ATOM INDONESIA
Author's Responses

Article : #418

Name of All Authors : [redacted]

Article Title : The Utilization of Irradiated –Compost Based Microbial Inoculants on Dryland Remediation to Increase The Growth of King Grass and Maize

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Line #	Referee's Comments	Author's Responses
11	English language corrections are required entirely.Please consult with your colleague whose written English ability is excellent (TOEFL scores of greater than 580).	The sentences are revised according English grammar.
15-18	This sentence is not appropriate to be put in the introduction section since it has no direct connection with the whole topic of the paper ;thus we recommend the author to eliminate it.	The sentence is eliminated according the referee's comments
20	Please rearrange the sentence to become :a region or forest buffer zone is required to ensure the protection and preservation of forests.	The sentence is rearranged according the referee's comments
26	…carried out in…(please use space)	It has been done
36-42	These two sentences need to be connected with another sentence or conjunction as they do not seem to properly connect to each other.	The sentence is rearranged according the referee's comments
44	…which can be treated…..(remove the word'these')	It has been done
72-73	….in the compost ,the sterilization process carrier is then performed.	It has been done
73	…One of the cleaning methods is….	It has been done
75-77	Please indicate in the quote about what happened to sterilization results when the author employed a gamma irradiation dose of 25 kGy.	The additional statement was given to complete information
91-94	….field trials ,which included preparation….	It has been done
93-94	Please replace the phrase"microbial inoculants based irradiated-compost"with"irradiated-compost based microbial inoculants"	It has been done
98-99	Please replacethe phrase"microbial inoculants based irradiated-compost"with"irradiated-compost Based microbial inoculants"	It has been done
97	…used as…	It has been done
99	..Mean while activities…	It has been done
101	…an area of old well…	It has been done
103	…used as…	It has been done
104-105	Please replace the phrase"microbial inoculants based irradiated-compost"with"irradiated-compost Based microbial inoculants"	It has been done
108-109	Please replace the phrase"microbial inoculants based	It has been done

Line #	Referee's Comments	Author's Responses
	irradiated-compost"with"irradiated-compost Based microbial inoculants"	
116	…"including", not"included"	It has been done
117	…which were…	It has been done
125	How long was the compost-based carrier materials exposed to the gamma irradiation? What was the gamma source employed in the sterilization?	The compost -based carrier materials are sterilized by gamma irradiation dose of 25 kGy which radiation source is Co-60 of 4000A Gamma Chamber. Dose rate was used 2.1 kGy/hour at room temperature
126-131	Please revise the sentence as it is ambiguous and too long.More over the subject,verb and object/adverb are unclear in the sentence.	It has been done
131-135	Please state in a sentence or two if there were no physicaland/or chemical changes to the microbial inoculants following 14 days of incubation.	It has been done
137-138	Please replace the phrase"microbial inoculants based irradiated-compost"with"irradiated-compost basedmicrobial inoculants".	It has been done
141-169	Please check for grammatical errors here,including tenses.The sentences are"too Indonesian".	It has been done
171-172	Please replace the phrase"microbial inoculants based irradiated-compost"with"irradiated-compost Based microbial inoculants".	It has been done
178-233	Ambiguous sentences.Please check for grammatical errors.Again,the sentences are"too Indonesian".	It has been done
246-250	Again,it is probably important to state how long the compost-based carrier materials were exposed to the gamma irradiation? What was the gamma source employed in the sterilization?	Application of 4000A Gamma Chamber for sterilization performed on the dose of 25 kGy of capable to clean original microorganisms of compost-based carrier material to undetectable of 10^1 cfu/g as shown in Table 1.
240-254	Please check for grammatical errors.	It has been done
261-266	Please delete this sentence.	It has been done
337-340	In Figure1,it seems that there are less teak trees at the remediation (B) site I than that of the control (A)site I. This may be the reasons why the Please offer some explanations here.	In Figure 1, it seems that there are less teak trees at the plot B (site I) than that of the plot A (control). This is due to the growth of teak plants in plot B is less evenly distributed than plot A.
267-495	The level of English used in nearly all sentences is quite poor.Please check for grammatical errors entirely.	It has been done

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Author Signature(s) Date, June,30,2015



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Name(s) (print)

ATOM INDONESIA
2nd Author's Responses

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Line #	2nd Referee's Comments	2nd Author's Responses
1-3	Title of paper should be changed	The title was changed
239-240	.....environment that is rich in nutrients, ~~required~~ carrier sterilization is required [12].	The sentence is rearranged according the referee's comments
225	....25 kGy ~~of capable~~ is able to clean....	The sentence is rearranged according the referee's comments
244	..... ~~In the~~ The sterilization	It has been done
245	...., ~~no~~ does not changes ~~in~~ the	It has been done
254-258	The dryland of teak forest at Persil 3 Ngasem district , Bojonegoro has a neutral pH (6.6 to 7.5) , moderate organic- C (2-3 %) , high N (0 .51 to 2560.75) , low C / N ~~is very low~~ (< 5) and low P_2O_5 ~~is very low~~ (< 4 ppm P) . In According to these criteria	It has been done
259-261	~~available~~ very low P (P2O5) very low suspected to be associated with the less optimal of carrying capacity of the land ~~less than optimal~~ for crop growth and yield.	It has been done
263	Microbial inoculants ~~is~~ was expected ~~capable~~ to be able to improve	It has been done
265	solubulizing bacteria [8]. (need conjunction) Availability of phosphate	The sentence was added by conjunction
268-269	remediation ~~application~~ applied on dry land uses of maize (*Zea mays*).	The sentence is rearranged according the referee's comments
275-282	traditional oil explorationn sites (Cepu) has a slightly alkaline pH criteria (7.6 to 8.5) , high organic - C ~~is very high~~ (> 5 %) , low N (0.1-0.2 %) , high C/ N ratio ~~is very high~~ (> 25) and low P_2O_5 ~~is very low~~ (< 4 ppm P) . Characteristics of these physicochemical properties suspected to be associated with spills or contamination of oil sludge in the ground . A this ~~This~~ condition ~~required~~ requires	The sentence is rearranged according the referee's comments
290	second stage was through	It has been done
300	consortia inoculant to ~~enhancing~~ enhance the growth and yield of ...	It has been done
303-310	bio-organic fertilizer that ~~consisted~~ consist of 80 % manure, 16 % cattle feed residual straw and 4 % dolomite. The obtained bio -organic fertilizer ~~(PBO)~~ has appropriate quality parameters according to ~~The~~ the regulation of Agricultural Ministry No. 28 / Permentan / SR.130 / S / 2009 on the minimum technical requirements of organic fertilizers such as shown in Table 3.	The sentence is rearranged according the referee's comments
342	teak (site II) shows better results ~~better~~ than the control	It has been done
360	.... on the dryland. It is	It has been done
366	..... By that (uncommon conjunction)	Conjunction was changed

Line #	2nd Referee's Comments	2nd Author's Responses
429-430	... C/N ratio, . ~~And~~ and TPH had significant difference (P<0.05), whereas organic matter, N total, and pH had no ~~signifant~~ significant ~~differenceas~~ differences (P>0.05) ~~from~~ between the treatment obtained by plot A and plot B as shown in Table 6. The in-situ composting for 60 days can reduce the content of TPH (Total Petroleum hydrocarbons) from 105 g/kg to 44 g/kg (58.10 %). The in-situ composting and King grass planting for 120 days was ~~capable~~ able to reduce the content of TPH from 105 g/kg to 24 g /kg (76,75%). On the other hand, the in-situ composting and King grass planting for 120 days enriched by plant growth promoting- functional microbial inoculants can decrease TPH content from 105 g/kg to 19 g/kg (82,23 %). The results indicate that hydrocarbon degrading-functional - microbial inoculants and plant growth promoting- functional microbial inoculants are suitable to use on dryland remediation of oil sludge contaminated soil by using in-situ composting and landfarming methods [11]. The results indicate that .. (repetition, use conjunction)	The sentence is rearranged according the referee's comments
433	~~dryland~~ productive functions	It has been done
465	based microbial inoculants contain~~sed~~ of plant growth	The sentence is rearranged according the referee's comments
477-478	at Kedewan, Cepu-Blora and ~~village~~ local government of Ngasem,	It has been done

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Author Signature(s) Date, October, 28,2015



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