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**KARYA ILMIAH : JURNAL ILMIAH C 7**

Judul Publikasi : Selective Transport of Fe(III) using Ionic Imprinted Polymer (IIP) Membrane Particle  
 Ilmiah (Artikel) : 4 orang  
 Jumlah Penulis : penulis pertama/utama  
 Status Pengusul :  
 Identitas Jurnal Ilmiah a. Nama Jurnal Ilmiah: AIP Conference Proceedings: 2nd International Conference on Chemical and Material Engineering 2015,  
 b. Nomor ISBN /ISSN 1551-7616  
 c. Volume, Nomor, Bulan, Tahun Januari 2016  
 d. Penerbit American Institute of Physics/Department of Chemical Engineering, Diponegoro University  
 e. DOI artikel (jika ada) AIP Conference Proceedings 1699, 060001 (2016)  
 f. Alamat web jurnal <https://doi.org/10.1063/1.4938355>  
 g. Terindeks di  
 e. Jumlah Halaman 10 (1-10)

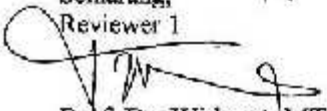
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d. Kelengkapan unsur dan kualitas penerbit (30%)	9			8,0
<b>Total = (100 %)</b>	<b>30</b>			<b>24,6</b>
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1. Kesesuaian dan kelengkapan unsur isi jurnal:	: Nilai jurnal meliputi Abstract, introduction, Experimental, Results and Discussion, Conclusion serta Reference. Artikel yang ditulis sudah meliputi akan hal tersebut. Kelengkapan jurnal terdiri dari ketua editor dan anggota Reviewer, daftar isi, petunjuk penulisan juga ada. (skor= 2,6 ).
2. Ruang lingkup dan kedalaman pembahasan:	: Fokus dan Scope dari prosiding ini sangat general yaitu physical sciences, including physics, math, chemistry, materials science and engineering. Artikel berisi tentang material membran dan uji dalam proses adsorpsi logam berat Fe. Tema ini masih termasuk dalam scope jurnal. Pembahasan sebagian masih berbentuk diskusi Metode yang digunakan dalam pemulhan juga cukup baik demikian juga eksperimen. Dalam pembahasan masih berisi case kerja bahkan ada teori juga. (skor= 6,5 ).
3. Kecukupan dan kemutakhiran data/informasi dan metodologi	: Literatur yang digunakan terbaru adalah tahun 2015, walaupun masih dari Ybs. Untuk poly eugene masih berasal dari penulis sendiri. (skor= 7,5 ).
4. Kelengkapan unsur dan kualitas terbitan:	: Penerbit dari AIP Publishing USA Editor internasional dari dua negara yaitu Malaysia dan Indonesia. Kualitas terbitan secara online dan cetak dan sudah terindeks di scopus (skor= 8.0 ).

Bidang ilmu/Unit kerja : Teknik Kimia/ Universitas  
Diponegoro

Semarang, 4/6/18  
Reviewer 1  
  
Prof. Dr. Widayat, MT  
NIP. 19720906 199803 1001

**LEMBAR  
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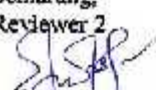
Komponen Yang Dinilai	Nilai Maksimal Jurnal Ilmiah			Nilai Akhir yang diperoleh
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	(30)			
a. Kelengkapan unsur isi artikel (10%)	3			3
b. Ruang lingkup dan kedalaman pembahasan (30%)	9			7,5
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	9			7
d. Kelengkapan unsur dan kualitas penerbit (30%)	9			7,5
<b>Total = (100 %)</b>	<b>30</b>			<b>25</b>
<b>Nilai Pengusul =</b>	<b>0,6 × 25</b>			<b>15</b>

**Catatan Penilaian artikel oleh Reviewer :**

1. Kesesuaian dan kelengkapan unsur isi jurnal:	: Isi dari artikel meliputi title, abstract, Introduction, experimental, results and discussion, conclusion, acknowledgements dan References. (skor = 3).
2. Ruang lingkup dan kedalaman pembahasan:	: Artikel ini menyajikan hasil penelitian mengenai sintesis polimer ionik diterapkan dim proses pemisahan ion logam berat Fe(3+) sehingga masih dalam lingkup jurnal (environmental chemistry). Hasil penelitian dibahas kurang mendalam, tdk ada perbandingan dg penelitian terdahulu dan tdk didukung dg pustaka yang baik. Walaupun dalam naskah bab pembahasan terdapat 5 sitasi (41 %) dari 12 daftar pustaka, namun penulis cenderung mengulangi menjelaskan prosedur percobaan (skor = 7,5).
3. Kecukupan dan kemutakhiran data/informasi dan metodologi	: Pustaka yang digunakan pada semuanya mutakhir (banyak 3 dari 12 pustaka yg cukup tua, 25%). Namun, pada metodologi justru tidak mendasarkan pada pustaka sama sekali (skor = 7).
4. Kelengkapan unsur dan kualitas terbitan:	: Prosiding diterbitkan oleh dari AIP Publishing USA dg Editor Internasional dari dua negara yaitu Malaysia dan Indonesia. Penulis artikel dalam prosiding ini sebagian besar dari Indonesia. Walaupun terindeks Scopus, kualitas terbitan secara online dan cetak dim hal format Tabel dan Figure sering tidak konsisten. Penulisan Figure atau Fig. dim teks tdk konsisten. Penulisan Daftar Pustaka tidak konsisten masing-masing penulis. (skor = 7,5).

Bidang Ilmu/Unit kerja : Teknik Kimia/  
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Semarang,  
Reviewer 2

  
Prof. Dr. Andri Cahyo Kumoro, ST, MT.  
NIP. 19740521 199802 1 001



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AIP Conference Proceedings

Volume 1699, 29 December 2015, Article number 060001

2nd International Conference of Chemical and Material Engineering: Green Technology for Sustainable Chemical Products and Processes, ICCME 2015; Semarang; Indonesia; 29 September 2015 through 30 September 2015; Code 117825

## Selective transport of Fe(III) using ionic imprinted polymer (IIP) membrane particle (Conference Paper)

Djunaidi, M.C.<sup>a,b</sup> ✉️, Jumina<sup>b</sup>, Siswanta, D.<sup>b</sup>, Ulbricht, M.<sup>c</sup> 👤

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<sup>a</sup>Department of Chemistry, Faculty of Science and Mathematics, Diponegoro University, Indonesia

<sup>b</sup>Department of Chemistry, Faculty of Mathematics and Natural Sciences, Gadjah Mada University, Indonesia

<sup>c</sup>Lehrstuhl für Technische Chemie II, Fakultät für Chemie, Universität Duisburg-Essen, Essen, 45117, Germany

### Abstract

The membrane particles was prepared from polyvinyl alcohol (PVA) and polymer IIP with weight ratios of 1: 2 and 1: 1 using different adsorbent templates and casting thickness. The permeability of membrane towards Fe(III) and also mechanism of transport were studied. The selectivity of the membrane for Fe(III) was studied by performing adsorption experiments also with Cr(III) separately. In this study, the preparation of Ionic Imprinted Polymer (IIP) membrane particles for selective transport of Fe (III) had been done using polyeugenol as functional polymer. Polyeugenol was then imprinted with Fe (III) and then crosslinked with PEGDE under alkaline condition to produce polyeugenol-Fe-PEGDE polymer aggregates. The aggregates was then crushed and sieved using mesh size of 80 and the powder was then used to prepare the membrane particles by mixing it with PVA (Mr 125,000) solution in 1-Methyl-2-pyrrolidone (NMP) solvent. The membrane was obtained after casting at a speed of 25?m/s and soaking in NaOH solution overnight. The membrane sheet was then cut and Fe(III) was removed by acid to produce IIP membrane particles. Analysis of the membrane and its constituent was done by XRD, SEM and size selectivity test. Experimental results showed the transport of Fe(III) was faster with the decrease of membrane thickness, while the higher concentration of template ion correlates with higher Fe(III) being transported. However, the transport of Fe(III) was slower for higher concentration of PVA in the membrane. IImparticles works through retarded permeation mechanism, where Fe(III) was bind to the active side of IIP. The active side of IIP membrane was dominated by the -OH groups. The selectivity of all IIP membranes was confirmed as they were all unable to transport Cr (III), while NIP (Non-imprinted Polymer) membrane was able transport Cr (III). © 2015 AIP Publishing LLC.

### SciVal Topic Prominence ⓘ

Topic: Adsorption | Ions | Ion-imprinted polymer

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### Author keywords

:IIP Membrane particle functional polymer polyeugenol selective transport of Fe.

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**Publisher**

**Publication type** Conferences and Proceedings

**ISSN** 00001984, 00002005, 00001983

**Coverage** 1983-1984, 2005-ongoing

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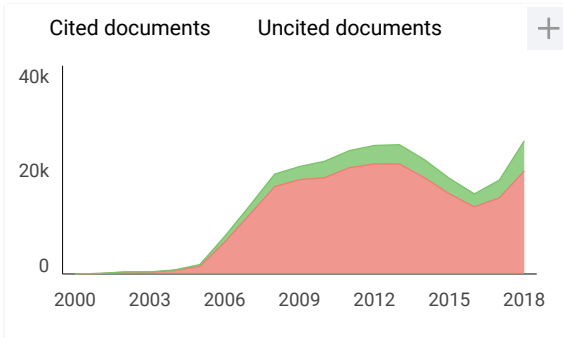
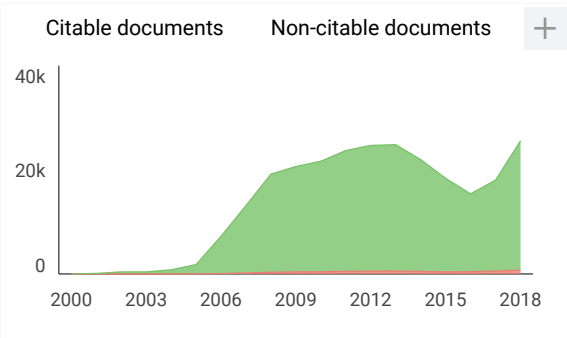
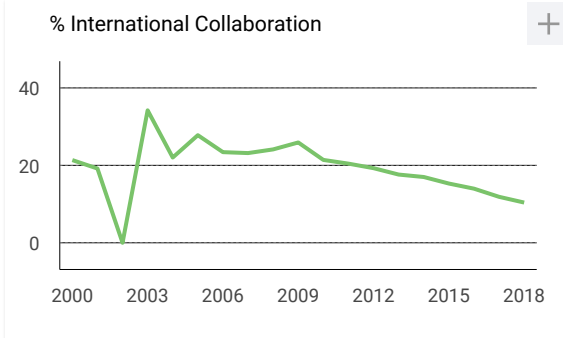
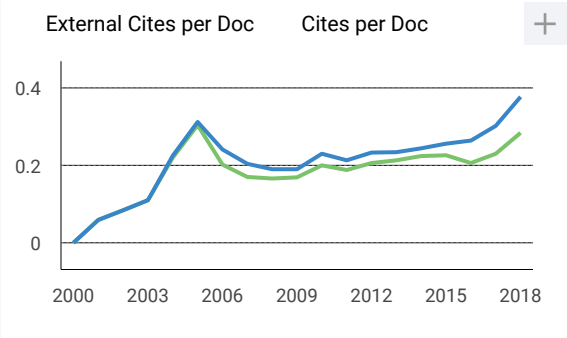
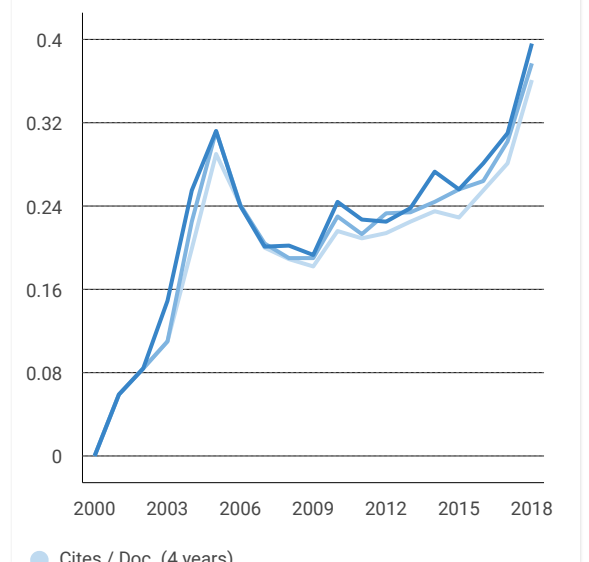
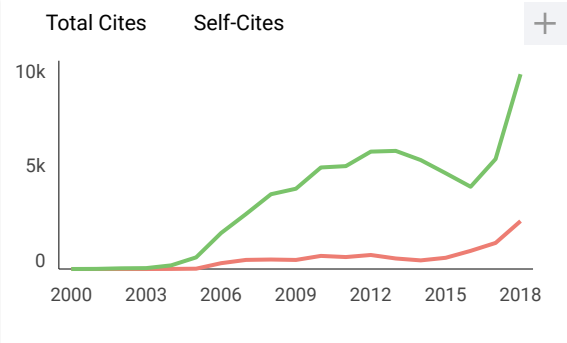
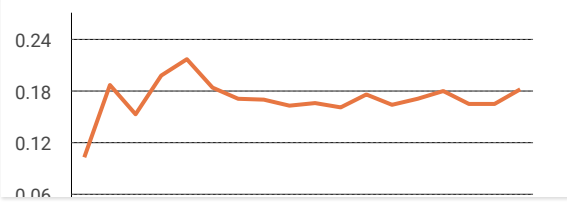
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A **ali mohammed** 1 month ago

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**Melanie Ortiz** 1 month ago

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Dear Ali,  
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A **Akshya Sekar** 2 months ago

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Thanks

reply



**Melanie Ortiz** 2 months ago

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D **Duha Ahmed** 4 months ago

dear Admin

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with my best wishes

Miss Duha

reply



**Melanie Ortiz** 4 months ago

SCImago Team

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M **mohammed** 4 months ago

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reply



**Melanie Ortiz** 4 months ago

SCImago Team

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<https://www.scopus.com/sourceid/26916>

Best Regards, SCImago Team

T **Thanh Quang Khai Lam** 6 months ago

Dear Elena Corera!  
Can you tell me "Lecture notes in civil engineering" in Q4?  
i don't see in Scimago.  
Thank you

reply



**Melanie Ortiz** 6 months ago

SCImago Team

Dear Thanh,  
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SCImago Team

T **Teo Jin Chuan** 6 months ago

Dear Admin,

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Regards

reply



**Melanie Ortiz** 6 months ago

SCImago Team

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H **Hassan Abdulhadi** 2 years ago

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reply

H **Hassan Abdulhadi** 1 year ago

I ASKE ABOUT AIP CONFERENCE PROCEEDINGS WITHIN SCOPUS OR THOMSON REUTERS  
WITH BEST WISHES



**Elena Corera** 2 years ago

SCImago Team

Dear Hassan,

thank you for your request, all the journals included in SJR are indexed in Scopus. Elsevier

/ Scopus is our data provider.

Best Regards,  
SCImago Team

T **Tarik** 2 years ago

Dear. Elena  
Hi

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Best regards

TArIk AlOmran

reply



**Elena Corera** 2 years ago

SCImago Team

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D **Dunia** 2 years ago

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**Elena Corera** 2 years ago

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B **Budi Adiperdana** 2 years ago

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Best regards,

Budi

reply



**Elena Corera** 2 years ago

SCImago Team

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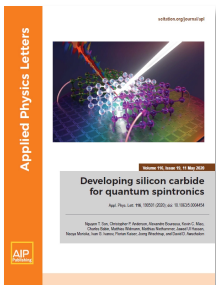
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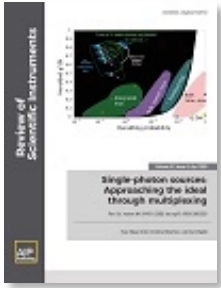


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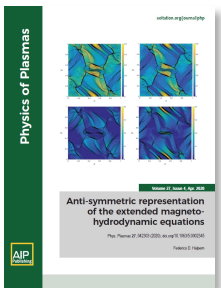
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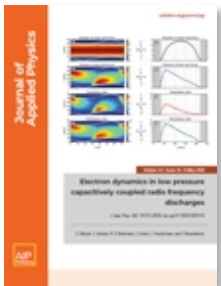
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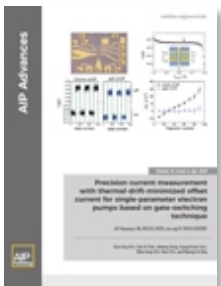
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Conference date: 29–30 September 2015

Location: Semarang, Indonesia

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Editors: , Hadi Nur, Arief Budiman, Ferry Iskandar and Suryadi Ismadji

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