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

Judul Jurnal Ilmiah (Artikel)	:	Analysis of Plasma-activated Medium (PAM) in aqueous solution by an Atmospheric Pressure Plasma Jet (APPJ)		
Nama/ Jumlah Penulis	:	3 Orang		
Status Pengusul	:	~~Penulis pertama~~/ Penulis ke-2/ ~~Penulis Korespondesi **~~		
Identitas Prosiding	:	a. Nama Prosiding	:	MATEC Web of Conferences, (AASEC 2018)
		b. Nomor ISSN	:	Online ISSN: 1742-6596, Print ISSN: 1742-6588
		c. Vol, No., Bln Thn	:	Volume : 197, Article Number : 02013, page(s) : 7, 12 September 2018
		d. Penerbit	:	EDP Sciences
		e. DOI artikel (jika ada)	:	https://doi.org/10.1051/matecconf/201819702013
		f. Alamat web prosiding	:	https://www.matec-conferences.org/
		Alamat Artikel	:	https://www.matec-conferences.org/articles/matecconf/abs/2018/56/matecconf_aasec2018_02013/matecconf_aasec2018_02013.html
		g. Terindex	:	CAS, DOAJ, EBSCO, Google Scholar, IET INSPEC H-index : 30, Impact factor : 0.547 (2021-2020)

Kategori Publikasi Jurnal Ilmiah (beri ✓pada kategori yang tepat) :
[√] *Prosiding* Forum Ilmiah Internasional terindeks
[ ] *Prosiding* Forum Ilmiah Nasional

Hasil Penilaian *Peer Review* :

Komponen Yang Dinilai	Nilai Reviewer		Nilai Rata-rata
	Reviewer I	Reviewer II	
a. Kelengkapan unsur isi jurnal (10%)	2,50	3	2,75
b. Ruang lingkup dan kedalaman pembahasan (30%)	7,00	9	8
c. Kecukupan dan kemutahiran data/informasi dan metodologi (30%)	6,50	8,5	7,5
d. Kelengkapan unsur dan kualitas penerbit (30%)	7,00	8	7,5
Total = (100%)	**23,00**	**28,5**	**25,75**
Nilai untuk Pengusul : 40% x 1/2 x 25,75 = 5,15			

Semarang, 10 Februari 2023

Reviewer 1

Prof. Dr. Kusworo Adi, S.Si., M.T.
NIP. 197203171998021001
Unit Kerja : Fisika/FSM/UNDIP
Bidang Ilmu: Fisika Instrumentasi

Reviewer 2

Prof. Dr. Agus Subagio, S.Si., M.Si.
NIP. 19710813 1995121001
Unit Kerja : Fisika/FSM/UNDIP
Bidang Ilmu: Fisika Material

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

Judul Prosiding Ilmiah (Artikel)	:	Analysis of Plasma-activated Medium (PAM) in aqueous solution by an Atmospheric Pressure Plasma Jet (APPJ)		
Nama/ Jumlah Penulis	:	3 Orang		
Status Pengusul	:	~~Penulis pertama~~/ Penulis ke-2/ ~~Penulis Korespondesi **~~		
Identitas Prosiding	:	a. Nama Prosiding	:	MATEC Web of Conferences, (AASEC 2018)
		b. Nomor ISSN	:	Online ISSN: 1742-6596, Print ISSN: 1742-6588
		c. Vol, No., Bln Thn	:	Volume : 197, Article Number : 02013, page(s) : 7, 12 September 2018
		d. Penerbit	:	EDP Sciences
		e. DOI artikel (jika ada)	:	https://doi.org/10.1051/matecconf/201819702013
		f. Alamat web prosiding	:	https://www.matec-conferences.org/
		Alamat Artikel	:	https://www.matec-conferences.org/articles/matecconf/abs/2018/56/matecconf_aasec2018_02013/matecconf_aasec2018_02013.html
		g. Terindex	:	CAS, DOAJ, EBSCO, Google Scholar, IET INSPEC H-index : 30, Impact factor : 0.547 (2021-2020)

Kategori Publikasi Karya Ilmiah (beri ✓pada kategori yang tepat) : [√] *Prosiding* Forum Ilmiah Internasional terindeks
[ ] *Prosiding* Forum Ilmiah Nasional

Hasil Penilaian *Peer Review* :

Komponen Yang Dinilai	Nilai Maksimal Prosiding		Nilai Akhir Yang Diperoleh
	Internasional [√]	Nasional [ ]	
a. Kelengkapan unsur isi prosiding (10%)	2,5		2,50
b. Ruang lingkup dan kedalaman pembahasan (30%)	7,5		7,00
c. Kecukupan dan kemutahiran data/informasi dan metodologi (30%)	7,5		6,50
d. Kelengkapan unsur dan kualitas terbitan/prosiding (30%)	7,5		7,00
Total = (100%)	**25**		**23,00**
Nilai Pengusul = 40% x 1/2 x 23,00= 4,60			

Catatan Penilaian artikel oleh Reviewer :

1. **Kelengkapan unsur isi prosiding:**
   Penulisan artikel sudah baik dan mengikuti standard penulisan artikel di prosiding, yaitu Abstrak, Introduction, Method, Result and Discussion, Conclusions, and References. Tidak ada Acknowledgement. Substansi artikel sesuai bidang ilmu pengusul
2. **Ruang lingkup dan kedalaman pembahasan:**
   Lingkup bahasan dari artikel ini adalah bidang fisika. Pembahasan cukup baik yaitu mengetahui jumlah spesi reaktif dalam medium teraktivasi plasma. Sebuah jet plasma tekanan atmosfer (APPJ) dihasilkan dengan kolom pelepasan penghalang dielektrik (DBD) oleh AC tegangan tinggi. Kedalaman pembahasan baik.
3. **Kecukupan dan kemutakhiran data/informasi dan metodologi:**
   Informasi yang disajikan cukup baru dan hasil yang diperoleh memuat substansi orisinil dengan aspek aplikasi yang penting. Sumber gagasan penulis untuk artikel ini kurang komprehensif. Dari 34 referensi yang dipakai tidak terdapat paper yang lebih dari 10 tahun terakhir (out of date). Metodologinya dan penulisannya kurang terstruktur.
4. **Kelengkapan unsur dan kualitas terbitan:**
   Artikel dimuat di prosiding MATEC Web of Conferences, (AASEC 2018). Diterbitkan pada Volume : 197, Article Number : 02013, page(s) : 7, 12 September 2018 diterbitkan EDP Sciences coverage discontinued in Scopus

Semarang, 10 Februari 2023
Reviewer 1

Prof. Dr. Kusworo Adi, S.Si., M.T.
NIP. 197203171998021001
Unit Kerja : Fisika/FSM/UNDIP
Bidang Ilmu: Fisika Instrumentasi

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

Judul Jurnal Ilmiah (Artikel)	:	Analysis of Plasma-activated Medium (PAM) in aqueous solution by an Atmospheric Pressure Plasma Jet (APPJ)		
Nama/ Jumlah Penulis	:	3 Orang		
Status Pengusul	:	~~Penulis pertama~~/ Penulis ke-2/ ~~Penulis Korespondesi **~~		
Identitas Prosiding	:	a. Nama Prosiding	:	MATEC Web of Conferences, (AASEC 2018)
		b. Nomor ISSN	:	Online ISSN: 1742-6596, Print ISSN: 1742-6588
		c. Vol, No., Bln Thn	:	Volume : 197, Article Number : 02013, page(s) : 7, 12 September 2018
		d. Penerbit	:	EDP Sciences
		e. DOI artikel (jika ada)	:	https://doi.org/10.1051/matecconf/201819702013
		f. Alamat web prosiding	:	https://www.matec-conferences.org/
		Alamat Artikel	:	https://www.matec-conferences.org/articles/matecconf/abs/2018/56/matecconf_aasec2018_02013/matecconf_aasec2018_02013.html
		g. Terindex	:	CAS, DOAJ, EBSCO, Google Scholar, IET INSPEC H-index : 30, Impact factor : 0.547 (2021-2020)

Kategori Publikasi Jurnal Ilmiah (beri ✓pada kategori yang tepat) : [√] *Prosiding* Forum Ilmiah Internasional terindeks
[ ] *Prosiding* Forum Ilmiah Nasional

Hasil Penilaian *Peer Review* :

Komponen Yang Dinilai	Nilai Maksimal Prosiding		Nilai Akhir Yang Diperoleh
	Internasional [√]	Nasional [ ]	
a. Kelengkapan unsur isi jurnal (10%)	3		3
b. Ruang lingkup dan kedalaman pembahasan (30%)	9		9
c. Kecukupan dan kemutahiran data/informasi dan metodologi (30%)	9		8,5
d. Kelengkapan unsur dan kualitas terbitan/prosiding (30%)	9		8
Total = (100%)	**30**		**28,5**
Nilai Pengusul = 40% x 1/2 x 28,5 = 5,7 (Max 30)			

Catatan Penilaian artikel oleh Reviewer :

1. **<u>Kesesuaian dan kelengkapan unsur isi jurnal:</u>**
   Tulisan sudah lengkap yang terdiri dari title, abstract, introduction, method, result and discussion, conclusion, references. Kebaruan juga telah dijelaskan. Artikel telah sesuai dengan bidang ilmu pengusul/anggota penulis.
2. **<u>Ruang lingkup dan kedalaman pembahasan:</u>**
   Pembahasan artikel terkait kajian analisis PAM di dalam air dengan APPJ secara mendalam dengan parameter waktu paparan dan jarak reaktor untuk mendapatkan nilai efisiensi dari parameter yang diujikan. Artikel ini juga dilengkapi dengan referensi pada bagian pembahasan untuk menguatkan diskusi.
3. **<u>Kecukupan dan kemutakhiran data/informasi dan metodologi:</u>**
   Metode standar serta referensi yang digunakan cukup baik. Makalah didukung oleh 34 daftar Pustaka.
4. **<u>Kelengkapan unsur dan kualitas terbitan:</u>**
   Prosiding untuk artikel yang diterbitkan telah terindex dan memiliki kualitas internasional. Kelengkapan dan kualitas cukup baik terdapat tabel data dan gambar untuk memudahkan penjelasan

Semarang, 10 Februari 2023
Reviewer 2

Prof. Dr. Agus Subagio, S.Si., M.Si.
NIP. 19710813 1995121001
Unit Kerja : Fisika/FSM/UNDIP
Bidang Ilmu:Fisika Material

MATEC Web of Conferences • *Open Access* • Volume 197 • 12 September 2018 • Article number 02013 • 3rd Annual Applied Science and Engineering Conference, AASEC 2018 • Bandung • 18 April 2018 • Code 139765

Document type
Conference Paper • *Gold Open Access* • *Green Open Access*

Source type
Conference Proceedings

ISSN
2261236X

DOI
10.1051/matecconf/201819702013

View more

Analysis of Plasma-activated Medium (PAM) in aqueous solution by an Atmospheric Pressure Plasma Jet (APPJ)

Kinandana, Andi Wibowo[a, b] ; Sumariyah, Sumariyah[a, b]; Nur, Muhammad[a, b]
Save all to author list

[a] Diponegoro University, Physics Department, Faculty of Science and Mathematics, Semarang, Indonesia
[b] Diponegoro University, Center for Plasma Research, Faculty of Science and Mathematics, Semarang, Indonesia

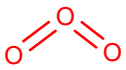
Abstract

Plasma-activated medium (PAM) has been produced by exposing a liquid media to Argon plasma jet. The jet plasma exposure to liquid media has produced reactive Oxygen species (ROS) in liquid phase. This study aims to determine the number of reactive species in plasma-activated medium. An atmospheric pressure plasma jet (APPJ) was generated with a dielectric barrier discharge (DBD) column by AC high voltage. Some parameters varied including exposure time; i.e. 5, 10, 15, 20, 25, and 30 min; and the distance between reactor and active media; i.e. 1, 2 and 3 cm. Some analysis conducted including variation of exposure times, the distances of reactor to PAM which affect produced concentration, and the reactive species composition in plasma-activated medium. In addition, temperature characteristics, pH levels, dissolved ozone and dissolved hydrogen peroxide concentrations were also observed in this study. The results showed that increased exposure time

resulted in decreased pH, increased temperature and increased concentrations of ozone and hydrogen peroxide. The maximum reactive species composition was obtained at the distance between reactor and plasma-activated medium of 2 cm. Maximum reactive species composition obtained in this study has temperature of 29-30 Celsius degrees; pH 3.5; dissolved ozone 2.97 ppm; and Hydrogen Peroxide 215 ppm.

Reaxys Chemistry database information

Substances View all substances (1)



View details

Powered by Reaxys

Indexed keywords

SciVal Topics

Metrics

References (34) View in search results format >

All

Export Print E-mail Save to PDF Create bibliography

1 Nasruddin, Nakajima, Y., Mukai, K., Rahayu, H.S.E., Nur, M., Ishijima, T., Enomoto, H., (...), Nakatani, T.

Cold plasma on full-thickness cutaneous wound accelerates healing through promoting inflammation, re-epithelialization and wound contraction (Open Access)

(2014) *Clinical Plasma Medicine*, 2 (1), pp. 28-35. Cited 78 times.
http://www.journals.elsevier.com.proxy.undip.ac.id:2048/clinical-plasma-medicine/
doi: 10.1016/j.cpme.2014.01.001

View at Publisher

2 Nasruddin, Nakajima, Y., Mukai, K., Komatsu, E., Rahayu, H.S.E., Nur, M., Ishijima, T., (...), Nakatani, T.

A Simple Technique to Improve Contractile Effect of Cold Plasma Jet on Acute Mouse Wound by Dropping Water (Open Access)

(2015) *Plasma Processes and Polymers*, 12 (10), pp. 1128-1138. Cited 21 times.
http://onlinelibrary.wiley.com/journal/10.1002/(ISSN)1612-8869
doi: 10.1002/ppap.201400236

View at Publisher

3 von Woedtke, T., Reuter, S., Masur, K., Weltmann, K.-D.

Plasmas for medicine

(2013) *Physics Reports*, 530 (4), pp. 291-320. Cited 642 times.
http://www.elsevier.com.proxy.undip.ac.id:2048/locate/physrep
doi: 10.1016/j.physrep.2013.05.005

View at Publisher

4 Miyamoto, K., Ikehara, S., Takei, H., Akimoto, Y., Sakakita, H., Ishikawa, K., Ueda, M., (...), Ikehara, Y.
(2016) *Arch. Biochem. Biophys.*, 605, p. 1.

5 Emi, U., Tomoko, O., Hiromitsu, Y., Satoshi, I., Katsuhisa, K., Nobuko, M., Yasuko, M.
(2015) *Jpn. J. Conserv. Dent.*, 58, p. 101. Cited 11 times.

6 Keidar, M., Yan, D., Beilis, I.I., Trink, B., Sherman, J.H.
(2017) *Trends Biotechnol.*, 20, p. 1.

7 Wang, M., Holmes, B., Cheng, X., Zhu, W., Keidar, M., Zhang, L.G.
(2013) *PLoS One*, 8, p. e73741. Cited 167 times.

8 Chang, J.W., Kang, S.U., Shin, Y.S., Kim, K.I., Seo, S.J., Yang, S.S., Lee, J.-S., (...), Kim, C.-H.
Non-thermal atmospheric pressure plasma induces apoptosis in oral cavity squamous cell carcinoma: Involvement of DNA-damage-triggering sub-G_1 arrest via the ATM/p53 pathway
(2014) *Archives of Biochemistry and Biophysics*, 545, pp. 133-140. Cited 96 times.
doi: 10.1016/j.abb.2014.01.022
View at Publisher

9 Tanaka, H., Mizuno, M., Ishikawa, K., Nakamura, K., Utsumi, F., Kajiyama, H., Kano, H., (...), Hori, M.
Cell survival and proliferation signaling pathways are downregulated by plasma-activated medium in glioblastoma brain tumor cells (Open Access)
(2012) *Plasma Medicine*, 2 (4), pp. 207-220. Cited 65 times.
http://www.dl.begellhouse.com/download/article/732c959544c0f58a/PMED-8267-REV1.pdf
doi: 10.1615/PlasmaMed.2013008267
View at Publisher

10 Yajima, I., Iida, M., Kumasaka, M.Y., Omata, Y., Ohgami, N., Chang, J., Ichihara, S., (...), Kato, M.
Non-equilibrium atmospheric pressure plasmas modulate cell cycle-related gene expressions in melanocytic tumors of RET-transgenic mice
(2014) *Experimental Dermatology*, 23 (6), pp. 424-425. Cited 32 times.
doi: 10.1111/exd.12415
View at Publisher

11 Utsumi, F., Kajiyama, H., Nakamura, K., Tanaka, H., Hori, M., Kikkawa, F.
(2014) *Springerplus*, 3, p. 1. Cited 4 times.

12 Huang, J., Chen, W., Li, H., Wang, X.-Q., Lv, G.-H., Khohsa, M.L., Guo, M., (...), Yang, S.-Z.

Deactivation of A549 cancer cells in vitro by a dielectric barrier discharge plasma needle

(2011) *Journal of Applied Physics*, 109 (5), art. no. 053305. Cited 37 times.
doi: 10.1063/1.3553873

View at Publisher

13 Hirst, A.M., Simms, M.S., Mann, V.M., Maitland, N.J., O'connell, D., Frame, F.M.

Low-temperature plasma treatment induces DNA damage leading to necrotic cell death in primary prostate epithelial cells (Open Access)

(2015) *British Journal of Cancer*, 112 (9), pp. 1536-1545. Cited 132 times.
http://www.nature.com.proxy.undip.ac.id:2048/bjc/index.html
doi: 10.1038/bjc.2015.113

View at Publisher

14 Ishaq, M., Evans, M.D.M., Ostrikov, K.K.

Atmospheric pressure gas plasma-induced colorectal cancer cell death is mediated by Nox2-ASK1 apoptosis pathways and oxidative stress is mitigated by Srx-Nrf2 anti-oxidant system (Open Access)

(2014) *Biochimica et Biophysica Acta - Molecular Cell Research*, 1843 (12), pp. 2827-2837. Cited 86 times.
www.elsevier.com/locate/bbamcr
doi: 10.1016/j.bbamcr.2014.08.011

View at Publisher

15 Chauvin, J., Judée, F., Yousfi, M., Vicendo, P., Merbahi, N.

Analysis of reactive oxygen and nitrogen species generated in three liquid media by low temperature helium plasma jet (Open Access)

(2017) *Scientific Reports*, 7 (1), art. no. 4562. Cited 147 times.
www.nature.com/srep/index.html
doi: 10.1038/s41598-017-04650-4

View at Publisher

16 Tanaka, H., Mizuno, M., Kikkawa, F., Hori, M.

Interactions between a plasma-activated medium and cancer cells

(2016) *Plasma Medicine*, 6 (1), pp. 101-106. Cited 15 times.
http://www.dl.begellhouse.com/download/article/7b294195148021 74/(9)PMED15838.pdf
doi: 10.1615/PlasmaMed.2016015838

View at Publisher

17 Weltmann, K.-D., Von Woedtke, T.

Plasma medicine - Current state of research and medical application

(2017) *Plasma Physics and Controlled Fusion*, 59 (1), art. no. 014031. Cited 332 times.
http://iopscience.iop.org/article/10.1088/0741-3335/59/1/014031/pdf
doi: 10.1088/0741-3335/59/1/014031

View at Publisher

18 Tian, W., Kushner, M.J.

Atmospheric pressure dielectric barrier discharges interacting with liquid covered tissue

(2014) *Journal of Physics D: Applied Physics*, 47 (16), art. no. 165201. Cited 278 times.
http://iopscience.iop.org/0022-3727/47/16/165201/pdf/0022-3727_47_16_165201.pdf
doi: 10.1088/0022-3727/47/16/165201

View at Publisher

19 Mohades, S., Barekzi, N., Razavi, H., Maruthamuthu, V., Laroussi, M.

Temporal evaluation of the anti-tumor efficiency of plasma-activated media

(2016) *Plasma Processes and Polymers*, 13 (12), pp. 1206-1211. Cited 36 times.
http://onlinelibrary.wiley.com/journal/10.1002/(ISSN)1612-8869
doi: 10.1002/ppap.201600118

View at Publisher

20 Nur, M., Kinandana, A.W., Winarto, P., Muhlisin, Z., Nasrudin

Study of an Atmospheric Pressure Plasma Jet of Argon Generated by Column Dielectric Barrier Discharge (Open Access)

(2016) *Journal of Physics: Conference Series*, 776 (1), art. no. 012102. Cited 10 times.
http://www.iop.org/EJ/journal/conf
doi: 10.1088/1742-6596/776/1/012102

View at Publisher

21 Ikawa, S., Kitano, K., Hamaguchi, S.

Effects of pH on bacterial inactivation in aqueous solutions due to low-temperature atmospheric pressure plasma application

(2010) *Plasma Processes and Polymers*, 7 (1), pp. 33-42. Cited 437 times.
http://www3.interscience.wiley.com/cgi-bin/fulltext/123194999/PDFSTART
doi: 10.1002/ppap.200900090

View at Publisher

22 Oehmigen, K., Hähnel, M., Brandenburg, R., Wilke, Ch., Weltmann, K.-D., Von Woedtke, Th.

The role of acidification for antimicrobial activity of atmospheric pressure plasma in liquids

(2010) *Plasma Processes and Polymers*, 7 (3-4), pp. 250-257. Cited 520 times.
http://www3.interscience.wiley.com/cgi-bin/fulltext/123323846/PDFSTART
doi: 10.1002/ppap.200900077

View at Publisher

23 Kinandana, A.W., Nur, M., Sumariyah
(2018) *Int. J. Innov. Res. Adv. Eng.*, 5, p. 22. Cited 2 times.

24 Šantak, V., Zaplotnik, R., Tarle, Z., Milošević, S.

Optical Emission Spectroscopy of an Atmospheric Pressure Plasma Jet during Tooth Bleaching Gel Treatment

(2015) *Applied Spectroscopy*, 69 (11), pp. 1327-1333. Cited 10 times.
doi: 10.1366/15-07962

View at Publisher

25 Kitano, K., Ikawa, S., Tani, A., Ohshima, T., Yamaguchi, H., Arakawa, R., Kitamura, T., (...), Ohnishi, N.
(2011) *Proc. 20th Int. Plasma Chem. Soc.*, p. 270. Cited 2 times.

26 Takai, E., Ikawa, S., Kitano, K., Kuwabara, J., Shiraki, K.
(2013) *J. Phys. D. Appl. Phys.*, p. 46.

27 Duan, J., Lu, X., He, G.
(2017) *Phys. Plasmas*, p. 073506.

28 Adachi, T., Tanaka, H., Nonomura, S., Hara, H., Kondo, S.-I., Hori, M.
Plasma-activated medium induces A549 cell injury via a spiral apoptotic cascade involving the mitochondrial-nuclear network
(2015) *Free Radical Biology and Medicine*, 79, pp. 28-44. Cited 255 times.
www.elsevier.com/locate/freeradbiomed
doi: 10.1016/j.freeradbiomed.2014.11.014
View at Publisher

29 Kurake, N., Tanaka, H., Ishikawa, K., Kondo, T., Sekine, M., Nakamura, K., Kajiyama, H., (...), Hori, M.
Cell survival of glioblastoma grown in medium containing hydrogen peroxide and/or nitrite, or in plasma-activated medium
(2016) *Archives of Biochemistry and Biophysics*, 605, pp. 102-108. Cited 182 times.
http://www.elsevier.com.proxy.undip.ac.id:2048/inca/publications/store/6/2/2/7/8/7/index.htt
doi: 10.1016/j.abb.2016.01.011
View at Publisher

30 Winter, J., Tresp, H., Hammer, M.U., Iseni, S., Kupsch, S., Schmidt-Bleker, A., Wende, K., (...), Reuter, S.
Tracking plasma generated H_2O_2 from gas into liquid phase and revealing its dominant impact on human skin cells
(Open Access)
(2014) *Journal of Physics D: Applied Physics*, 47 (28), art. no. 285401. Cited 184 times.
http://iopscience.iop.org/0022-3727/47/28/285401/pdf/0022-3727_47_28_285401.pdf
doi: 10.1088/0022-3727/47/28/285401
View at Publisher

31 Bekeschus, S., Kolata, J., Winterbourn, C., Kramer, A., Turner, R., Weltmann, K.D., Bröker, B., (...), Masur, K.
Hydrogen peroxide: A central player in physical plasma-induced oxidative stress in human blood cells
(2014) *Free Radical Research*, 48 (5), pp. 542-549. Cited 196 times.
http://informahealthcare.com/fra
doi: 10.3109/10715762.2014.892937
View at Publisher

32 Sun, P., Sun, Y., Wu, H., Zhu, W., Lopez, J.L., Liu, W., Zhang, J., (...), Fang, J.
(2011) *Appl. Phys. Lett.*, 98, p. 021501. Cited 20 times.

33 Lukes, P., Dolezalova, E., Sisrova, I., Clupek, M.
(2014) *Plasma Sources Sci. Technol.*, p. 23. Cited 2 times.

34 Shen, J., Sun, Q., Zhang, Z., Cheng, C., Lan, Y., Zhang, H., Xu, Z., (...), Chu, P.K.

Characteristics of DC gas-liquid phase atmospheric-pressure plasma and bacteria inactivation mechanism

(2015) *Plasma Processes and Polymers*, 12 (3), pp. 252-259. Cited 63 times.
http://onlinelibrary.wiley.com/journal/10.1002/(ISSN)1612-8869
doi: 10.1002/ppap.201400129

View at Publisher

Kinandana, A.W.; Diponegoro University, Physics Department, Faculty of Science and Mathematics, Semarang, Indonesia; email:andikinandana@st.fisika.undip.ac.id

Source details

MATEC Web of Conferences

Open Access

Scopus coverage years: from 2012 to 2019

(coverage discontinued in Scopus)

E-ISSN: 2261-236X

Subject area: Engineering: General Engineering | Chemistry: General Chemistry | Materials Science: General Materials Science

Source type: Conference Proceeding

CiteScore 2019
0.8

SJR 2019
0.166

SNIP 2021
0.514

View all documents > | Set document alert | Save to source list

CiteScore | CiteScore rank & trend | Scopus content coverage

¡ Improved CiteScore methodology

CiteScore 2019 counts the citations received in 2016-2019 to articles, reviews, conference papers, book chapters and data papers published in 2016-2019, and divides this by the number of publications published in 2016-2019. Learn more >

CiteScore 2019

$$0.8 = \frac{13{,}657 \text{ Citations 2016 - 2019}}{17{,}746 \text{ Documents 2016 - 2019}}$$

Calculated on 06 May, 2020

CiteScore rank 2019

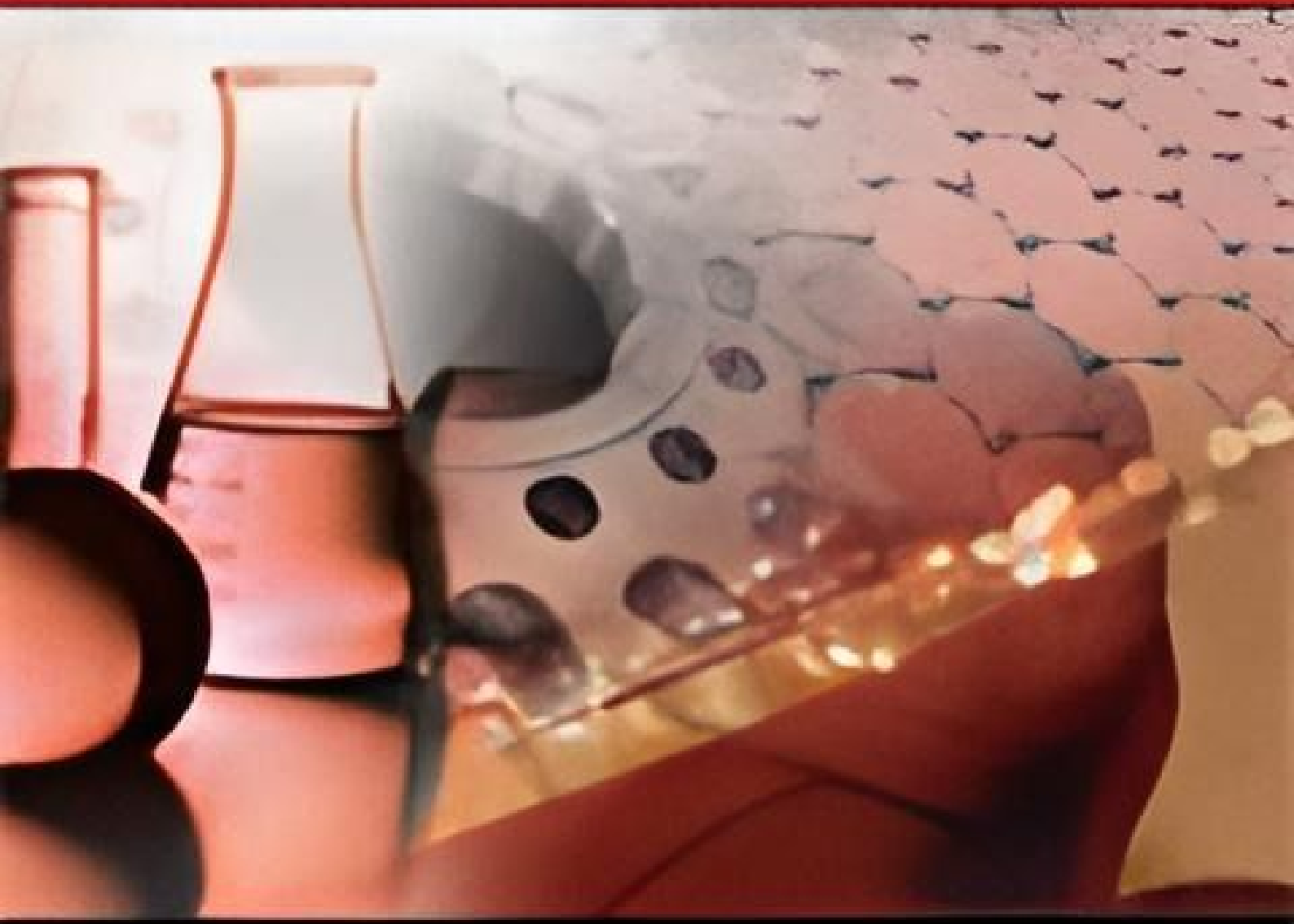
Category	Rank	Percentile
Engineering — General Engineering	#196/299	34th
Chemistry — General Chemistry	#303/398	23rd
Materials Science		

View CiteScore methodology > | CiteScore FAQ > | Add CiteScore to your site

Research Science Engineering and Technology

MATEC Web of Conferences

Proceedings



EDP Sciences

Editorial board

Free Access to the whole issue

MATEC Web of Conferences

Volume 197 (2018)

The 3rd Annual Applied Science and Engineering Conference (AASEC 2018)

Bandung, Indonesia, April 18, 2018

Ade Gafar Abdullah and Asep Bayu Dani Nandiyanto (Eds.)

Export the citation of the selected articles Export

Select all

Open Access

Statement of Peer review

Published online: 12 September 2018

PDF (34.4 KB)

Open Access

About the conference

Published online: 14 September 2018

PDF (10.7 MB)

Optimal tube diameter on heat exchanger shell and tube type with 15 mega watt thermal power using fluent 6.3 02011

Siti Nurhasanah, Muhammad Subekti, Moch. Nurul Subkhi and Bebeh Wahid Nuryadin

Published online: 12 September 2018

DOI: https://doi.org/10.1051/matecconf/201819702011

PDF (1.078 MB) | References

Open Access

Preliminary study of software tracker usage to analyze inhibitory style on free fall movie events 02012

Seni Susanti, Ea Cahya Septia Mahen and Ade Yeti Nuryantini

Published online: 12 September 2018

DOI: https://doi.org/10.1051/matecconf/201819702012

PDF (549.9 KB) | References

Open Access

Analysis of Plasma-activated Medium (PAM) in aqueous solution by an Atmospheric Pressure Plasma Jet (APPJ) 02013

Andi Wibowo Kinandana, Sumariyah Sumariyah and Muhammad Nur

Published online: 12 September 2018

DOI: https://doi.org/10.1051/matecconf/201819702013

PDF (652.9 KB) | References

Open Access

Effect of nanostructure Ni on the sorption properties of mechanical milled MgH_2 for solid hydrogen storage materials 02014

Zulkarnain Jalil, Adi Rahwanto and Erfan Handoko

Published online: 12 September 2018

DOI: https://doi.org/10.1051/matecconf/201819702014

PDF (418.8 KB) | References

Open Access

Effect of different permeability on electromagnetic properties of absorbing materials 02015

Riser Fahdiran, Yuliyanti Dwi Utami and Erfan Handoko

Published online: 12 September 2018

DOI: https://doi.org/10.1051/matecconf/201819702015

PDF (1.025 MB) | References