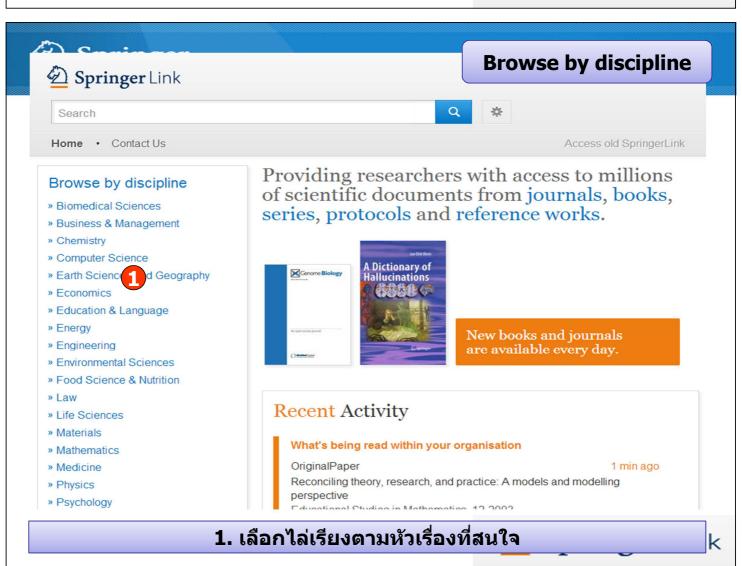
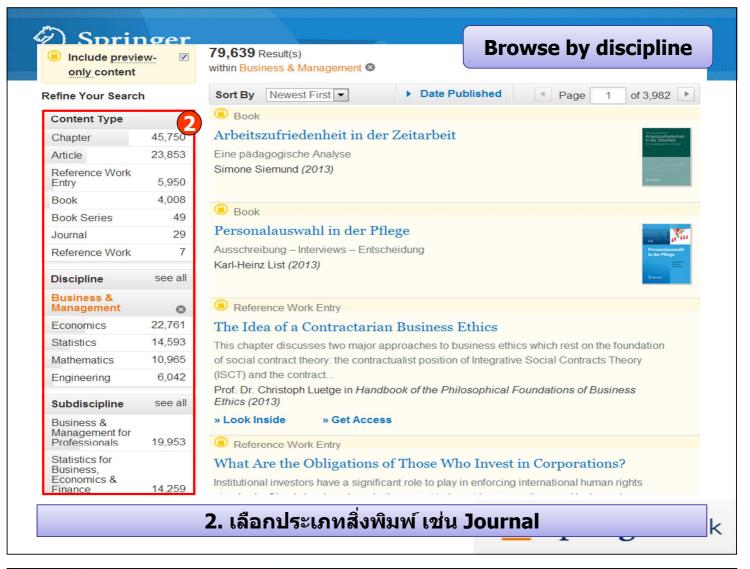


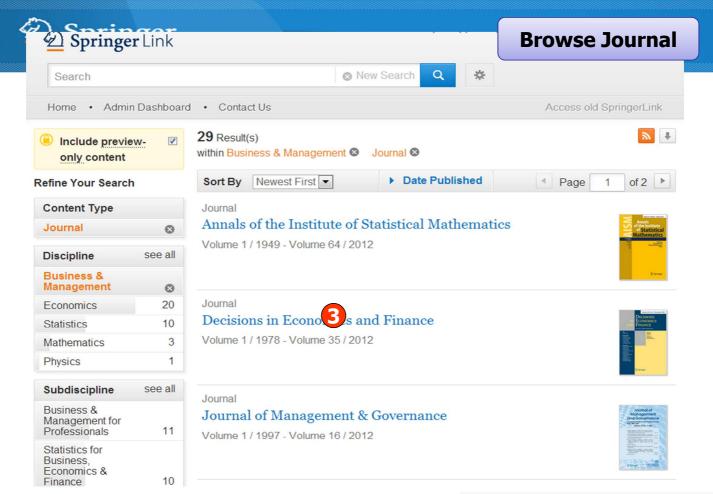
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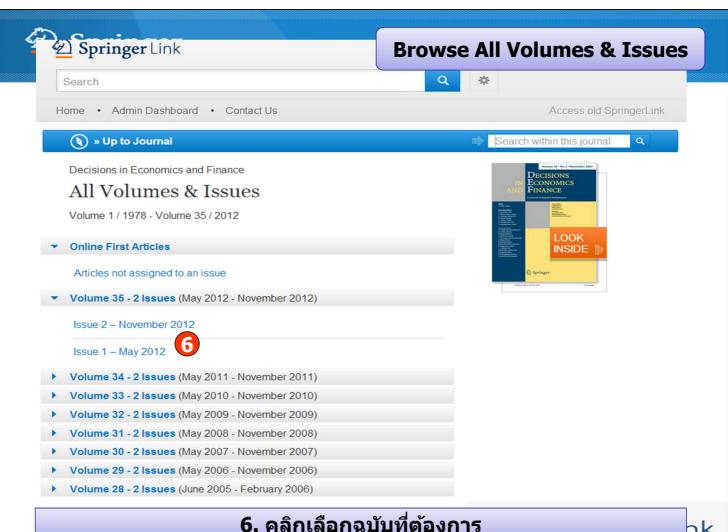


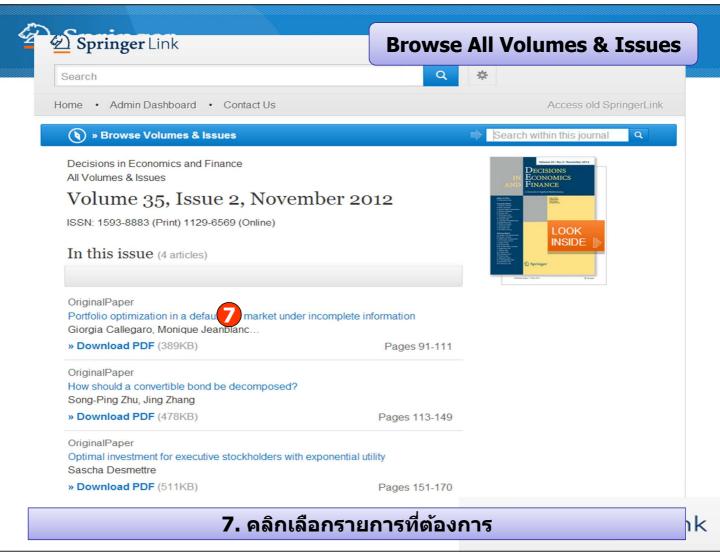


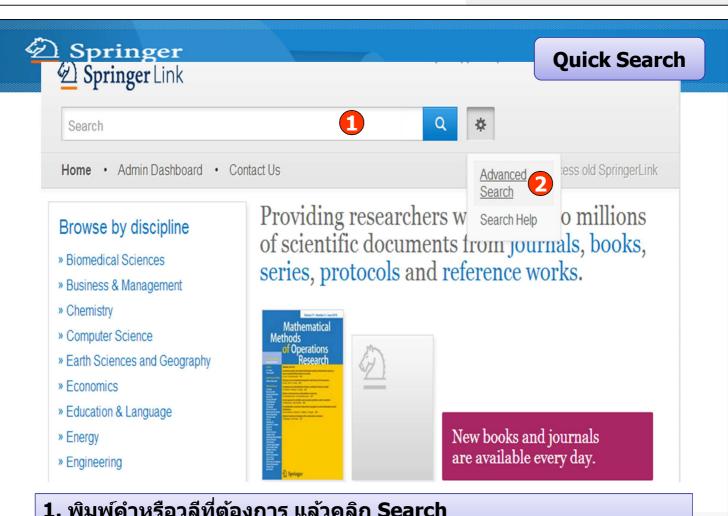


3. เลือกชื่อสิ่งพิมพ์ที่ต้องการ







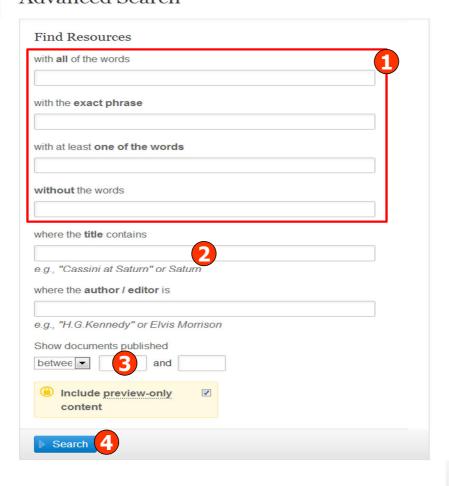


2. คลิกที่รูป 😤 เพื่อเลือกการสืบคันขั้นสูง Advanced Search



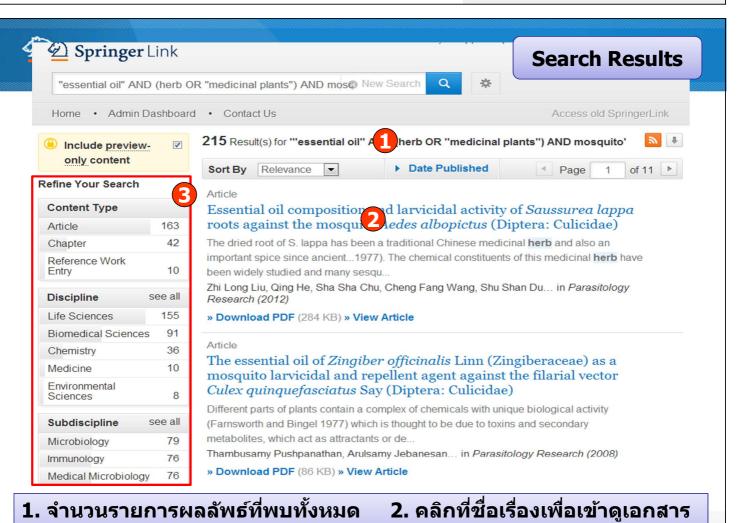
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Essential oils extracted by steam distillation from *Zingiber officinalis* was evaluated for larvicidal and repellent activity against the filarial mosquito *Culex quinquefasciatus*. The larval mortality was observed after 24 h treated for late third instar. The LC50 value was 50.78 ppm. Skin repellent test at 1.0, 2.0, 3.0, and 4.0 mg/cm2 concentration of *Z. officinalis* gave 100% protection up to 15, 30, 60, and 120 min. These results clearly reveal that the essential oil of *Z. officinalis* served as a potential larvicidal and repellent agent against filarial vector *C. quinquefasciatus*.

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Parasitol Res (2008) 102:1289-1291 DOI 10.1007/s00436-008-0907-6

ORIGINAL PAPER

The essential oil of Zingiber officinalis Linn (Zingiberaceae) as a mosquito larvicidal and repellent agent against the filarial vector Culex quinquefasciatus Say (Diptera: Culicidae)

Thambusamy Pushpanathan • Arulsamy Jebanesan • Marimuthu Govindarajan

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Abstract Essential oils extracted by steam distillation from *Zingiber officinalis* was evaluated for larvicidal and repellent activity against the filarial mosquito *Culex quinquefasciatus*. The larval mortality was observed after 24 h treated for late third instar. The LC₅₀ value was 50.78 ppm. Skin repellent test at 1.0, 2.0, 3.0, and 4.0 mg/cm² concentration of *Z. officinalis* gave 100% protection up to 15, 30, 60, and 120 min. These results clearly reveal that the essential oil of

insecticide which is more powerful, with lesser side effects and degrading after sometime, reducing the change to develop resistance against it. These problems have renewed interest in exploiting the pest control potential of plants. In addition to application as general toxicants against immature mosquitoes, phytoche uses as larvicidal repellents.

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