

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

Judul Jurnal Ilmiah (Artikel) : Superhydrophobic Coating Derived From Geothermal Silica To Enhance Material Durability Of Bamboo Using Hexadimethylsilazane (HMDS) and Trimethylchlorosilane (TCMS)

Jumlah Penulis : **S. Silviana**, Adi Darmawan, Febio Dalanta, Agus Subagio, Ferry Hermawan, dan Hansel Milen Santoso

Status Pengusul : penulis ke-1

Identitas Jurnal Ilmiah :

- a. Nama Jurnal : Materials
- b. Nomor ISSN : 1996-1944
- c. Vol, No., Bln Thn : 14, 530, Februari 2021
- d. Penerbit : MDPI AG
- e. DOI artikel (jika ada) : <https://doi.org/10.3390/ma14030530>
- f. Alamat web jurnal : <https://www.mdpi.com/journal/materials>
- Alamat Artikel : <https://www.mdpi.com/1996-1944/14/3/530/htm>
- g. Terindex : Scopus, Q2 (SJR : 0.6 (2021))

Kategori Publikasi Jurnal Ilmiah : ☒ Jurnal Ilmiah Internasional
 (beri ✓ pada kategori yang tepat) ☐ Jurnal Ilmiah Nasional Terakreditasi
☐ Jurnal Ilmiah Nasional Tidak Terakreditasi

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	Reviewer I	Reviewer II	
a. Kelengkapan unsur isi jurnal (10%)	4,0	4,0	4,0
b. Ruang lingkup dan kedalaman pembahasan (30%)	11,5	11,5	11,5
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	11,5	11,5	11,5
d. Kelengkapan unsur dan kualitas terbitan/jurnal (30%)	11,5	11,0	11,25
Total = (100%)	38,5	38,0	38,25
Nilai Pengusul = (60% x 38,25) =			22,95

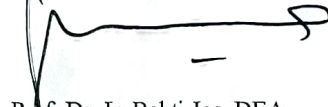
Semarang, 27 Juni 2022

Reviewer 2



Prof. Dr. Moh. Djaeni, S.T., M.Eng.
 NIP. 197102071995121001
 Unit Kerja : Teknik Kimia FT UNDIP

Reviewer 1



Prof. Dr. Ir. Bakti Jos, DEA
 NIP. 196005011986031003
 Unit Kerja : Teknik Kimia FT UNDIP

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c. Edisi (bulan/tahun) : Februari/2021
d. Penerbit : MDPI AG
e. Jumlah Halaman : 20
f. Alamat Web Jurnal : <https://www.mdpi.com/journal/materials>
g. Artikel : <https://www.mdpi.com/1996-1944/14/3/530/htm>

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☐ Jurnal Ilmiah Nasional Terindeks DOAJ dll.

I. Hasil Penilaian Peer Review :

Komponen Yang Dinilai	Nilai Maksimal Jurnal Ilmiah (isikan di kolom yang sesuai)					Nilai Akhir Yang Diperoleh
	Internasional Bereputasi	Internasional	Nasional Terakreditasi	Nasional Tidak Terakreditasi	Nasional Terindeks DOAJ dll.	
Kelengkapan dan Kesesuaian unsur isi jurnal (10%)	4					4,0
Ruang lingkup dan kedalaman pembahasan (30%)	12					11,5
Kecukupan dan kemutakhiran data/ informasi dan metodologi (30%)	12					11,5
Kelengkapan unsur dan kualitas penerbit (30%)	12					11,5
Total = (100%)	40					38,5
Nilai Pengusul (kontribusi pengusul sebagai penulis pertama) = (60% x 38,5)						23,1
KOMENTAR/ULASAN PEER REVIEW						
●Kelengkapan dan Kesesuaian Unsur Kelengkapan isi artikel memenuhi kaidah penulisan di jurnal terkait dengan struktur penulisan baik, yaitu title, authors, abstract, introduction, materials and methods, results and discussions, conclusions, dan references. Adapun isi dari artikel sesuai dengan kompetensi penulis di bidang teknik kimia. ●Ruang Lingkup dan Kedalaman Pembahasan Ruang lingkup artikel memenuhi isi dari jurnal secara keseluruhan. Penggunaan referensi relatif komprehensif dalam membahas <i>coating</i> superhidrofobik dari silika geothermal untuk meningkatkan daya tahan bahan bambu menggunakan HMDS dan TCMS. Potensi inovasi artikel ini membahas pemanfaatan limbah padatan dari aktivitas geothermal plant. Salah satunya sebagai pelapis material bambu. Referensi yang terlibat dalam pembahasan berjumlah 18. Total referensi yang digunakan 31 buah. Namun, penelitian ini masih perlu dikaji aplikasi lebih jauh pada material selain bambu untuk meningkatkan fleksibilitas produk. ●Kecukupan & Kemutakhiran Data & Metodologi Penggunaan metode pada penelitian ini masih perlu dibandingkan dengan metode yang telah ada atau mengacu penelitian lain sebelumnya. Data yang disajikan tergolong baik karena hanya 5 sitasi dari 31 (16,12%) yang digunakan telah lebih dari 10 tahun. Selain itu hasil turnitin similarity index dari penerbit jurnal melakukan analisa turnitin menghasilkan 13%. ●Kelengkapan Unsur & Kualitas Penerbit Reputasi penerbit termasuk jurnal internasional bereputasi terindeks Scopus. Faktor dampaknya 3,601 (2022), SJR: 0,6 (2021) dan SJR: 0,68 (2020). Penerbit masuk kategori Q2 (https://www.scimagojr.com/journalsearch.php?q=76627&tip=sid&clean=0).						

Semarang, 23 Mei 2022

Penilai 1

Prof. Dr. Ir. Bakti Jos, DEA
NIP. 196005011986031003

Unit Kerja: Universitas Diponegoro
Bidang Ilmu: Teknik Kimia
Jabatan/Pangkat: Guru Besar

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Kelengkapan dan Kesesuaian unsur isi jurnal (10%)	4					4,0
Ruang lingkup dan kedalaman pembahasan (30%)	12					11,5
Kecukupan dan kemutakhiran data/ informasi dan metodologi (30%)	12					11,5
Kelengkapan unsur dan kualitas penerbit (30%)	12					11,0
Total = (100%)	40					38,0
Nilai Pengusul (kontribusi pengusul sebagai penulis pertama) = (60% x 38,0)						22,8

KOMENTAR/ULASAN PEER REVIEW

●**Kelengkapan dan Kesesuaian Unsur**

Artikel ini sudah sesuai dengan kaidah penulisan jurnal material yaitu title, authorships, abstract, introduction, materials and methods, results and discussions, conclusions, dan references. Artikel ini sudah sesuai kemampuan penulis dalam bidang teknik kimia.

●**Ruang Lingkup dan Kedalaman Pembahasan**

Artikel ini membahas mengenai *coating* superhidrofobik dari silika geotermal untuk meningkatkan daya tahan bahan bambu menggunakan HMDS dan TCMS secara komprehensif. Pembahasan artikel ini menggunakan 18 referensi dari total 31 referensi dengan baik. produk pelapis yang dihasilkan cukup reliable sebagai pelapis hidrofobik pada bambu. Akan tetapi penelitian ini masih perlu mengkaji aplikasi lebih jauh pada material selain bambu.

●**Kecukupan & Kemutakhiran Data & Metodologi**

Metodologi yang digunakan masih perlu dibandingkan dengan proses yang telah ada meskipun mengacu penelitian lain sebelumnya. Adapun kemutakhiran data menunjukkan tergolong baik karena hanya 5 sitasi dari 31 (16,12%) yang digunakan telah lebih dari 10 tahun. Selain itu hasil turnitin similarity index sebesar 13%.

●**Kelengkapan Unsur & Kualitas Penerbit**

Penerbit termasuk jurnal internasional bereputasi terindeks Scopus. Impact factor 3,601 (2022), SJR: 0,6 (2021) dan SJR: 0,68 (2020). Penerbit masuk kategori Q2 (<https://www.scimagojr.com/journalsearch.php?q=76627&tip=sid&clean=0>).

Semarang, 23 Mei 2022

Penilai 2

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Bidang Ilmu: Teknik Kimia
Jabatan/Pangkat: Guru Besar



Materials

COUNTRY

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Materials Science

Materials Science
(miscellaneous)

Physics and Astronomy

Condensed Matter

Physics

PUBLISHER

MDPI AG

H-INDEX

111

PUBLICATION TYPE

Journals

ISSN

19961944

COVERAGE

2009-2020

INFORMATION

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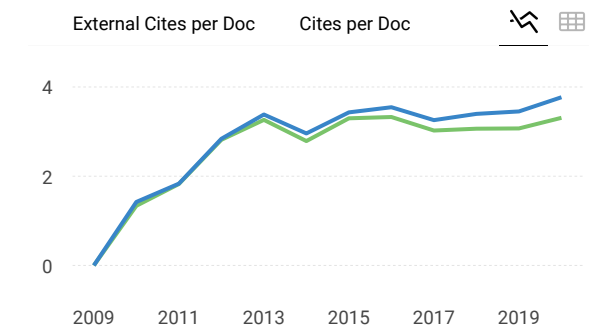
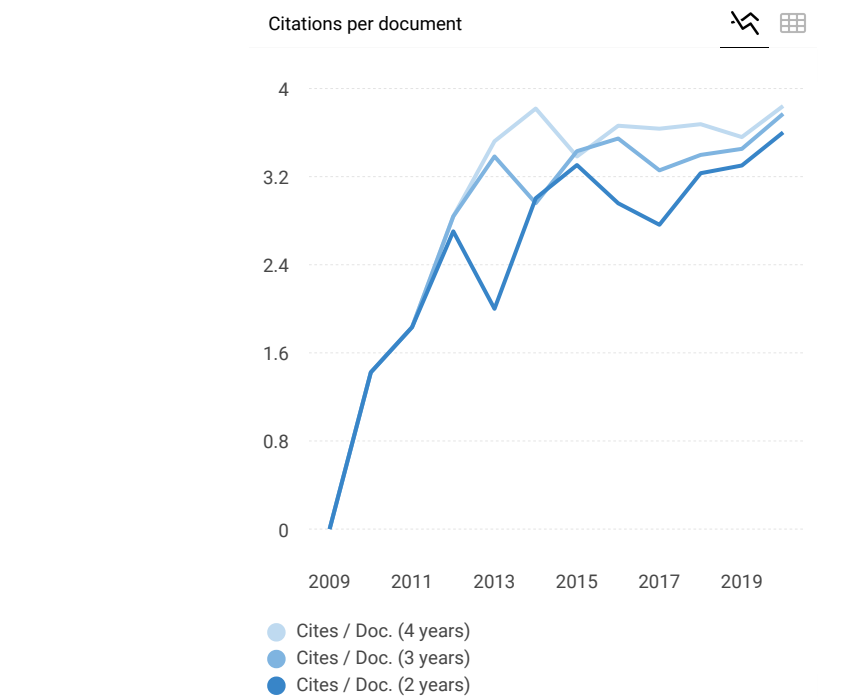
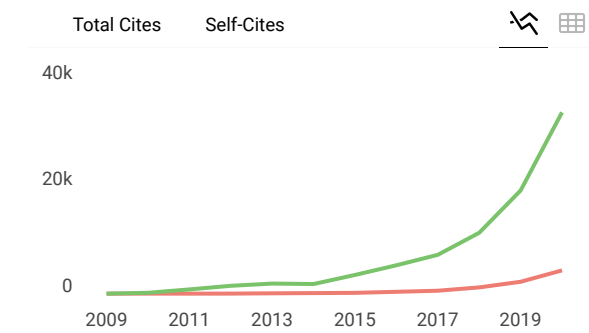
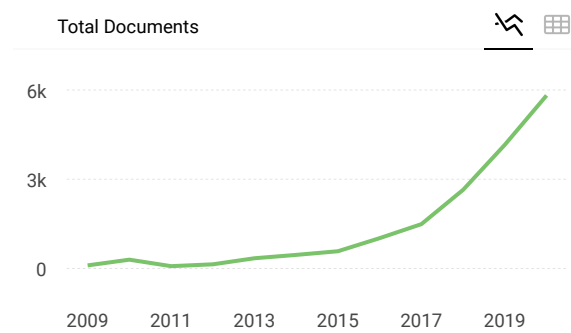
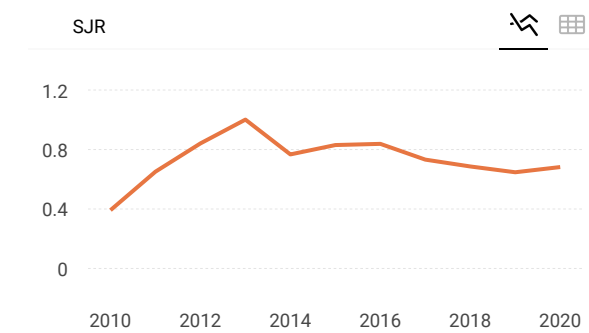
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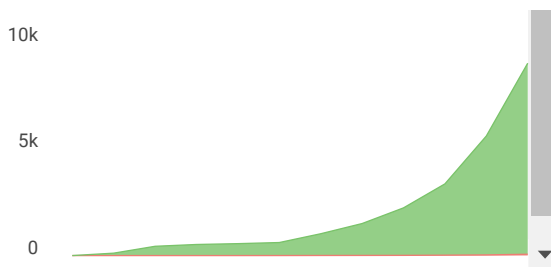
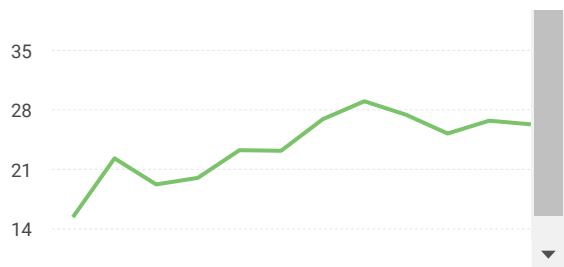
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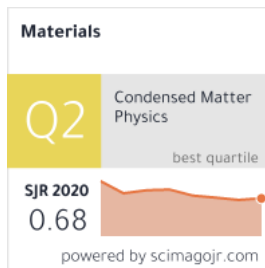
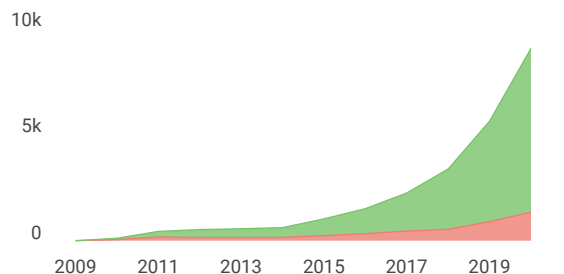
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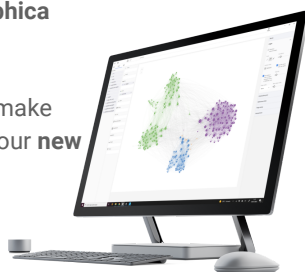
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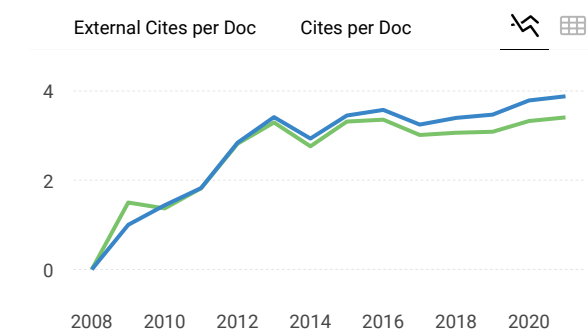
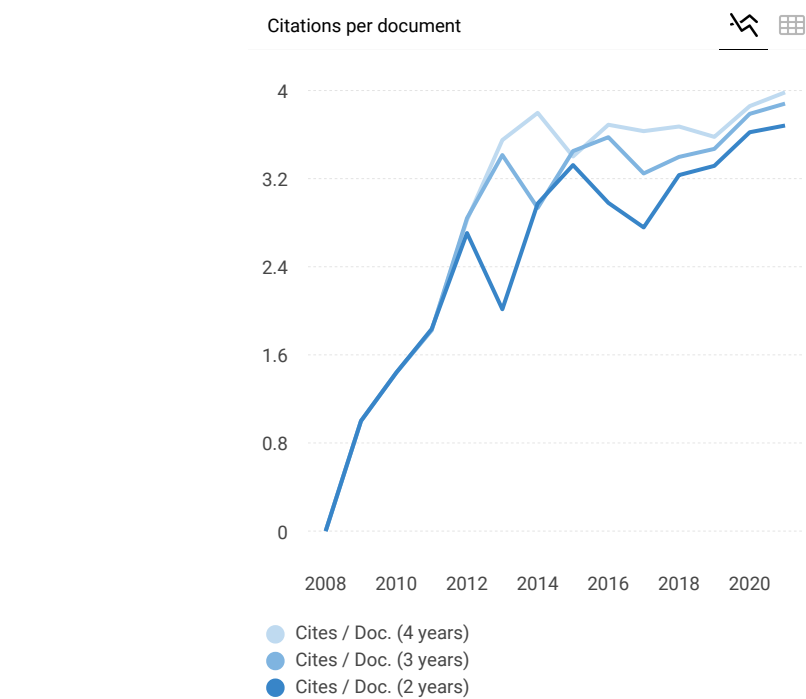
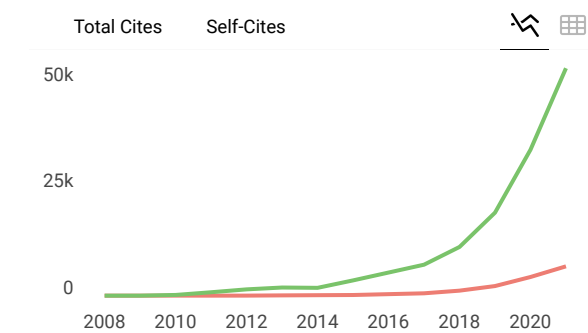
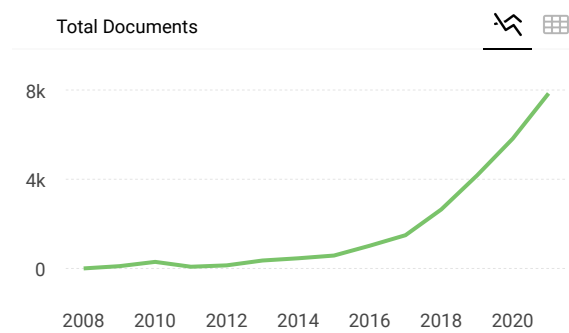
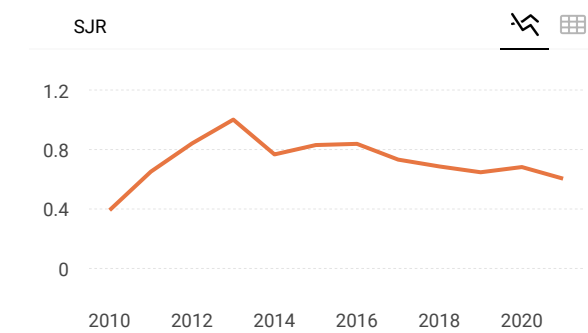
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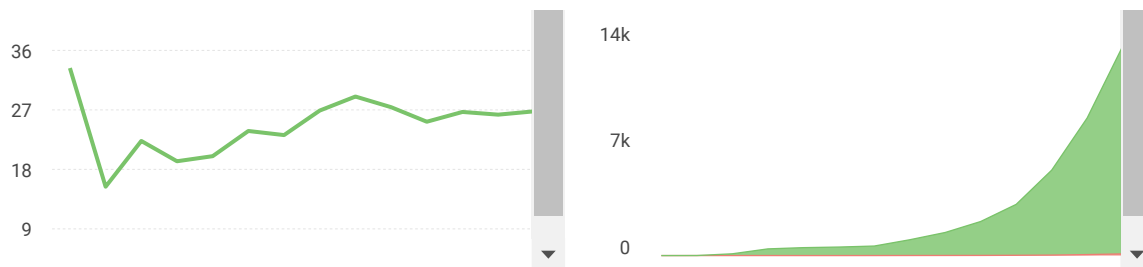
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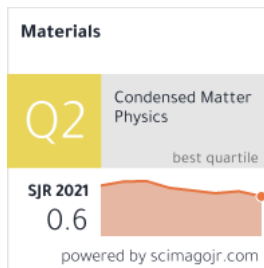
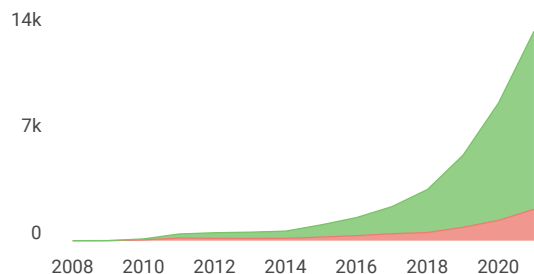
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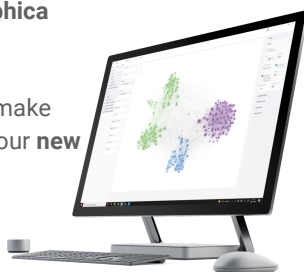
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