unit Kerja :FSM Universitas Diponegoro
Bidang Ilmu: Kimia Organik

Reviewer 2

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NIP. 197007021996031004
Unit Kerja :FSM Universitas Diponegoro
Bidang Ilmu: Kimia Analitik

Document details

Bulletin of Chemical Reaction Engineering & Catalysis Open Access
Volume 12, Issue 1, 2017, Pages 24-31

Evaluation of novel integrated dielectric barrier discharge plasma as ozone generator (Article) (Open Access)

Nur, M.[a,b], Susan, A.I.[a], Muhlisin, Z.[a,b], Arianto, F.[a,b], Kinandana, A.W.[a,b], Nurhasanah, I.[b], Sumariyah, S.[b], Wibawa, P.J.[c], Gunawan, G.[c], Usman, A.[d]

[a]Center for Plasma Research, Department of Physics, Faculty of Science and Mathematics, Diponegoro University, Kampus Undip Tembalang, Jl. Prof. Soedarto, Semarang, 50239, Indonesia
[b]Department of Physics, Faculty of Science and Mathematics, Diponegoro University, Kampus Undip Tembalang, Jl. Prof. Soedarto, Semarang, 50239, Indonesia
[c]Department of Chemistry, Faculty of Science and Mathematics, Diponegoro University, Kampus Undip Tembalang, Jl. Prof. Soedarto, Semarang, 50239, Indonesia

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Abstract

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This paper presents a characterization of an integrated ozone generator constructed by seven of reactors of Dielectric Barrier Discharge Plasma (DBDP). DBDP a has spiral-cylindrical configuration. Silence plasma produced ozone inside the DBDP reactor was generated by AC-HV with voltage up to 25 kV and maximum frequency of 23 kHz. As a source of ozone, dry air was pumped into the generator and controlled by valves system and a flowmeter. We found ozone concentration increased with the applied voltage, but in contrary, the concentration decreased with the flow rate of dry air. It was also found that a maximum concentration was 20 mg/L and ozone capacity of 48 g/h with an input power of 1.4 kW. Moreover, in this generator, IP efficiency of 8.13 g/kWh was obtained at input power 0.45 kW and air flow rate of 9 L/min. Therefore, be the higher ozone capacity can be produced with higher input power; however, it provided lower IP efficiency. The effect of dry air flow rate and applied voltage on ozone concentrations have been studied. At last, spiral wire copper was very corrosive done to the interaction with ozone, and it is necessary to do a research for finding the best metals as an active electrode inside of the quartz dielectric.

SciVal Topic Prominence

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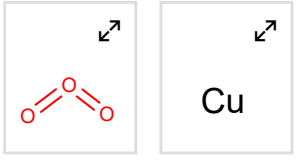

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Nur, M.; Center for Plasma Research, Department of Physics, Faculty of Science and Mathematics, Diponegoro University, Kampus Undip Tembalang, Jl. Prof. Soedarto, Semarang, Indonesia; email:m.nur@undip.ac.id

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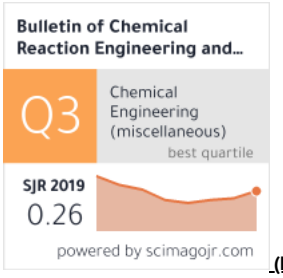

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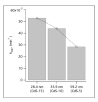

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Electrosynthesized Ni-Al Layered Double Hydroxide-Pt Nanoparticles as an Inorganic Nanocomposite and Potentate Anodic Material for Methanol Electrooxidation in Alkaline Media

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