

**DIVERSITY AND ABUNDANCE OF PEST MITES (ACARI: TETRANYCHIDAE)
ON PAPAYA IN TANAH LAUT AND BANJARBARU CITY, SOUTH
KALIMANTAN, INDONESIA**

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ABSTRACT

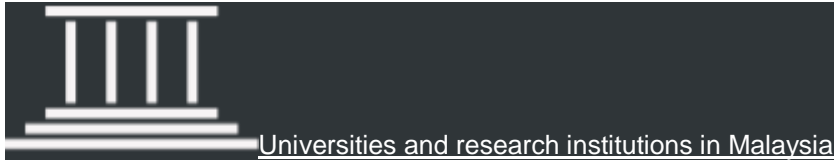
Information on the diversity and abundance of mites on papaya in South Kalimantan is still limited and needs further study. Thus, a study was conducted in Banjarbaru and Tanah Laut, South Kalimantan, Indonesia on three varieties of papayas (California, Hawaii, and Merah Delima). Four species of mites that attacked papayas in Banjarbaru were identified as *Tetranychus piercei*, *Aculops pelekassi*, *Brevipalpus phoenicis*, and *Eutetranychus africanus*, while in Tanah Laut *T. piercei* and *E. africanus*. *Tetranychus piercei* with 2557 individuals was the most abundant at both locations. *Tetranychus piercei* was found to be in the highest number observed on papayas varieties, while *A. pelekassi* was found on Hawaii varieties with 13 individuals, *E. africanus* on California varieties with nine individuals, and *B. phoenicis* with only eight individuals on Hawaiian varieties. The diversity index value (H') of mites at the research areas was low ($H' < 1.5$) indicated the communities formed were less stable ($H' < 1$) probably under pressure. The species dominance index (C) value was significantly close to 1 (≥ 0.5), and indicative of certain species dominated (in this study was *T. piercei*) at the two research sites. The results of this research could provide important information about mites and be useful as the first step in developing effective pest control strategies.

Keywords: Mites, papaya varieties, diversity index, South Kalimantan

Serangga

COUNTRY

[Malaysia](#)



SUBJECT AREA AND CATEGORY

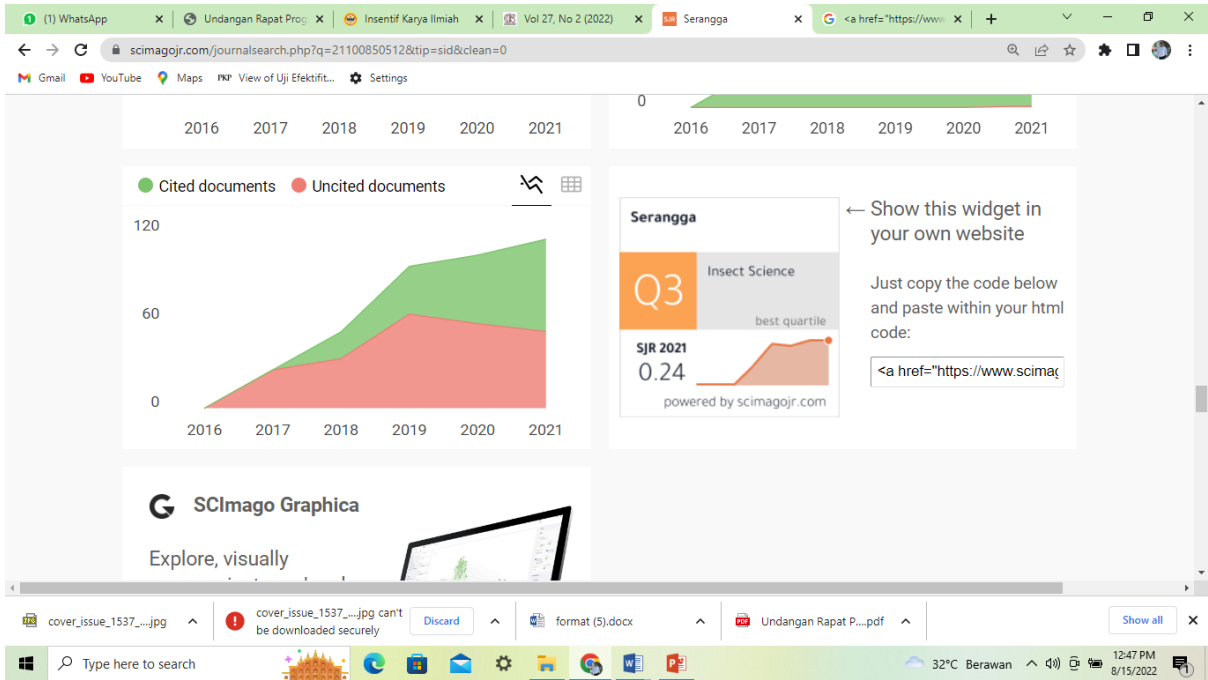
- [Agricultural and Biological Sciences](#)
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PUBLISHER

[Universiti Kebangsaan Malaysia Press](#)

H-INDEX

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The screenshot shows the Scimago Journal Rank interface for Malaysia (MY). The table lists journals ranked from 24 to 30. Each row includes the journal name, type, SJR score, and various metrics. The SJR scores are highlighted with 'Q2' or 'Q3' badges. The table is as follows:

Rank	Journal Name	Type	SJR Score	Q	2016	2017	2018	2019	2020	2021	2022	Country	
24	Sains Malaysiana	journal	0.263	Q2	34	320	964	12236	1182	964	1.10	38.24	MY
25	Journal of Mechanical Engineering	journal	0.246	Q3	15	39	377	1040	325	377	0.59	26.67	MY
26	Serangga	journal	0.244	Q3	6	62	106	2338	109	105	1.08	37.71	MY
27	Journal of Engineering Science and Technology	journal	0.243	Q3	30	384	1003	11154	999	1003	0.96	29.05	MY
28	Malaysian Orthopaedic Journal	journal	0.243	Q3	9	84	173	1420	158	153	0.88	16.90	MY
29	Asian Journal of Business and Accounting	journal	0.241	Q3	13	12	65	710	58	60	0.79	59.17	MY
30	Jurnal Komunikasi: Malaysian Journal of Communication	journal	0.240	Q3	10	88	308	4154	267	307	0.87	47.20	MY



Tanaecia triqerta
(Lepidoptera: Rhopalocera)
Photo credit: Refer et al. 2022