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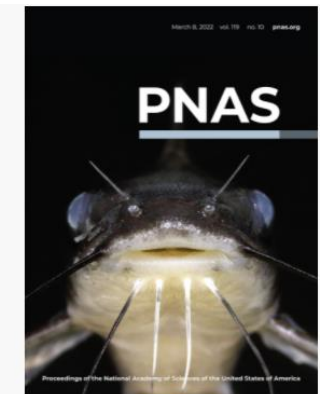
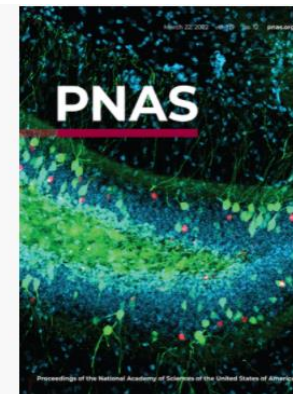
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March 29, 2022; vol. 119 no. 13

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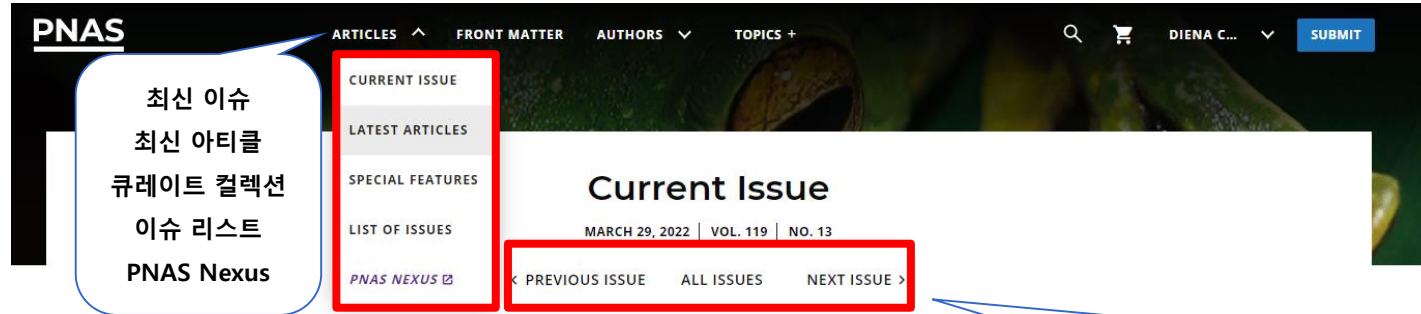
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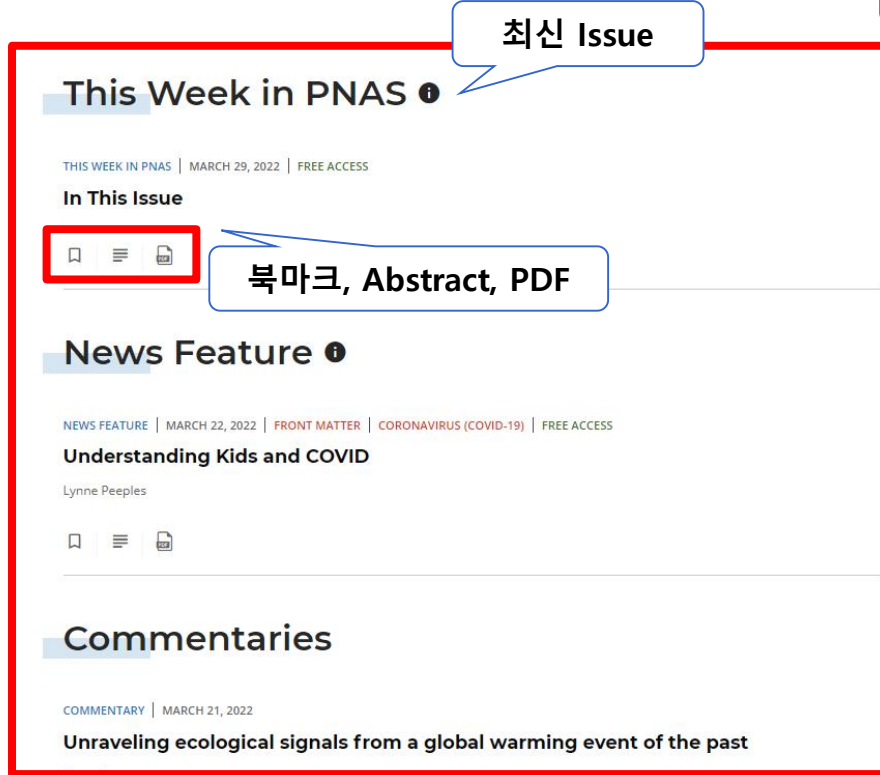


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이전이슈, 전체이슈, 다음이슈 보기



최신 Issue

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Lynne Peoples

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COMMENTARY | MARCH 21, 2022

Unraveling ecological signals from a global warming event of the past



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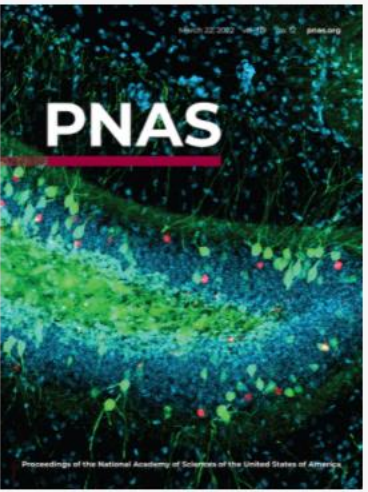
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원문 보기

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)

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f t in

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

G. V. Subbarao and Timothy D. Searchinger | Authors info & Affiliations

May 26, 2021 | 118 (22) e2107576118 | <https://doi.org/10.1073/pnas.2107576118>

섹션별 이동 제공

PDF 원문 보기

PNAS
Vol. 118 | No. 22

- Enter Ammonium
- New Opportunities
- Overcoming Limitations
- Supporting Information
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- 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 N 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).

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

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We can address pollution and boost crop yields by exploiting new tools that keep a higher share of soil nitrogen as ammonium while selecting and breeding crops to exploit an ammonium/nitrate balance. Nitrification-inhibiting traits discovered in some tropical grasses can be enhanced in cereal crops too. Image credit: Flickr/CIAT.

Go to Figure Open in Viewer

Basic Search

The screenshot shows the PNAS search page with several key elements highlighted by red boxes and annotated with Korean text in speech bubbles:

- Search Icon:** A magnifying glass icon in the top right navigation bar, annotated with "검색창 열기" (Open search bar).
- Search Input:** A large text input field with the placeholder "Enter text / DOI / keywords / authors / etc", annotated with "검색 키워드 입력" (Enter search keywords).
- Search Scope:** A dropdown menu labeled "SEARCHING:" with options "Anywhere" and "Citation", annotated with "검색 범위 설정" (Set search scope).
- Advanced Search:** A button labeled "ADVANCED SEARCH" next to a "SEARCH" button, annotated with "상세 검색 바로가기 (다음 페이지 참조)" (Direct link to detailed search (see next page)).
- Suggested Searches:** A row of buttons for "COVID-19", "DEMOGRAPHY", "SUSTAINABILITY", "CLIMATE CHANGE", and "MICROBIOME", annotated with "추천 검색어" (Recommended search terms).

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

Advanced Search

Advanced Search

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Search Tips

BOOLEAN SEARCHES

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.

SEARCHING FOR AUTHORS

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

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