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(Proceedings of National Academy of Science)

이용매뉴얼

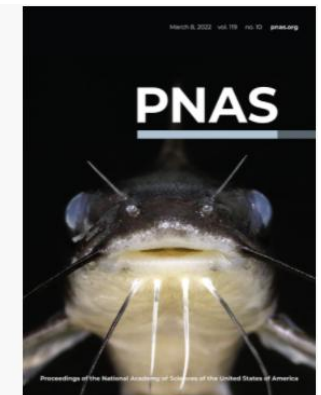
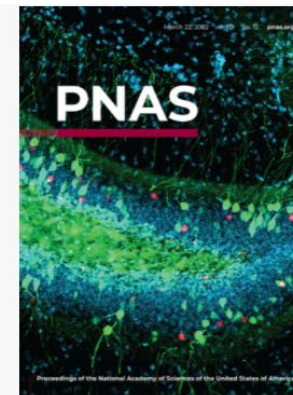
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March 29, 2022; vol. 119 no. 13

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최신 이슈 정보 제공

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Lynne Peoples

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April 12, 2022 | Vol. 119 | No. 15



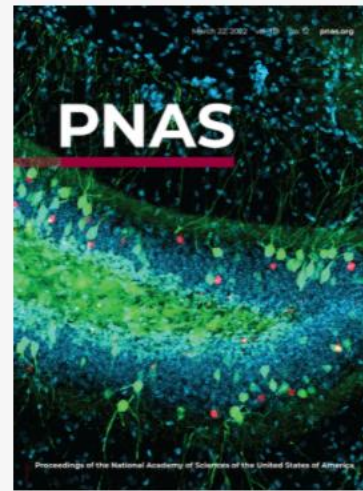
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March 22, 2022 | Vol. 119 | No. 12

원문 보기

PNAS A "more ammonium solution" to mitigate nitrogen pollution and boost crop yields

메인페이지 이동

아티클 유형, 토픽, OA 확인 및 SNS 공유가능

공유, 알람, 북마크, 인용, PDF 다운로드 제공

아티클 정보(저자, 출간일, DOI 정보 제공)

섹션별 이동 제공

PDF 원문 보기

저자 정보, Metrics, 열람 옵션, 레퍼런스, 시각자료, 공유 기능 미리보기 제공

PNAS
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Enter Ammonium
New Opportunities
Overcoming Limitations
Supporting Information
Footnote
References

Two of the world's great agricultural challenges require bold new approaches and could share a solution. Nitrogen (N) pollution, affecting water, air, and the climate, presents one massive challenge. Ninety percent of increased reactive N originates as synthetic fertilizer applied to agricultural fields or N fixed in them (1). Because crops take up only 47% of the total applied N, more than half is lost to the environment. Despite some recent regional improvements in nitrogen use efficiency, global nitrogen losses have not increased since 1980. Yet even if by 2050 the world increased nitrogen use efficiency 50% increases in food production would maintain N losses at present, unacceptable levels (3).

Metrics & Citations

Media

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Go to Figure Open in Viewer

Basic Search

The screenshot shows the PNAS search page with several key elements highlighted and annotated:

- Search Bar:** A search icon is highlighted with a red box and labeled "검색창 열기" (Open search bar).
- Search Input:** The search input field is highlighted with a red box and labeled "검색 키워드 입력" (Enter search keywords).
- Search Scope:** A dropdown menu for search scope is highlighted with a red box and labeled "검색 범위 설정" (Set search scope). The options shown are "Anywhere", "Anywhere", and "Citation".
- Advanced Search:** The "ADVANCED SEARCH" button is highlighted with a red box and labeled "상세 검색 바로가기 (다음 페이지 참조)" (Direct to detailed search (refer to next page)).
- Suggested Searches:** A row of suggested search terms is highlighted with a red box and labeled "추천 검색어" (Recommended search terms). The terms are "COVID-19", "DEMOGRAPHY", "SUSTAINABILITY", "CLIMATE CHANGE", and "MICROBIOME".

Below the search bar, the page displays the "Current Issue" information: MARCH 29, 2022 | VOL. 119 | NO. 13. At the bottom, there is a section for "THIS WEEK IN PNAS" with the date MARCH 29, 2022 and "FREE ACCESS", followed by "In This Issue".

Advanced Search

Advanced Search

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KEYWORD

e.g., Neuroscience

+

PUBLISHED IN:

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PUBLICATION DATE:

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You can use the Boolean Operators AND, OR, and NOT within search fields. By default, an AND relationship is assumed between search terms unless another operator is specified.

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To search for multiple authors, separate each author name with either AND or OR. Using AND will search for content that has been co-authored by the authors. Using OR will search for content that has been authored by either of the authors.

SEARCHING FOR PHRASES

Enclose your search term with quotation marks to search for an exact match of that phrase. Without quotation marks, articles including all of the search terms somewhere in the article will be listed. For example, searching for "civil war" will find articles containing that exact phrase.

WILDCARDS

Use a question mark (?) in a search term to represent any one character and use an asterisk (*) to represent zero or more characters. For example, searching for Europe* will find results containing Europe and European. Wildcards cannot be used at the start of a search term or when searching for phrases in quotes.

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Search for DOIs using the format

10.1073/pnas.2025764118 (do not add https://doi.org/)

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전체 콘텐츠, 타이틀, 저자, 키워드, 초록, 기관 Type 선택 검색 가능

검색 품목, 출판일/연도/범위, 전체/OA/이용가능 콘텐츠 설정 검색 가능

Search Results

추가 검색 proteomics **SEARCH >**
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검색 키워드, 재검색

출판 기간, 저자, 출판 품목, 키워드, 토픽, 아티클타입 필터링 가능

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