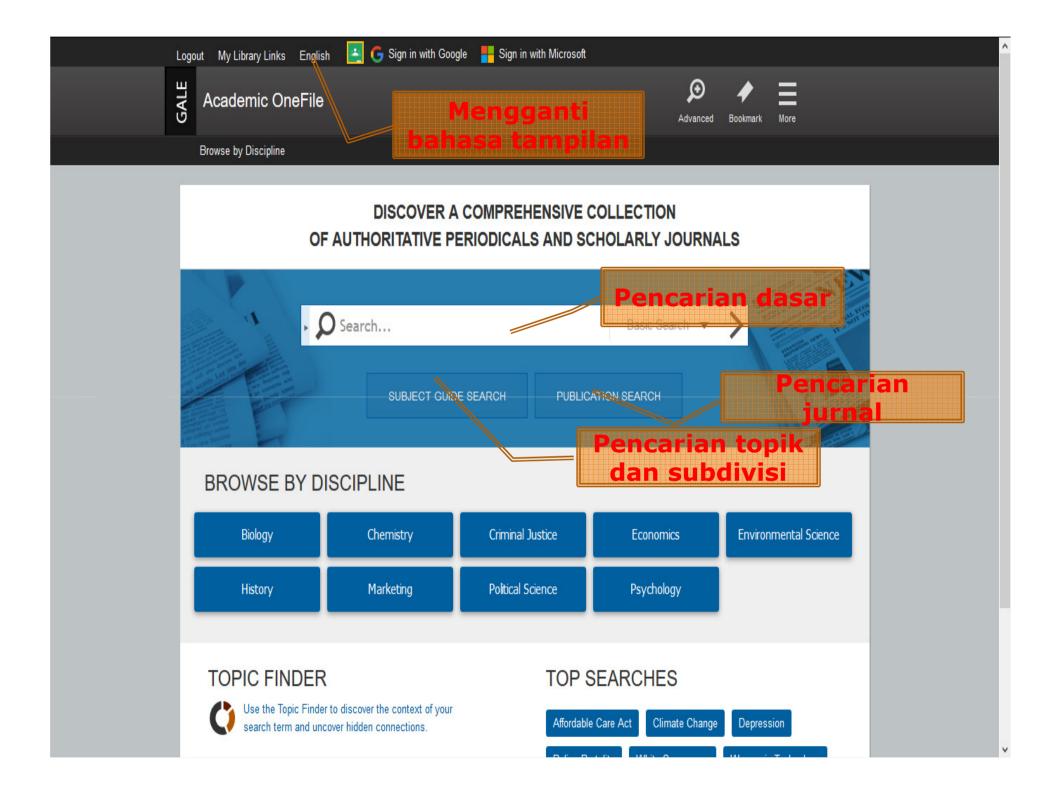
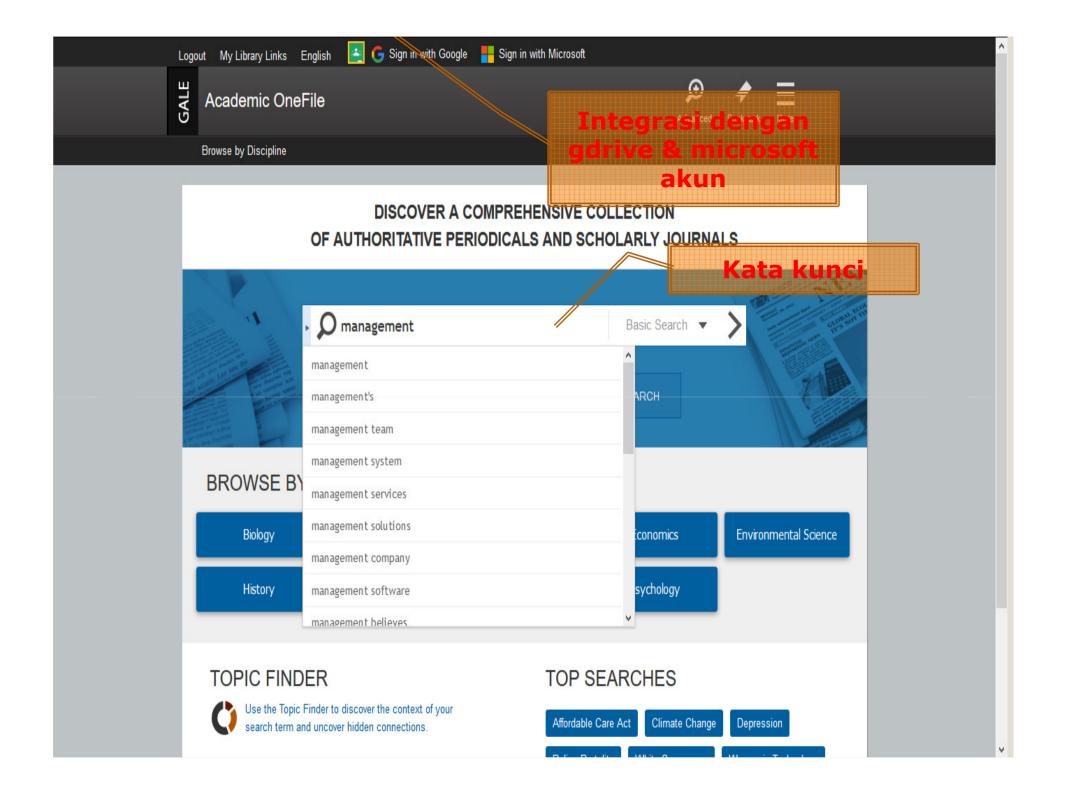
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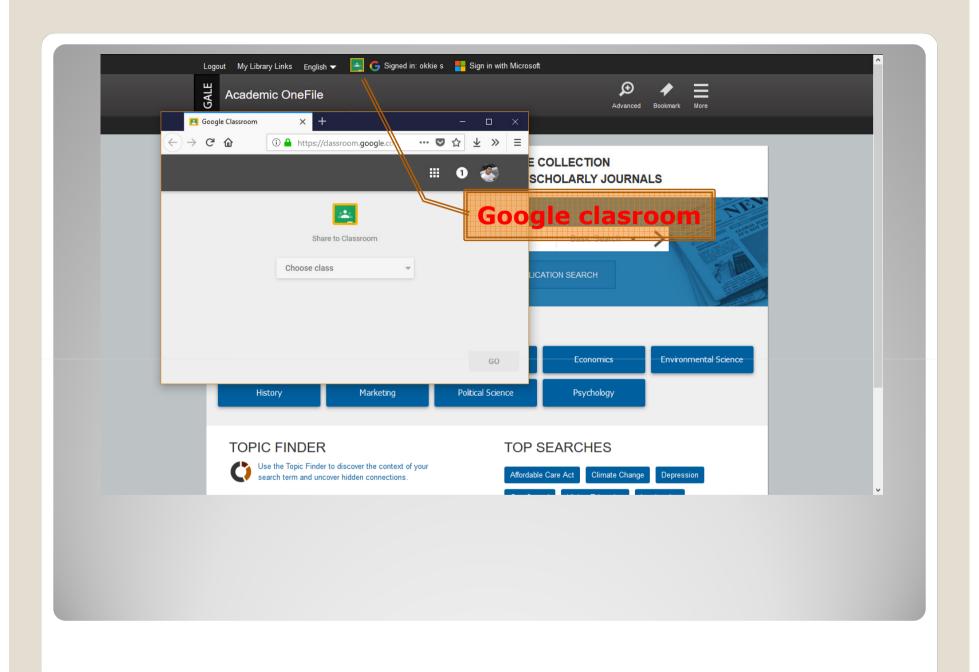
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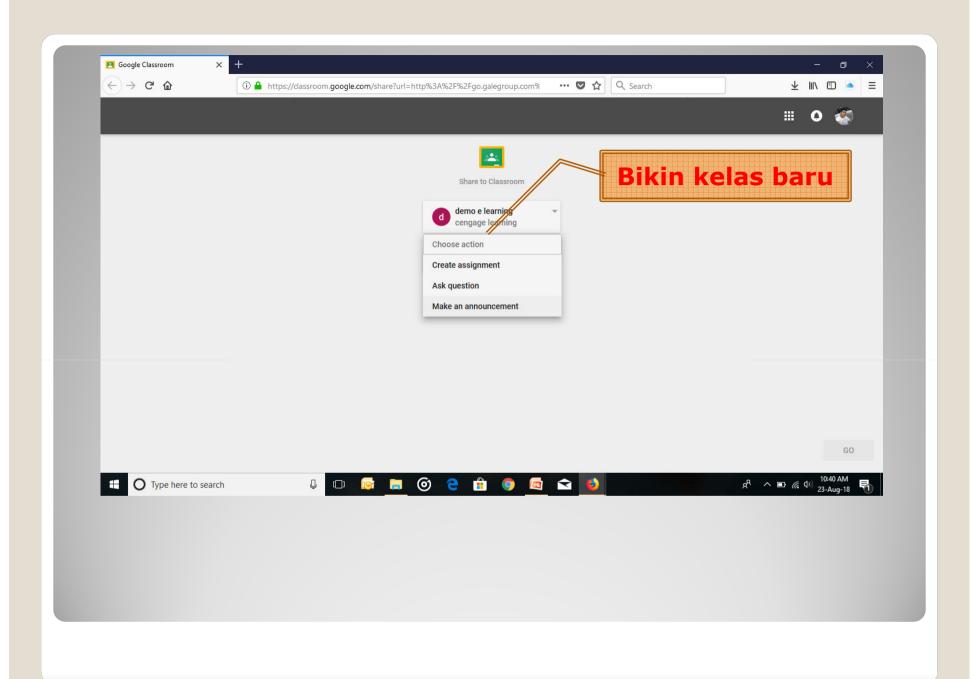


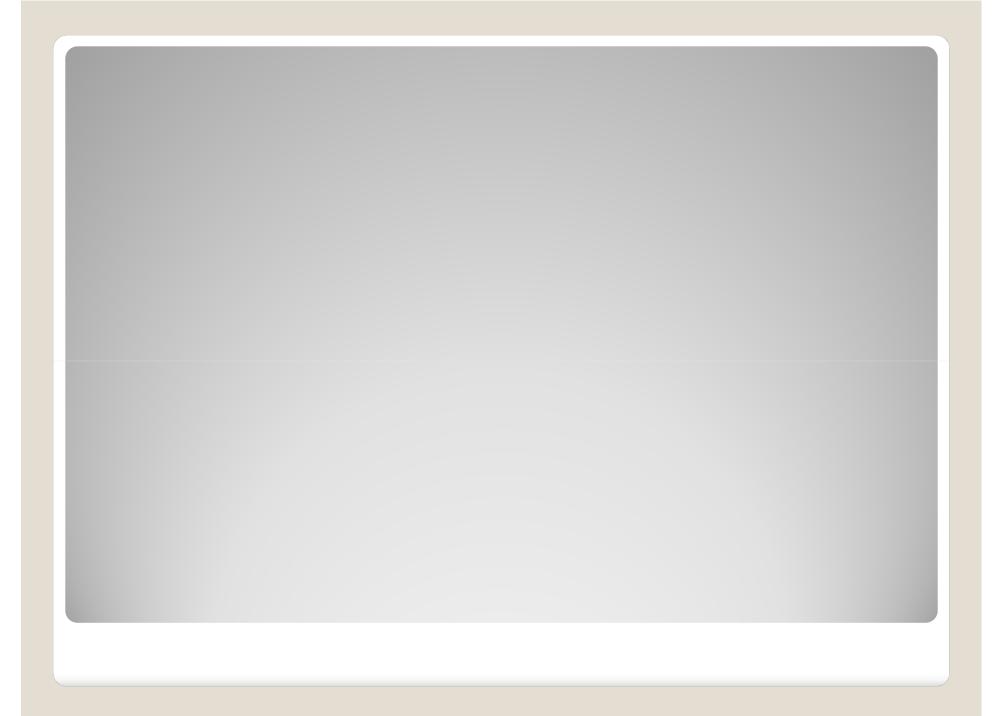


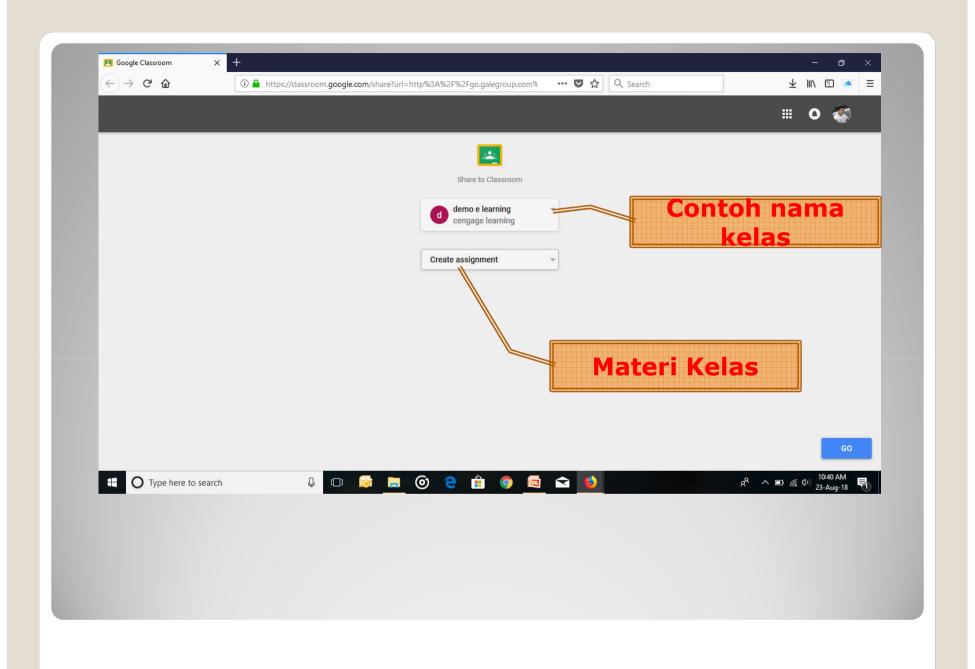


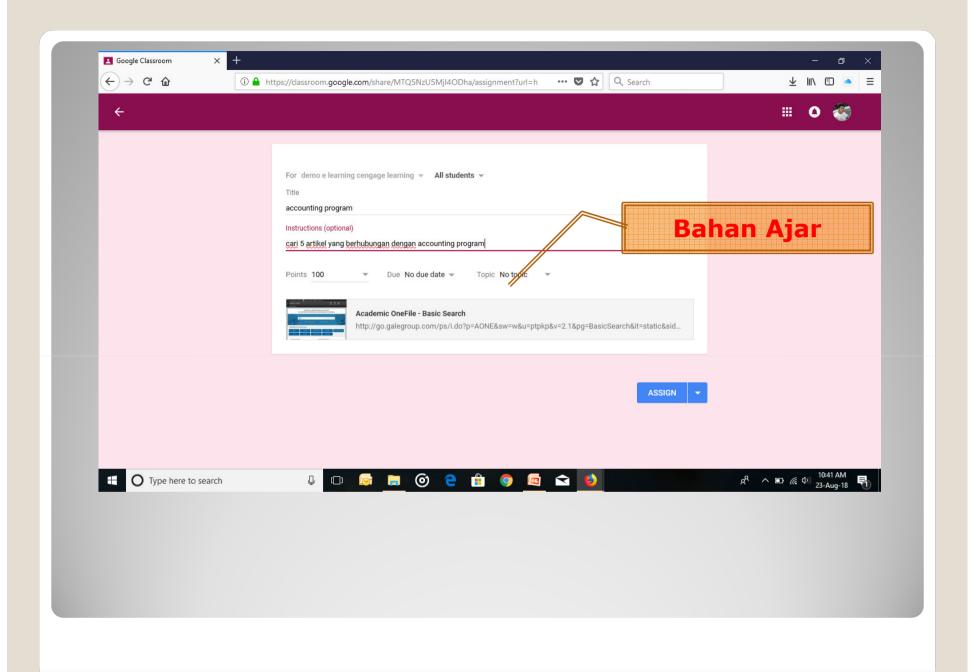


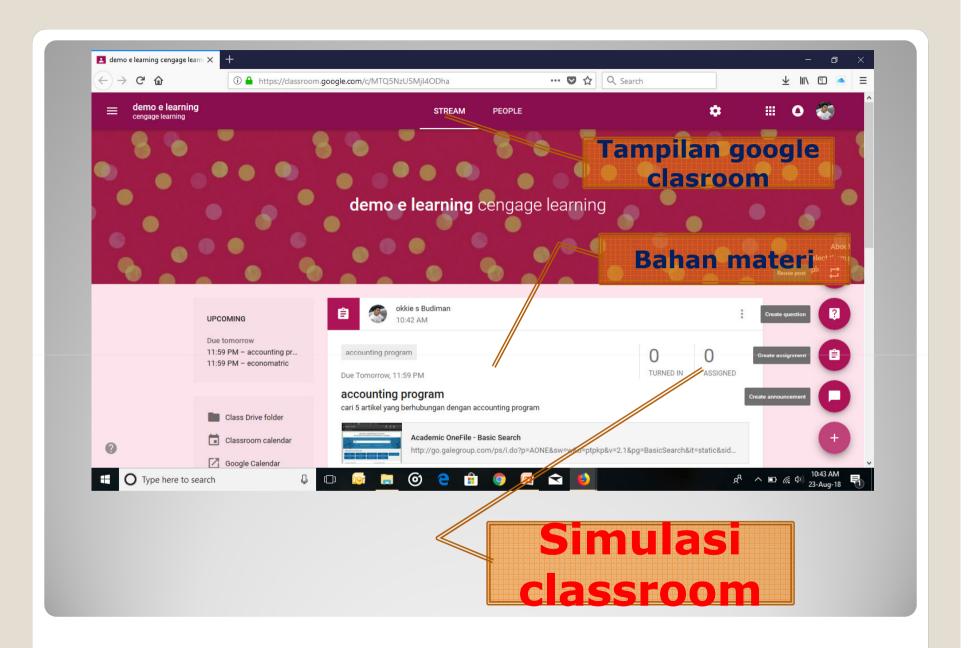


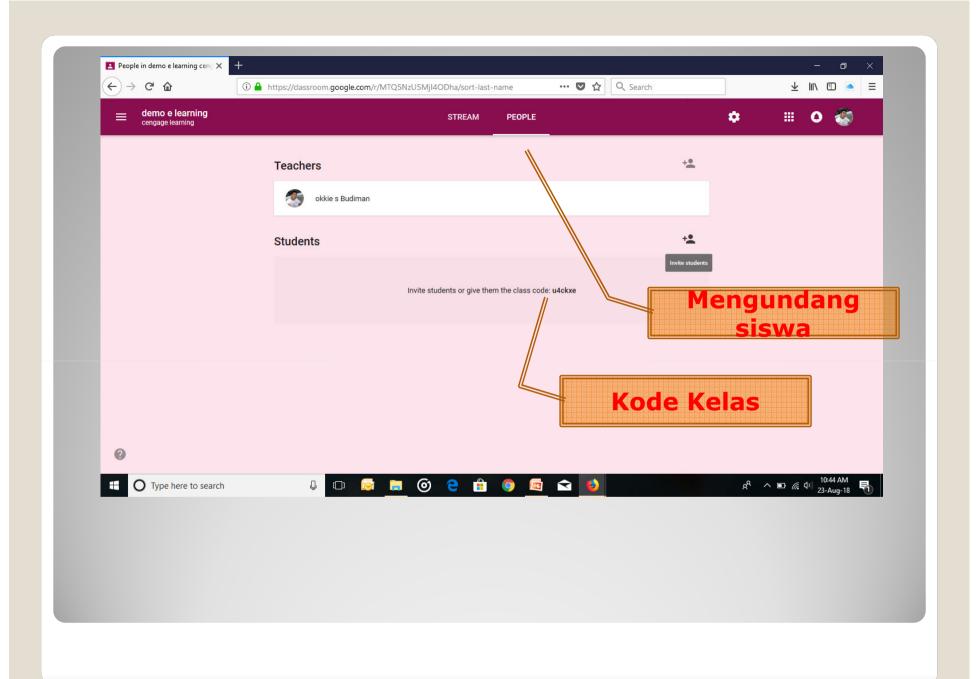


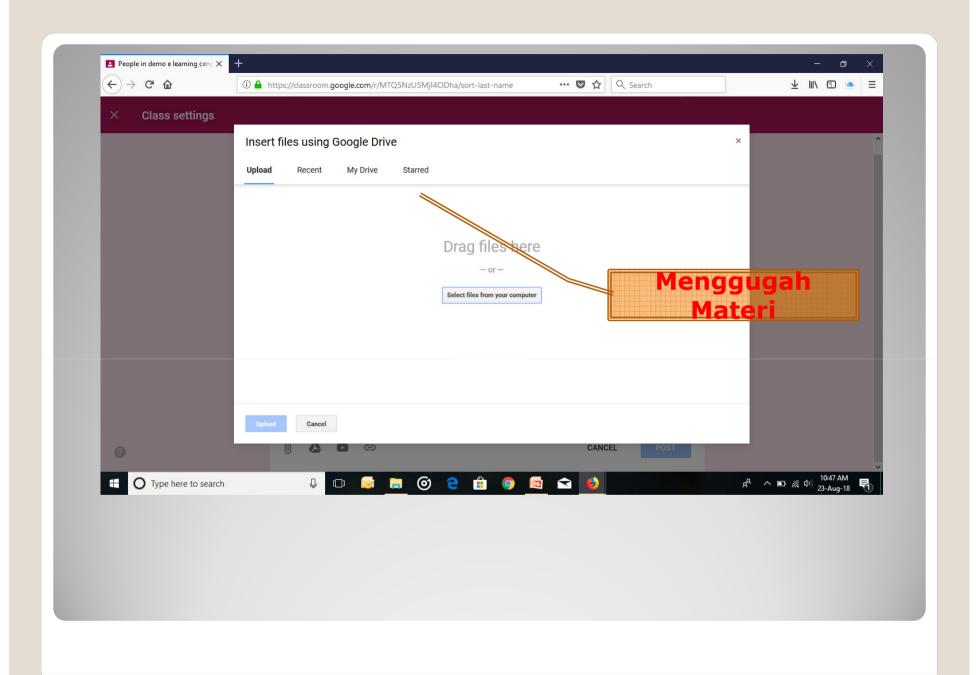


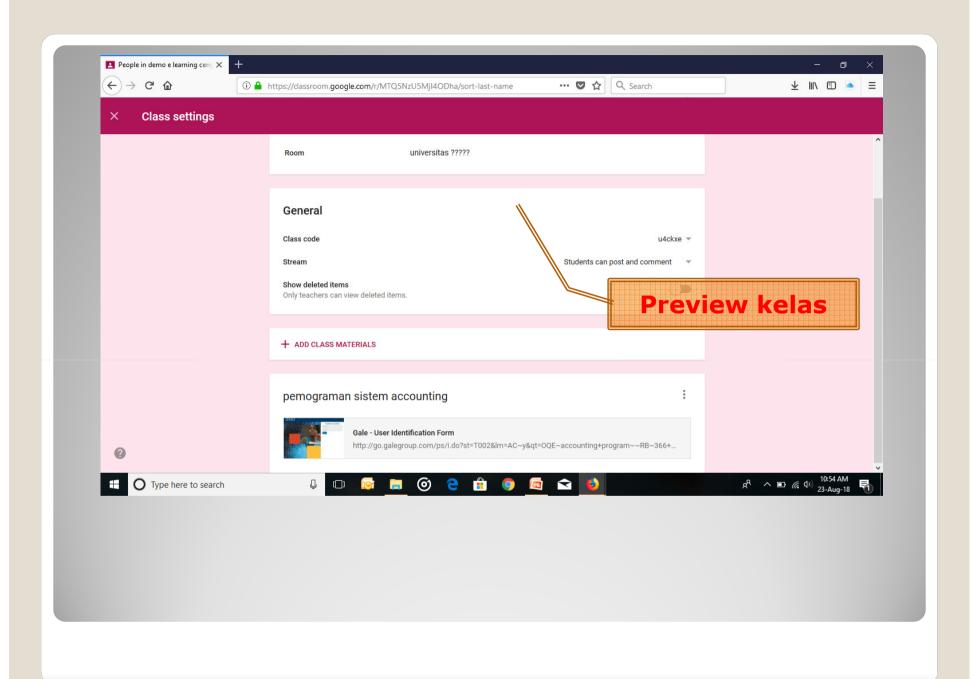


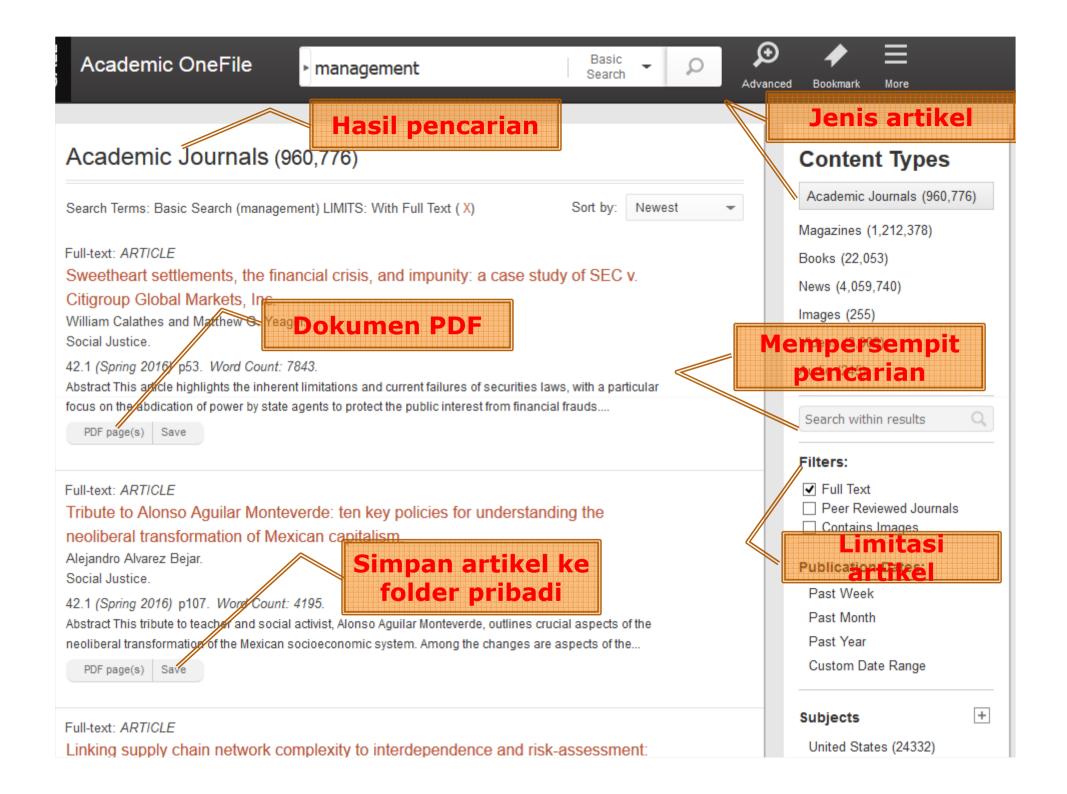


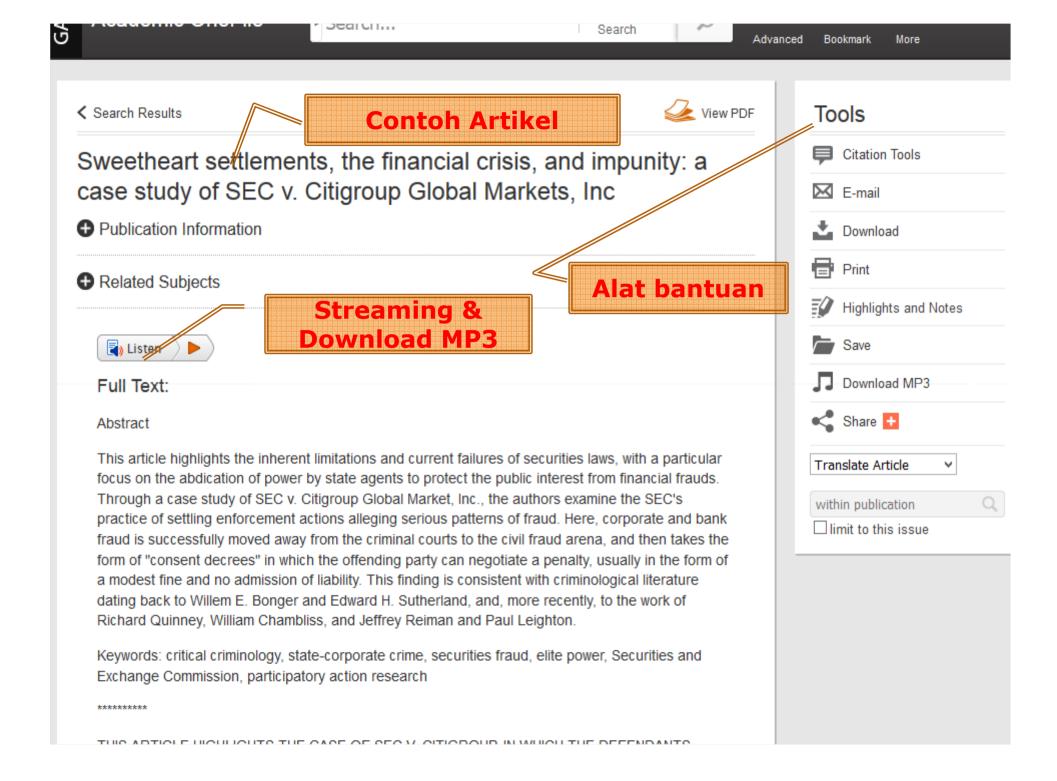


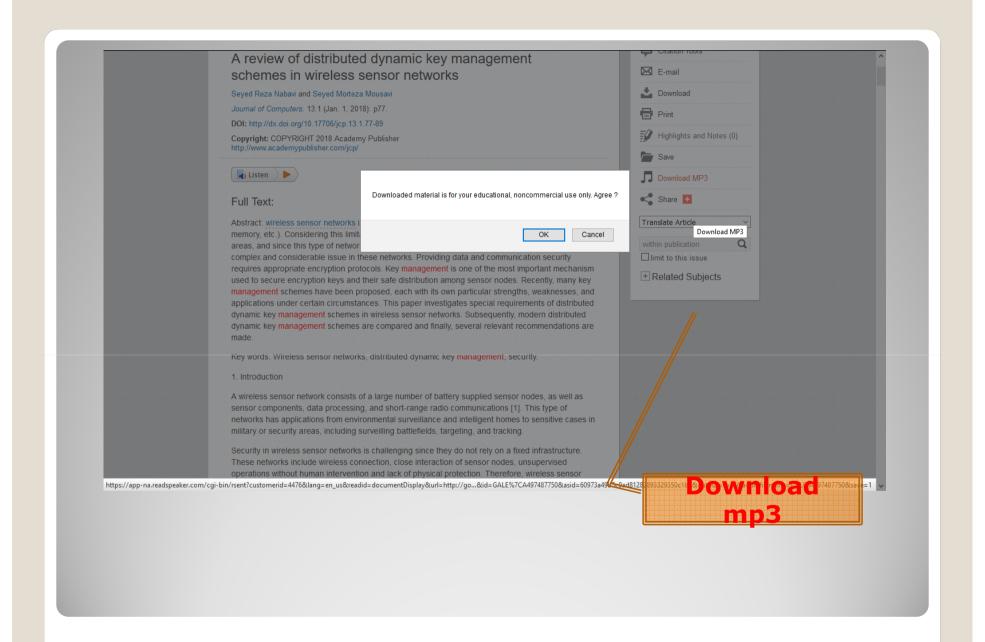












A review of distributed dynamic key management schemes in wireless sensor networks

Seyed Reza Nabavi and Seyed Morteza Mousavi

Journal of Computers. 13.1 (Jan. 1, 2018): p77.

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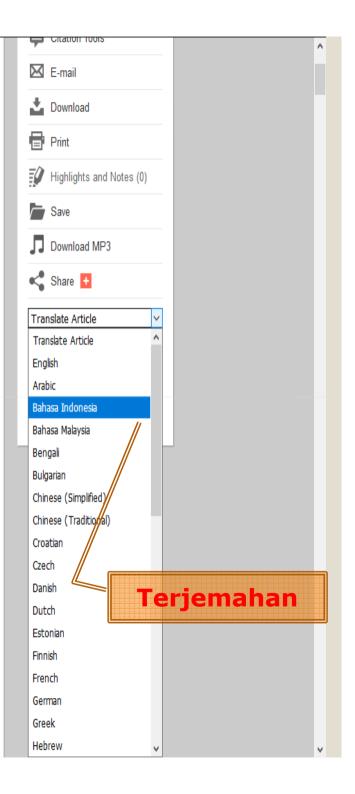
Abstract: wireless sensor networks include small-sized sensor nodes with limited resources (energy, memory, etc.). Considering this limitation and their placement in unsupervised locations, e.g. military areas, and since this type of networks does not rely on a fixed infrastructure, security becomes a complex and considerable issue in these networks. Providing data and communication security requires appropriate encryption protocols. Key management is one of the most important mechanism used to secure encryption keys and their safe distribution among sensor nodes. Recently, many key management schemes have been proposed, each with its own particular strengths, weaknesses, and applications under certain circumstances. This paper investigates special requirements of distributed dynamic key management schemes in wireless sensor networks. Subsequently, modern distributed dynamic key management schemes are compared and finally, several relevant recommendations are made.

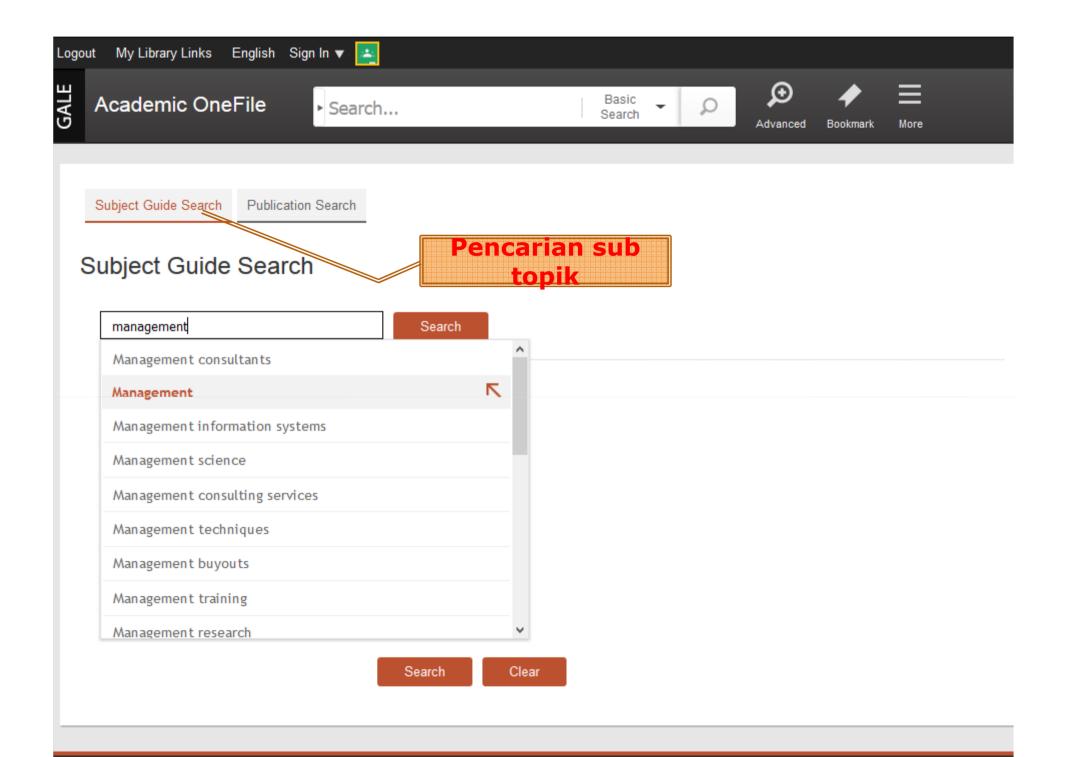
Key words: Wireless sensor networks, distributed dynamic key management, security.

1. Introduction

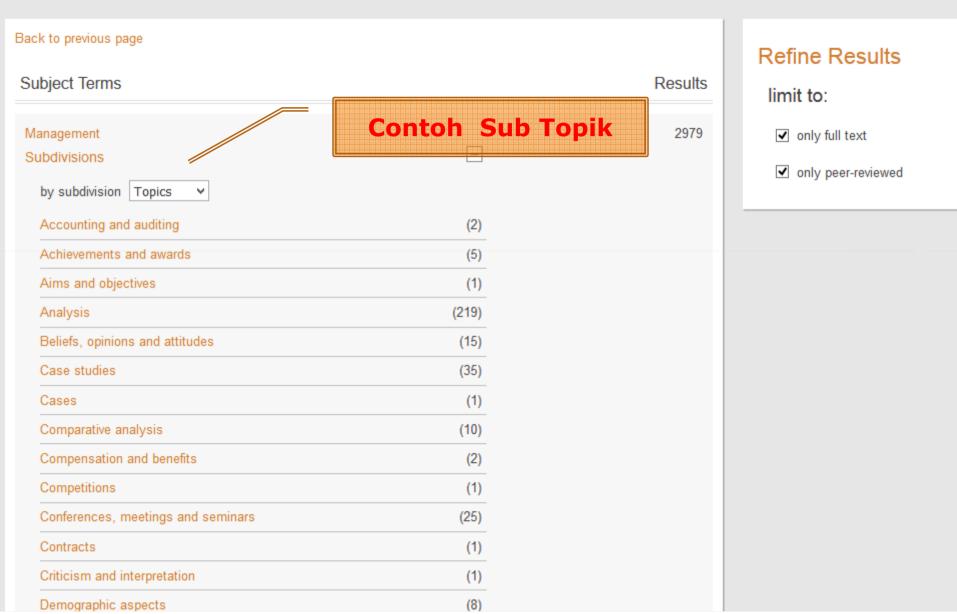
A wireless sensor network consists of a large number of battery supplied sensor nodes, as well as sensor components, data processing, and short-range radio communications [1]. This type of networks has applications from environmental surveillance and intelligent homes to sensitive cases in military or security areas, including surveilling battlefields, targeting, and tracking.

Security in wireless sensor networks is challenging since they do not rely on a fixed infrastructure. These networks include wireless connection, close interaction of sensor nodes, unsupervised operations without human intervention and lack of physical protection. Therefore, wireless sensor networks are vulnerable against an extensive set of attacks at network level, as well as physical

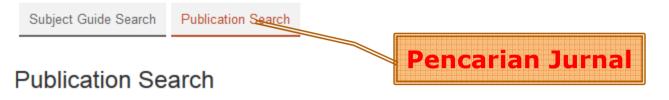




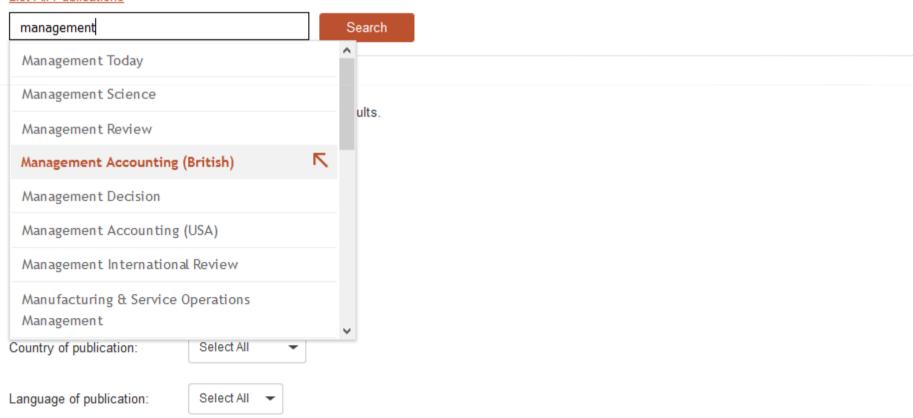








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Management Accounting (British) Title:

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Frequency: Monthly English Language: Audience: Trade

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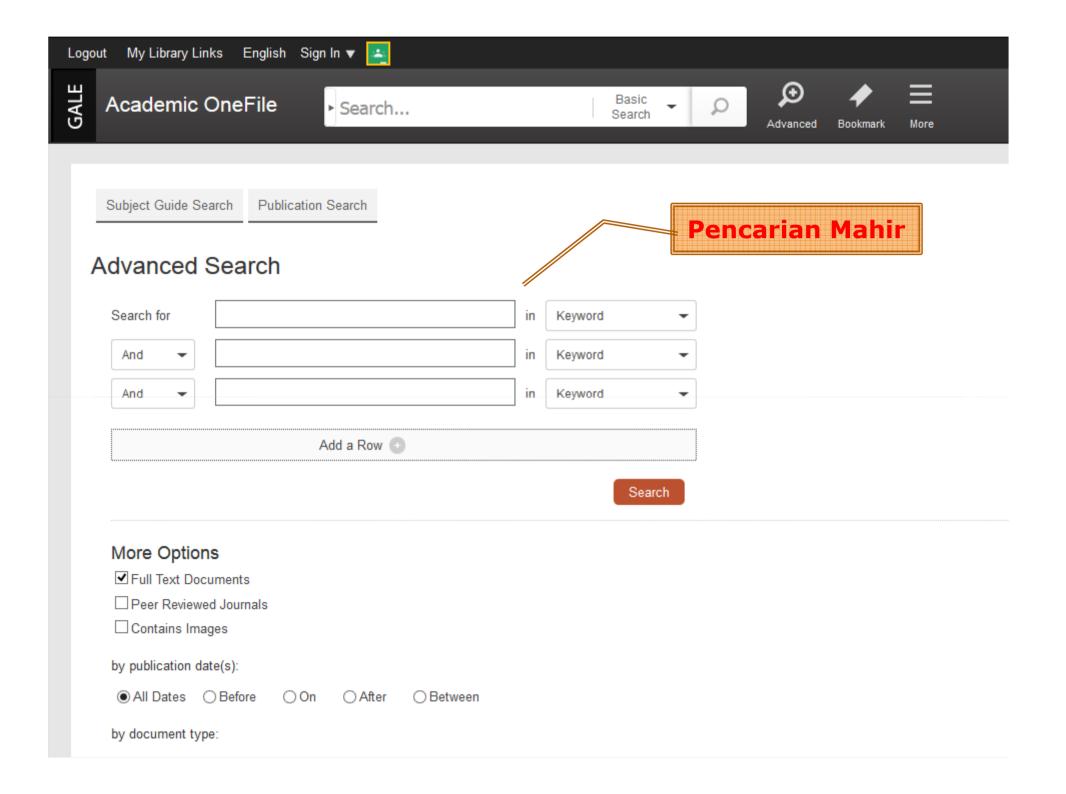
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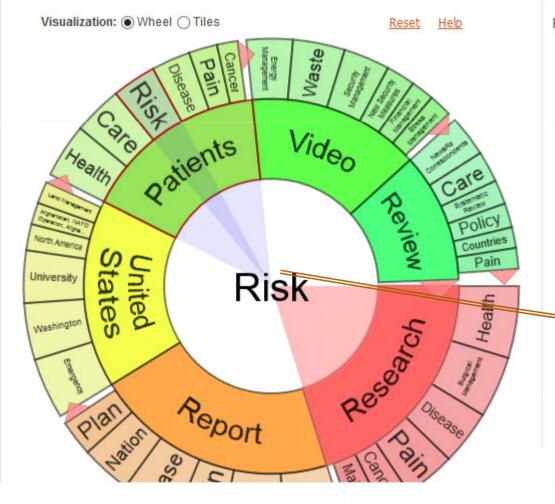
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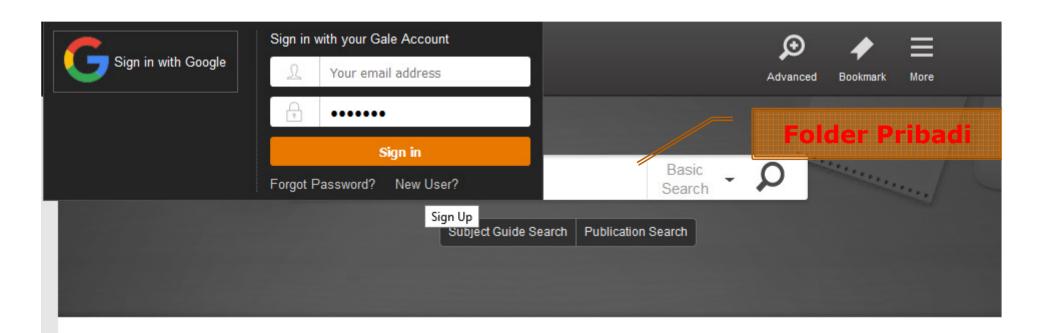
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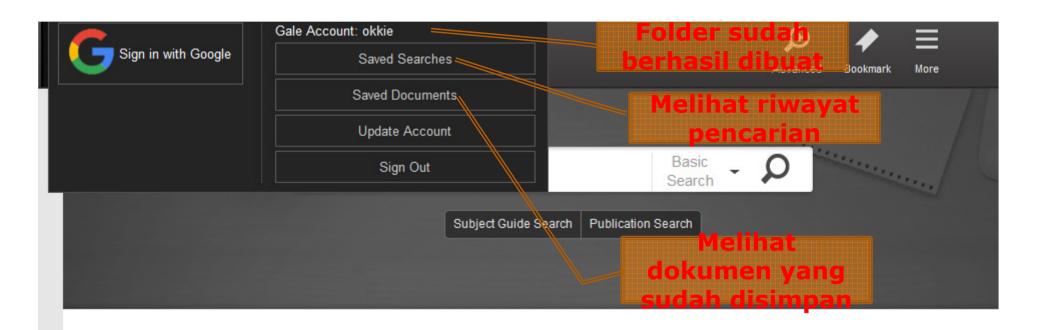




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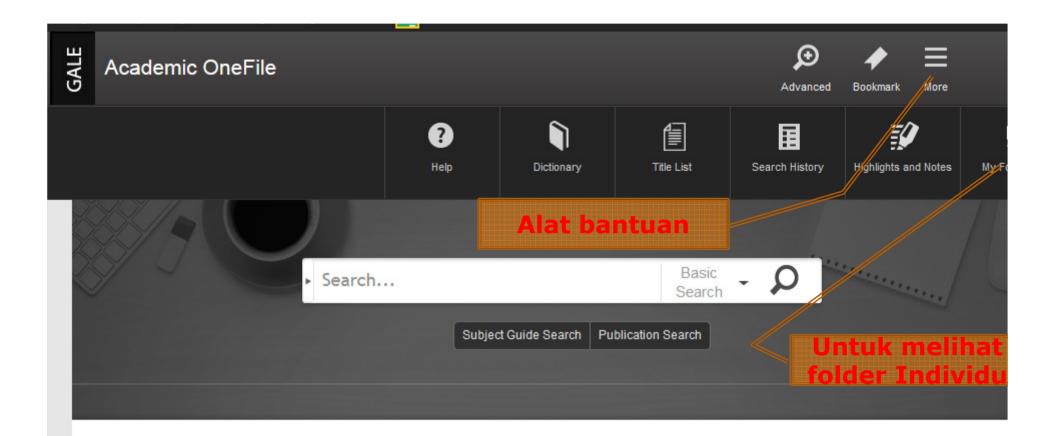


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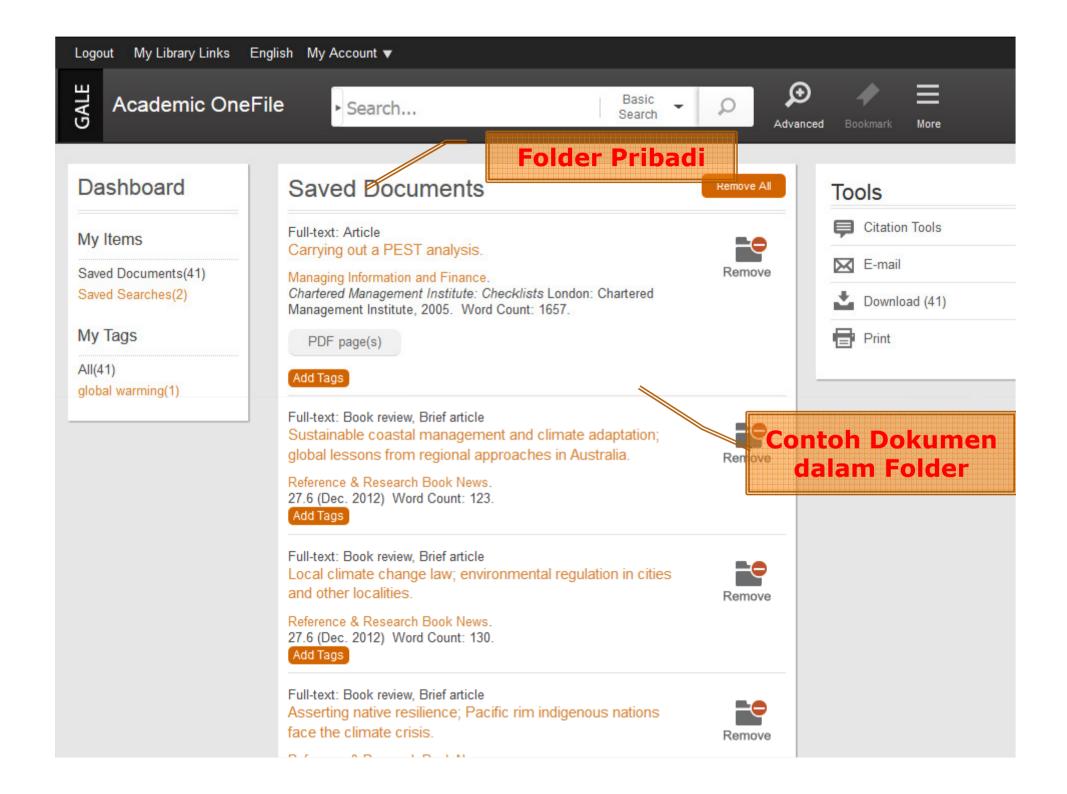
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