

Departemen Teknik Pertanian dan Biosistem

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Filter by publication year range: 2022 to 2026

Summary metrics

Entity: Departemen Teknik Pertanian dan Biosistem · Within: All subject areas (ASJC) · Year range: 2022 to 2026

· Data source: Scopus, up to 27 May 2026

104

Scholarly Output 

72.1% Open Access

21 ▼

Researchers

0.89

Field-Weighted Citation Impact



0.35

Field-Weighted
Citation Impact
Median

672

Citation Count 

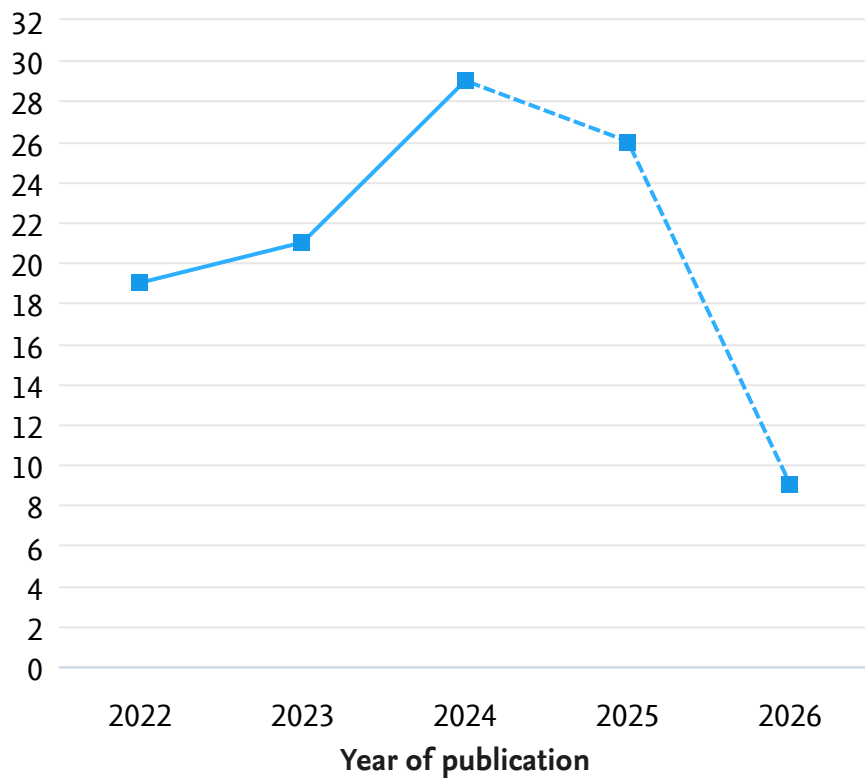
6.5

Citations per Publication 

Scholarly Output

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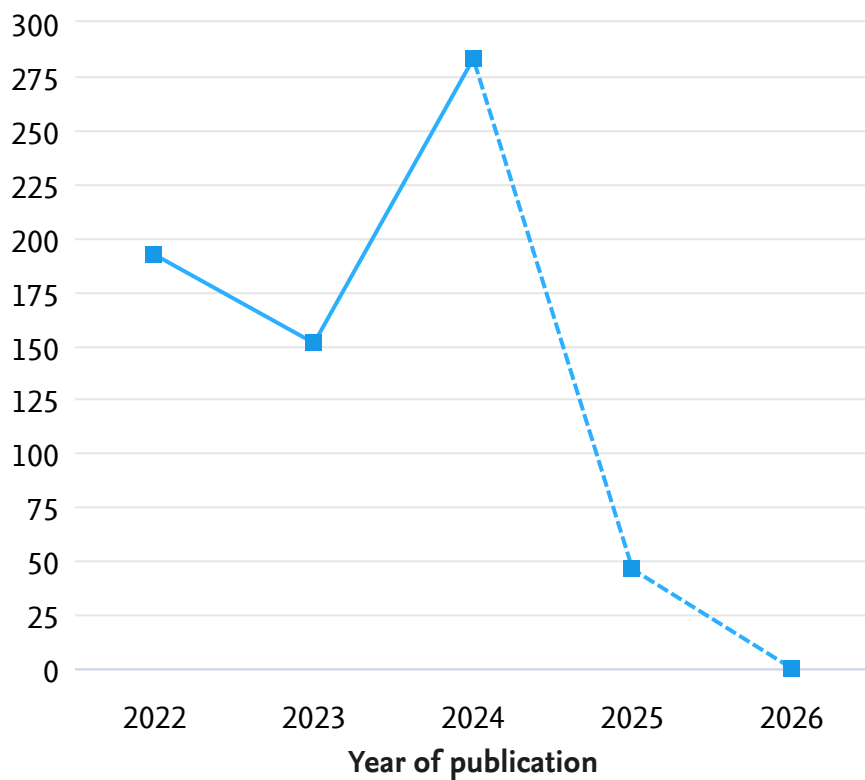
104

number of publications by authors
in Departemen Teknik Pertanian
dan Biosistem

▨ Incomplete year

Citation Count

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672

number of citations received by
publications in Departemen Teknik
Pertanian dan Biosistem

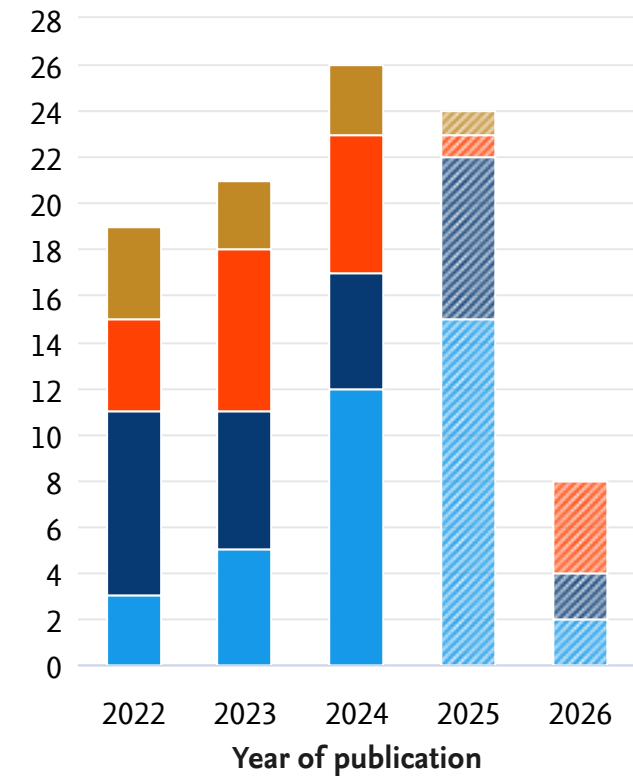
▨ Incomplete year

Publications by Journal quartile

Entity: Departemen Teknik Pertanian dan Biosistem · Within: All subject areas (ASJC) · Year range: 2022 to 2026

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Share of publications per Journal quartile by CiteScore Percentile



▨ Incomplete year

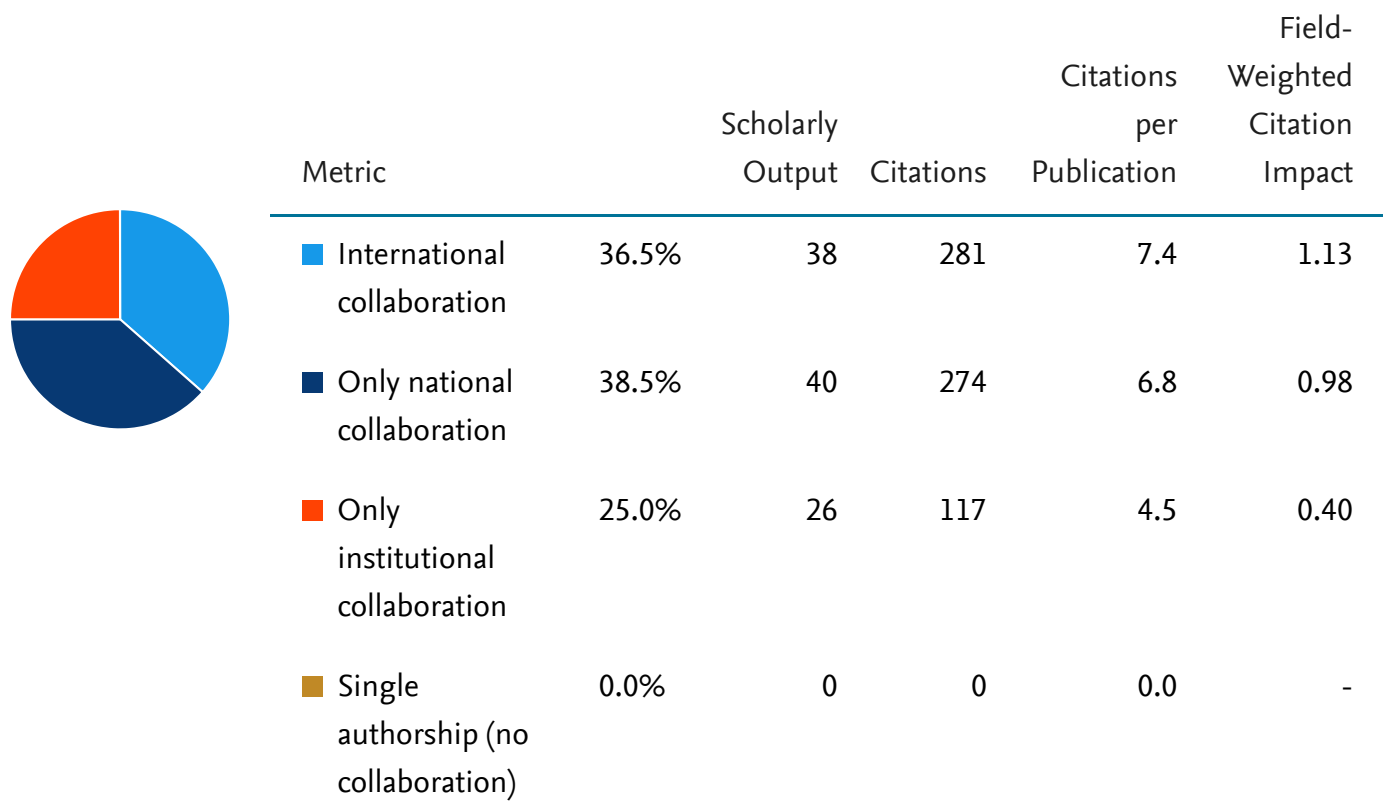
Quartiles	Publications	Publication share (%)
Q1 (top 25%)	37	37.8
Q2 (26% - 50%)	28	28.6
Q3 (51% - 75%)	22	22.4
Q4 (76% - 100%)	11	11.2
Cumulative shares	Publications	Publication share (%)
Q1 to Q2 (top 50%)	65	66.3
Q1 to Q3 (top 75%)	87	88.8

Geographical Collaboration - Overall

Entity: Departemen Teknik Pertanian dan Biosistem · Within: All subject areas (ASJC) · Year range: 2022 to 2026

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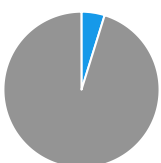
International, national and institutional collaboration by in Departemen Teknik Pertanian dan Biosistem in the selected year range.



Outputs in Top 10% Citation Percentiles summary

Entity: Departemen Teknik Pertanian dan Biosistem

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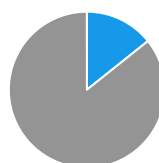


Departemen Teknik Pertanian dan Biosistem
4.8%

Publications in Top 10% Journal Percentiles by CiteScore Percentile

Entity: Departemen Teknik Pertanian dan Biosistem

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Departemen Teknik Pertanian dan Biosistem
14.3%

International Collaboration summary

Entity: Departemen Teknik Pertanian dan Biosistem

· Within: All subject areas (ASJC) · Year range:
2022 to 2026 · Data source: Scopus, up to 27 May
2026

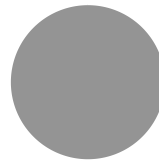


Departemen Teknik Pertanian dan
Biosistem
36.5%

Academic-Corporate Collaboration summary

Entity: Departemen Teknik Pertanian dan Biosistem

· Within: All subject areas (ASJC) · Year range:
2022 to 2026 · Data source: Scopus, up to 27 May
2026



Departemen Teknik Pertanian dan
Biosistem
0.0%

Publications with Highest FWCI

Entity: Departemen Teknik Pertanian dan Biosistem · Within: All subject areas (ASJC) · Year range: 2022 to 2026

· Data source: Scopus, up to 27 May 2026

Publication	Citations	Field-Weighted Citation Impact
<p>Faster-YOLO-AP: A lightweight apple detection algorithm based on improved YOLOv8 with a new efficient PDWConv in orchard. Liu, Z., Rasika D. Abeyrathna, R.M., Mulya Sampurno, R. and 2 more (2024) Computers and Electronics in Agriculture, 223.</p>	120	19.97
<p>Spatial-ecological approach in Cirebon's peri-urban regionalization. Dede, M., Asdak, C., Setiawan, I. (2022) IOP Conference Series: Earth and Environmental Science, 1089 (1).</p>	15	6.00
<p>Intrarow Uncut Weed Detection Using You-Only-Look-Once Instance Segmentation for Orchard Plantations. Sampurno, R.M., Liu, Z., Abeyrathna, R.M.R.D. and 1 more (2024) Sensors, 24 (3).</p>	35	4.47











Publications with Highest FWCI

Publication	Citations	Field-Weighted Citation Impact
<p>Optimization of Citrus aurantifolia peel extract encapsulation in alginate-gelatin hydrogel microbeads for antibacterial wound dressing applications.</p> <p>Julaeha, E., Puspita, W.R., Permadi, N. and 4 more (2024) Carbohydrate Polymer Technologies and Applications, 7.</p>	31	3.85
<p>Challenges in Orchard Weed Management: Perspectives on the Use of 3D Cameras and LiDAR to Develop a Low-Cost Small-Scale Robotic Weeder.</p> <p>Sampurno, R.M., Ahamed, T. (2024) IoT and AI in Agriculture: Smart Automation Systems for Increasing Agricultural Productivity to Achieve SDGs and Society 5.0, pp. 229-248.</p>	5	3.70

Topic Clusters

Entity: Departemen Teknik Pertanian dan Biosistem · Within: All subject areas (ASJC) · Year range: 2022 to 2026

· Data source: Scopus, up to 27 May 2026 · Filters: Top 10 Topic Clusters by Scholarly Output

Topic Cluster	By this Group of Researchers		Worldwide
	Scholarly Output	Field-Weighted Citation Impact	Prominence percentile
Spectroscopy and Imaging Techniques TC.540	9	0.82	79.529 
Image Segmentation, Deep Neural Networks and Object Detection TC.0	4	6.17	100.000 
Climate Change Impacts on Soil Moisture Dynamics TC.583	4	2.06	69.523 
Precision Agriculture through Robotics and Navigation TC.1271	4	1.16	47.874 
Biogas, Biochar, and Microbial Fuel Cells TC.69	3	0.10	98.954 
Antioxidant and Antimicrobial Properties of Essential Oils TC.275	3	0.66	87.901 
Genetic Insights into Crop Yield Enhancement TC.370	3	1.13	65.925 
Ionic Liquids in Catalysis and Extraction Processes TC.424	3	0.84	80.052 
Waste Management Strategies for Carbon Emission Reduction TC.447	3	0.43	91.694 
Conservation Strategies for Endangered Species Management TC.689	3	0.47	51.145 

Researchers

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Name	Scholarly Output	Most recent publication	Citations	<i>h</i> -index
1. Nanda, Muhammad Achirul	25	2026	117	9
2. Nurjanah, Sarifah	15	2025	180	10
3. Asdak, Chay	14	2025	75	11
4. Kendarto, Dwi Rustam	12	2025	36	5
5. Suryadi, E.	9	2025	52	9
6. Sampurno, Rizky Mulya	9	2026	189	5
7. Ciptaningtyas, Drupadi	9	2026	14	4
8. Rosalinda, S.	7	2025	20	4
9. Amaru, K.	6	2025	16	2
10. Firmansyah, I.	6	2026	7	3
11. Thoriq, Ahmad	5	2026	4	2
12. Dwiratna, Sophia	4	2025	8	5
13. Widyasanti, Asri	3	2025	7	5
14. Yusuf, Asep	3	2025	9	3
15. Bafdal, Nurpilihan	3	2023	20	9
16. Pratopo, Lukito Hasta	2	2026	1	1
17. Sugandi, Wahyu	2	2024	10	4
18. Prawiranegara, Boy Macklin Pareira	1	2026	0	1
19. Saukat, M.	1	2025	3	2
20. Muhaemin, M.	1	2025	2	3
21. Situmorang, Yogina Lestari Ayu	1	2023	1	1