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Larvicidal activity of brusatol isolated from *Brucea javanica* (L) merr on *Culex quinquefasciatus* (Article) [\(Open Access\)](#)

Sutiningsih, D.^a ✉, Nurjazuli, N.^b, Nugroho, D.^c, Baskoro, T.^d ^aDepartment of Epidemiology and Tropical Disease, Faculty of Public Health, Diponegoro University, Semarang, Indonesia^bDepartment of Environmental Health, Faculty of Public Health, Diponegoro University, Semarang, Indonesia^cDepartment of Biostatistics, Faculty of Public Health, Diponegoro University, Semarang, Indonesia[View additional affiliations](#) ∨

Abstract

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Vector control is still emphasized on the using of chemical insecticide which can cause death of non-target organisms, pollution and vector resistance. Therefore, natural insecticides/larvicides are an alternative to using chemical insecticides to control the mosquito vector. Methods: Brusatol was isolated from the seeds of Makassar Fruit (*Brucea javanica* L. Merr). *Culex quinquefasciatus* larvae were divided into 3 groups, i.e. 6 testing groups and one negative and positive control group. In the negative control group, the larvae were treated with 100 ml aquadest and positive control was treated with temephos 1 ppm. After 24 hours, dead larvae were calculated and the percentage of death was determined. The dead larvae were then examined for morphological changes using a light microscope. Results: The higher of the concentration level of brusatol, the higher number of the death of *Cx. quinquefasciatus* larvae ($P < 0.05$). The value of brusatol Lethal Concentration 50 to larvae *Cx. quinquefasciatus* was 0.010 ± 0.122 and value of brusatol Lethal Concentration 90 to larvae *Cx. quinquefasciatus* was 0.654 ± 0.081 ppm. The higher the concentration of brusatol, the morphological damage of *Cx. quinquefasciatus* larvae was getting worse and widespread to cause damage to the digestive tract and cuticle. Conclusion: Brusatol isolated from the seed of *B. javanica* (L) Merr have larvicidal activity to the *Cx. quinquefasciatus* which is potential to be natural larvicide. © 2019, Iranian Journal of Public Health. All rights reserved.

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[Brucea javanica \(L\) Merr](#) [Brusatol](#) [Culex quinquefasciatus](#) [Larvicide](#)

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
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
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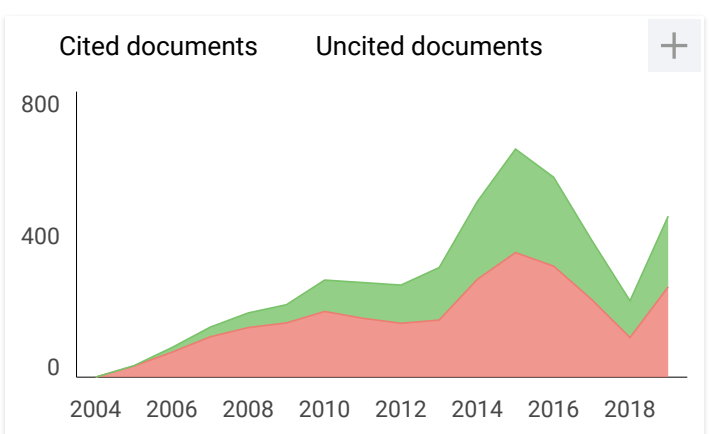
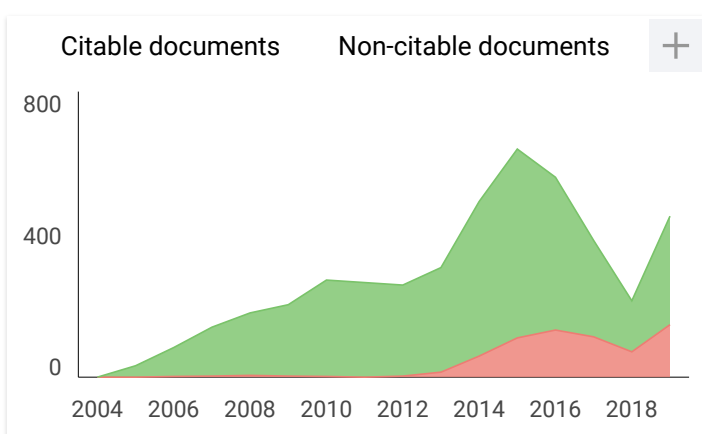
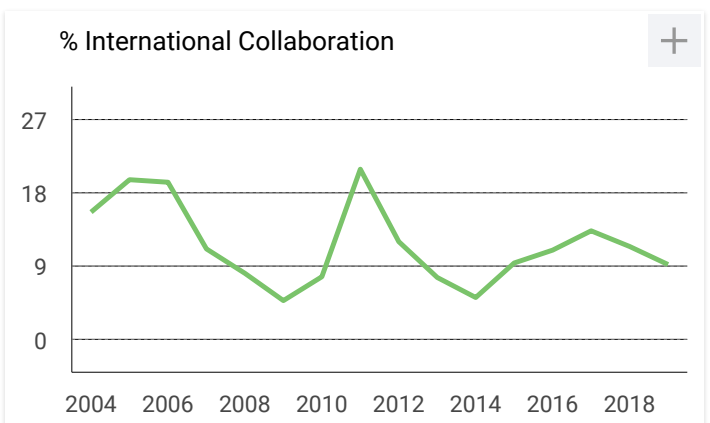
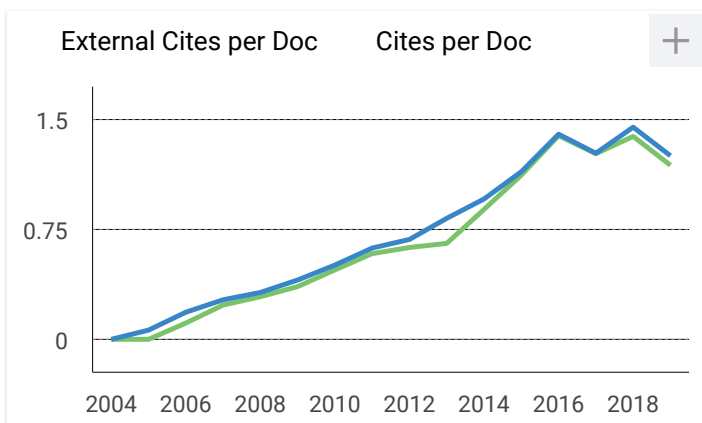
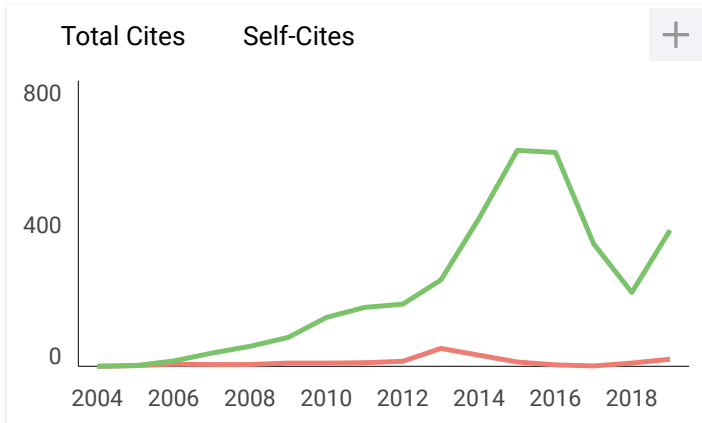
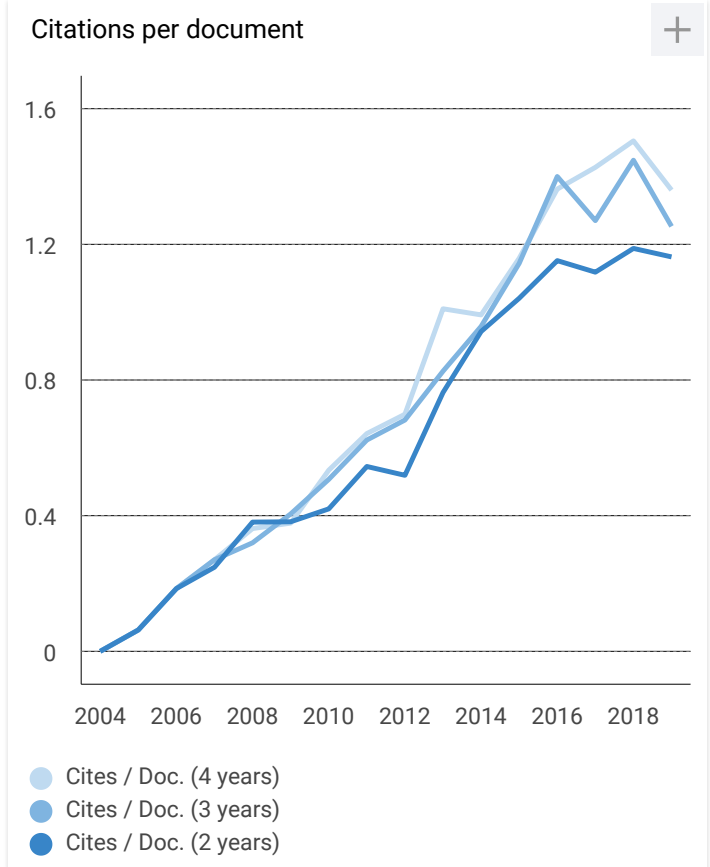
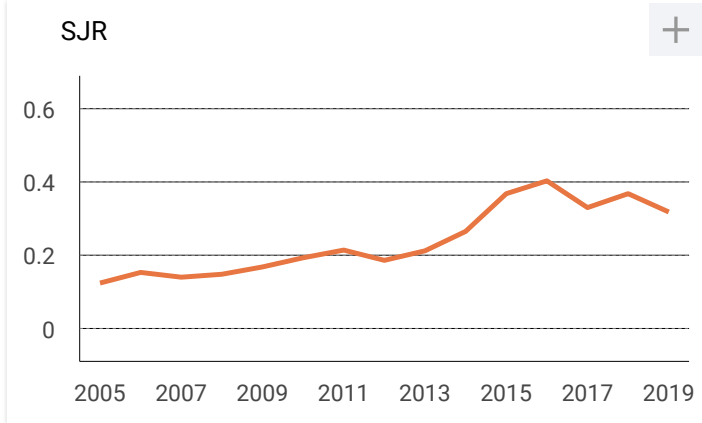
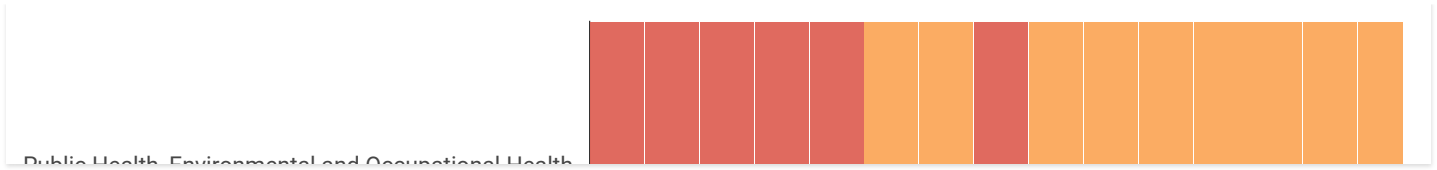
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