

# สื่อสารองค์กร 4 ตุลาคม 2566

## งานวิจัยและนวัตกรรม

1. การรับส่งเอกสารงานวิจัยทาง e-doc
2. แนวปฏิบัติโครงการที่ขับเคลื่อนยุทธศาสตร์
3. งานวิจัยสำหรับ page Research and Academic Service ของคณะ
4. SDGs key phrases / key words
5. International Conference – Innovation of Resilient Agriculture 2024

# การรับส่งเอกสารงานวิจัยทาง e-doc

## ระบบ CMU E-Document งานบริหารงานวิจัย แบบหนังสือใช้งาน กำหนดลำดับผู้ตรวจสอบ/สั่งการ





# 13 AGENDAS

แนวปฏิบัติ  
โครงการที่  
ขับเคลื่อน  
ยุทธศาสตร์

**A1: BIOPOLIS ECOSYSTEM**

**A2 : CARBON NEUTRAL  
UNIVERSITY**

**A3 : INTELLIGENCE  
UNIVERSITY**

**A4 : ENTREPRENEURIAL  
UNIVERSITY**

**A5 : MEDICAL & HEALTH  
INNOVATION DISTRICT**

**A6 : CREATIVE DISTRICT &  
BRANDING**

**A7 : EDUCATION PLATFORM**

**A8 : RESEARCH AND  
DEVELOPMENT**

**A9 : INNOVATION  
MECHANISMS DEVELOPMENT**

**A10 : SOCIAL ENGAGEMENT**

**A11 : PM2.5 RELATED NCDS**

**A12 :AGILE & RESILIENT  
ORGANIZATION**

**A13 :HUMAN RESOURCE  
CAPACITY DEVELOPMENT**

แนวปฏิบัติ  
โครงการที่  
ขับเคลื่อน  
ยุทธศาสตร์



**Research and Academic service**

The image shows a Facebook profile page for the 'Research and Academic Services, Faculty of Agriculture, CMU'. The page layout includes a top navigation bar with icons for home, video, marketplace, groups, and a menu. The main content area features a cover photo of a large, modern university building with a central tower and a logo on the facade. Below the cover photo is the profile picture, which is a circular logo containing the text 'Agri-cmu' and a large orange letter 'R'. The profile name is 'Research and Academic Services, Faculty of Agriculture, CMU', and it shows '950 likes • 1.2K followers'. On the right side, there are three buttons: 'Learn more' (blue), 'Liked' (grey), and 'Message' (grey). At the bottom, there is a navigation bar with tabs for 'Posts', 'About', 'Mentions', 'Reviews', 'Followers', 'Photos', and 'More'.





# งานวิจัยและนวัตกรรม

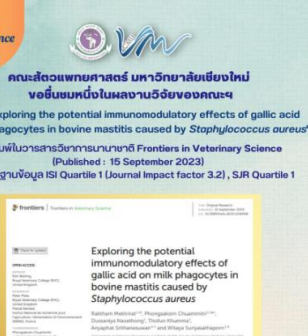
งานวิจัยและนวัตกรรม



ขอเชิญเสด็จกุศลของพระบาทสมเด็จพระนางเจ้ารำไพพรรณี พระบรมราชินีในวโรกาสที่พระบาทสมเด็จพระเจ้าอยู่หัว ทรงพระกรุณาโปรดเกล้าฯ ให้ **สมเด็จพระกนิษฐาธิราชเจ้า กรมสมเด็จพระเทพรัตนราชสุดาฯ สยามบรมราชกุมารี** เสด็จพระราชดำเนินแทนพระองค์พระราชทานปริญญาบัตร (ครั้งที่ ๔๐) แก่ผู้สำเร็จการศึกษาจากมหาวิทยาลัยเชียงใหม่ ประจำปีการศึกษา ๒๕๖๕



มหาวิทยาลัยเชียงใหม่  
**ได้รับผลการประเมิน ITA**  
ตามเกณฑ์การประเมินใหม่ของสำนักงาน ป.ป.ช. ประจำปีงบประมาณ พ.ศ. 2566  
ในระดับ **ผ่าน** ด้วยคะแนน **87.11**  
กรมประเมินคุณธรรมและความโปร่งใสในการดำเนินงานของหน่วยงานภาครัฐ (Integrity and Transparency Assessment : ITA)  
**มช. ได้รับมาตรฐานผลการดำเนินงาน ITA**  
11 สิงหาคม 2566  
ศูนย์สื่อสารองค์กรและนักศึกษาเก่าสัมพันธ์



Journal  
**Frontiers in Veterinary Science**  
ISI / SJR Q1  
**คณะสัตวแพทยศาสตร์ มหาวิทยาลัยเชียงใหม่**  
**ขอชื่นชมหนึ่งในผลงานวิจัยของคณะฯ**  
เรื่อง "Exploring the potential immunomodulatory effects of gallic acid on milk phagocytes in bovine mastitis caused by *Staphylococcus aureus*"  
ได้ตีพิมพ์ในวารสารวิชาการนานาชาติ Frontiers in Veterinary Science (Published : 15 September 2023)  
ซึ่งอยู่ในฐานข้อมูล ISI Quartile 1 (Journal Impact factor 3.2), SJR Quartile 1



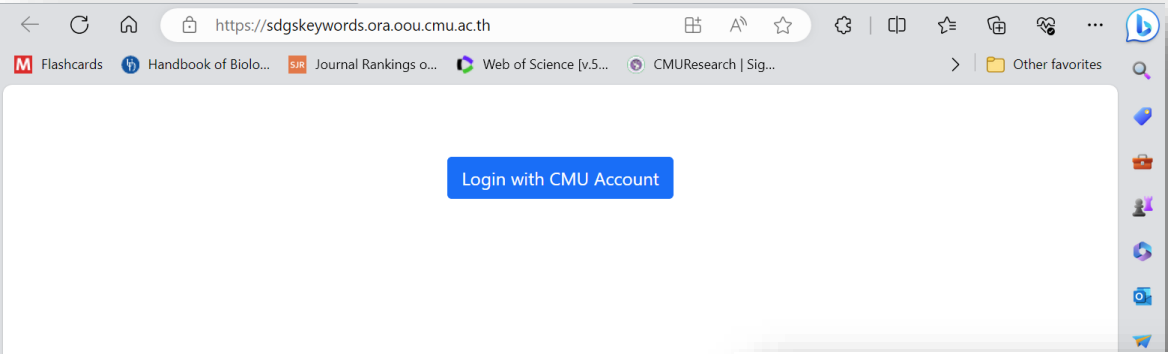
# SDGs key word

คู่มือการใช้ SDGs Keyword mapping

<https://ora.oou.cmu.ac.th/sdgskeywordmapping/>

เข้าใช้งานระบบ โดย login ผ่าน CMU Account  
อีเมลมหาวิทยาลัย @cmu

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Title

Input title here

Abstract

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Keywords

Keyword1, keyword2

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*Agronomy* • Open Access • Volume 13, Issue 3 • March 2023 • Article number 788

Document type  
Article • Gold Open Access • Green Open Access

Source type  
Journal

ISSN  
20734395

DOI  
10.3390/agronomy13030788

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## Genotypic Variation in Thai Fragrant Rice in Response to Manganese Application and Its Effects on 2-Acetyl-1-Pyrroline Content, Productivity and Gene Expression

Inpradit, Worawat<sup>a</sup>; Jamjod, Sansanee<sup>a, b</sup>; Prom-u-thai, Chanakan<sup>a, b</sup>;  
Pusadee, Tonapha<sup>a, b</sup>

<sup>a</sup> Department of Plant and Soil Sciences, Faculty of Agriculture, Chiang Mai University, Chiang Mai, 50200, Thailand  
<sup>b</sup> Lanna Rice Research Center, Chiang Mai University, Chiang Mai, 50200, Thailand

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Co-functioning of 2AP precursor amino acids enhances 2-acetyl-1-pyrroline under salt stress in aromatic rice (*Oryza sativa* L.) cultivars  
Renuka, N., Barikar, V.T., Ansari, Z. (2022) *Scientific Reports*

Selenium applications enhance 2-acetyl-1-pyrroline biosynthesis and yield formation of fragrant rice  
Luo, H., He, L., Lai, R. (2021) *Agronomy Journal*

Exogenous proline induces regulation in 2-acetyl-1-pyrroline (2-AP) biosynthesis and quality characters in fragrant rice (*Oryza sativa* L.)  
Luo, H., Zhang, T., Zheng, A. (2020) *Scientific Reports*

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Abstract

Author keywords

Reaxys Chemistry database information

Sustainable Development Goals 2023

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Abstract  
The fragrance in rice plays a significant role in consumer decisions and is influenced by many environmental factors, e.g., water and fertilizer application during cultivation management. Manganese (Mn) is an essential micronutrient for plant growth and its effects on the fragrance and yield of fragrant rice varieties have not been fully understood. The aim of this research was to determine the effects of Mn application rate on 2-acetyl-1-pyrroline (2AP) content, yield and gene expression of Thai fragrant rice varieties, i.e., BNM4, KDML105 and KH-CMU, were grown in pots with varying Mn application rates of 150, 200 and 250 mg kg<sup>-1</sup> soil—and compared with a control with no Mn application. At maturity, the grain yield was evaluated, and the 2AP was analyzed with GC-MS. The results showed that Mn application increased the 2AP content of fragrant rice and its productivity and tenfold increase in the 2AP content of fragrant rice and its productivity and tenfold increase in the 2AP content of fragrant rice and its productivity and tenfold increase in the 2AP content of fragrant rice and its productivity and tenfold increase in the 2AP content of fragrant rice and its productivity. However, it is important to conduct further studies to evaluate the effect of Mn application on the fragrance and additional gene expression, including the determination of the optimal Mn application rate for fragrant rice varieties.

## Genotypic Variation in Thai Fragrant Rice in Response to Manganese...

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Abstract

Author keywords

Reaxys Chemistry database information

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Decent work and economic growth  
Goal 8

SciVal Topics i

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Sustainability (Switzerland) • Open Access • Volume 15, Issue 14 • July 2023 • Article number 10842

Document type  
Article • Gold Open Access

Source type  
Journal

ISSN  
20711050

DOI  
10.3390/su151410842

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# Vernonia amygdalina Extract Loaded Microspheres for Controlling Phytophthora palmivora

Chainanta, Jiratchaya<sup>a</sup>; Yakajay, Kittiporn<sup>b</sup>; Chinda, Chanakarn<sup>b</sup>; Intaparn, Phikul<sup>b</sup>; To-anun, Chaiwat<sup>c</sup>; Tipduangta, Pratchaya<sup>b</sup>; Sirithunyalug, Busaban<sup>b</sup>; Haituk, Sukanya<sup>a</sup>; Nguanhom, Jeerapa<sup>c</sup>; Pusadee, Tonapha<sup>d</sup>; Karunarathna, Anuruddha<sup>a</sup>; Cheewangkoon, Ratchadawan<sup>a</sup>

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<sup>a</sup> Department of Entomology and Plant Pathology, Faculty of Agriculture, Chiang Mai University, Chiang Mai, 50200, Thailand  
<sup>b</sup> Department of Pharmaceutical Sciences, Faculty of Pharmacy, Chiang Mai University, Chiang Mai, 50200, Thailand  
<sup>c</sup> Faculty of Agricultural Technology, Chiang Mai Rajabhat University, Chiang Mai, 50200, Thailand  
<sup>d</sup> Department of Plant and Soil Science, Faculty of Agriculture, Chiang Mai University, Chiang Mai, 50200, Thailand

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Metalaxyl resistance of phytophthora palmivora causing durian diseases in Thailand  
Kongtragoul, P., Ishikawa, K., Ishii, H. (2021) *Horticulturae*

In vitro fungicidal effect of chitosan with different molecular weights on fungicide-resistant Phytophthora fruit rot on durian from the export market  
Kongtragoul, P. (2018) *Acta Horticulturae*

Antitumorogenic potential activity of free and nanoencapsulated Passiflora serratedigitata L. extracts  
Strasser, M., Noriega, P., Löbenberg, R. (2014) *BioMed Research International*

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SciVal Topics

Abstract  
The adverse effects of modern fungicide consumption have caused many issues in the agroecosystem. Hence, under sustainable agriculture concepts, it is important to research alternatives to the currently used fungicide. The use of secondary metabolite-containing herb extracts for treating plant diseases has become the latest trend in sustainable and green agriculture. However, the poor solubility and volatile nature of many compounds cause practical issues when using them in the field. Hence, bioactive compound delivery through nano- or micro-particles has become a successful technique to improve the solubility and delivery of



scopus.com/record/display.uri?eid=2-s2.0-85166589295&origin=resultslist&sort=plf-f#sustainable-development-goals

# Vernonia amygdalina Extract Loaded Microspheres for Controlling...

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Metrics

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Sustainable Development Goals mapped to this document

Zero hunger Goal 2	Decent work and economic growth Goal 8	Responsible consumption and production Goal 12
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SciVal Topics i

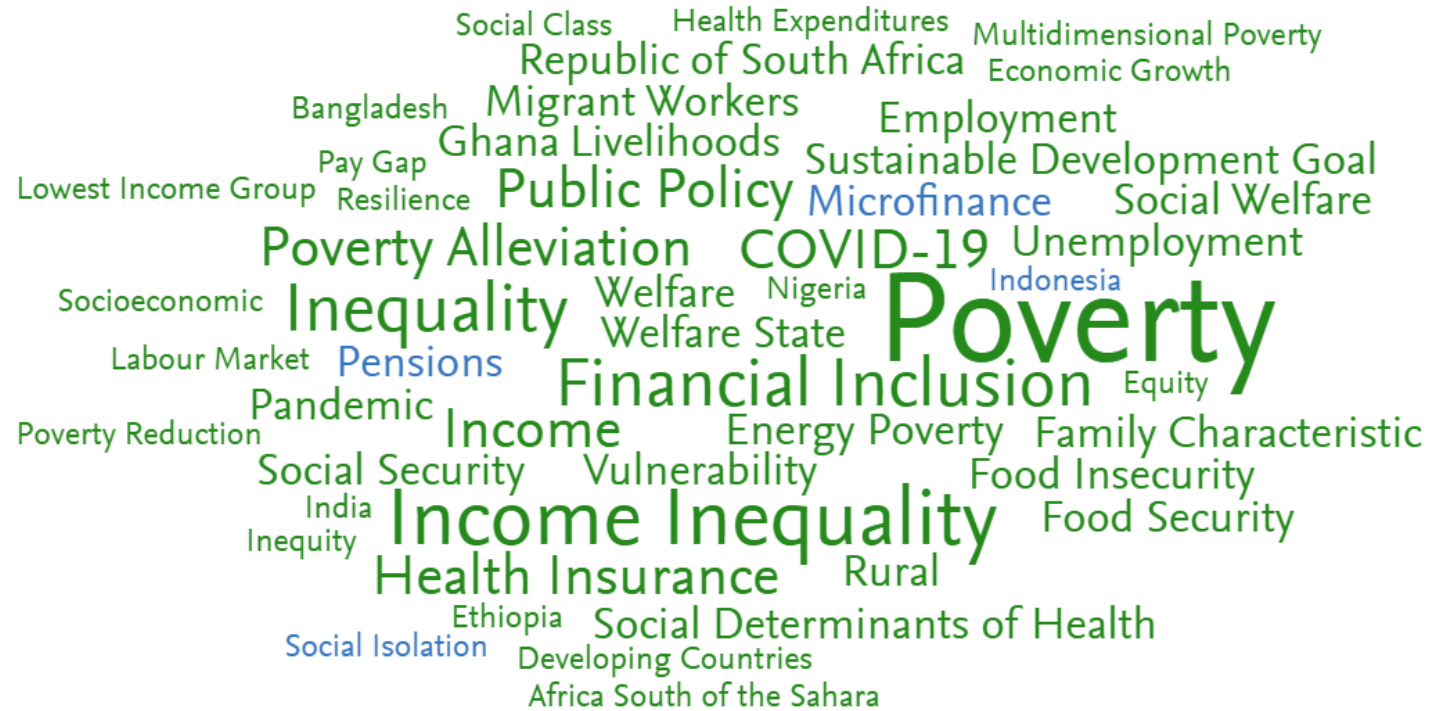
Metrics

Funding details





Top 50 keyphrases by relevance, based on 60,230 publications







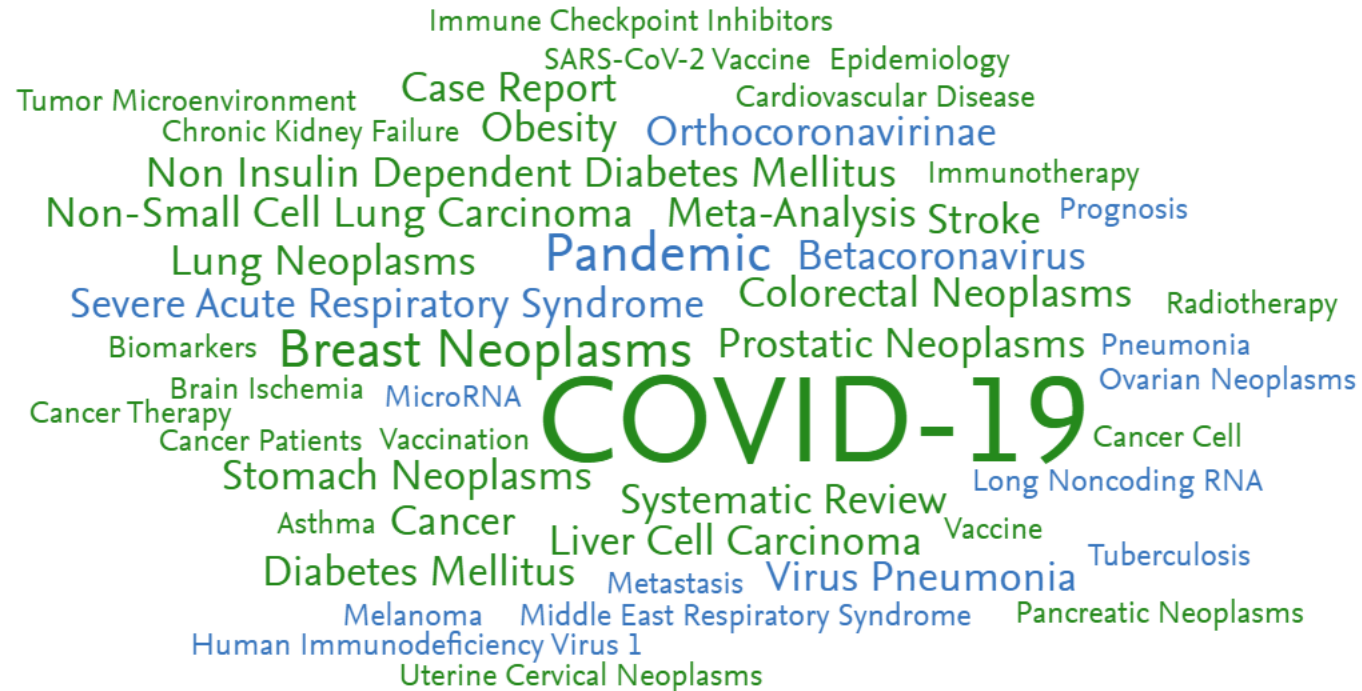
Top 50 keyphrases by relevance, based on 171,860 publications

02  
ZERO HUNGER





Top 50 keyphrases by relevance, based on 1,962,500 publications



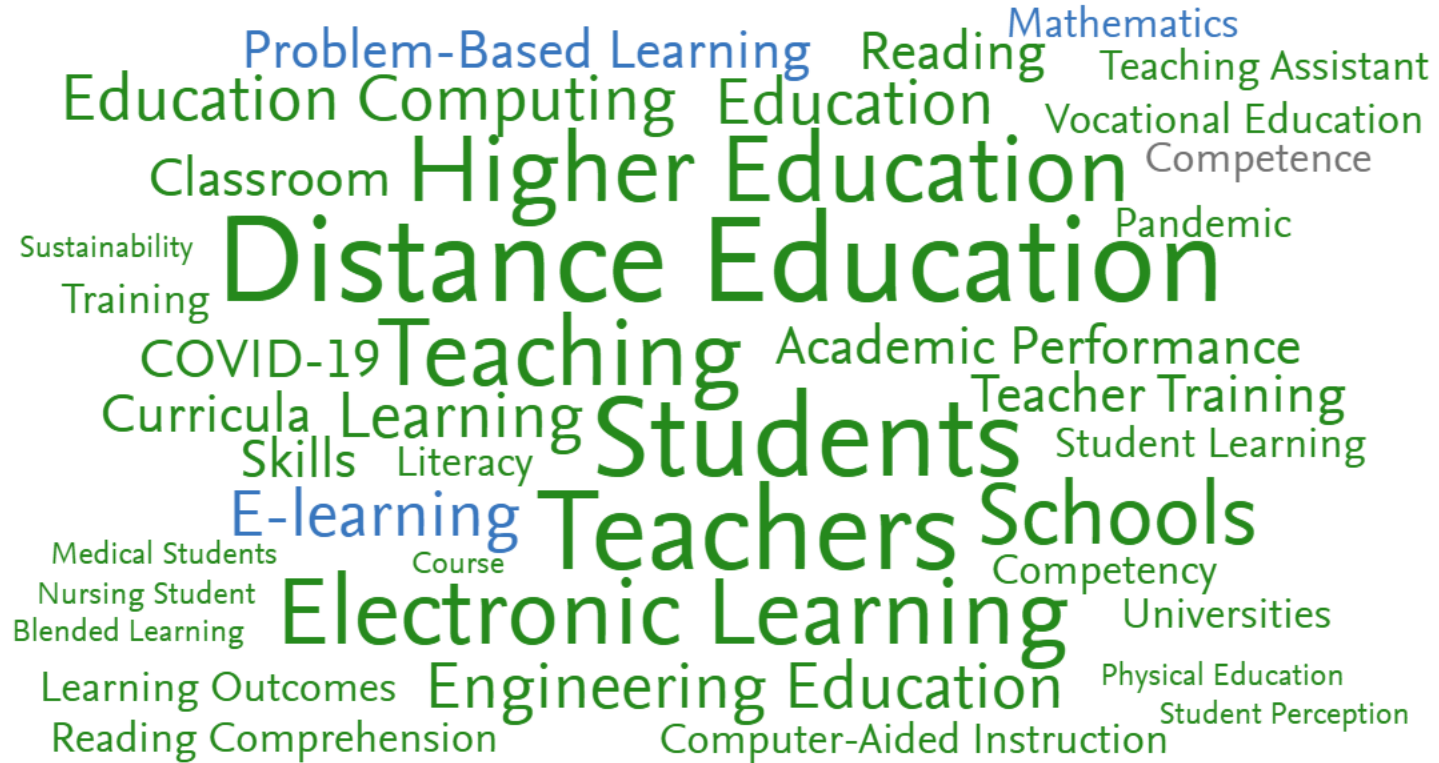
03

GOOD HEALTH AND WELL-BEING





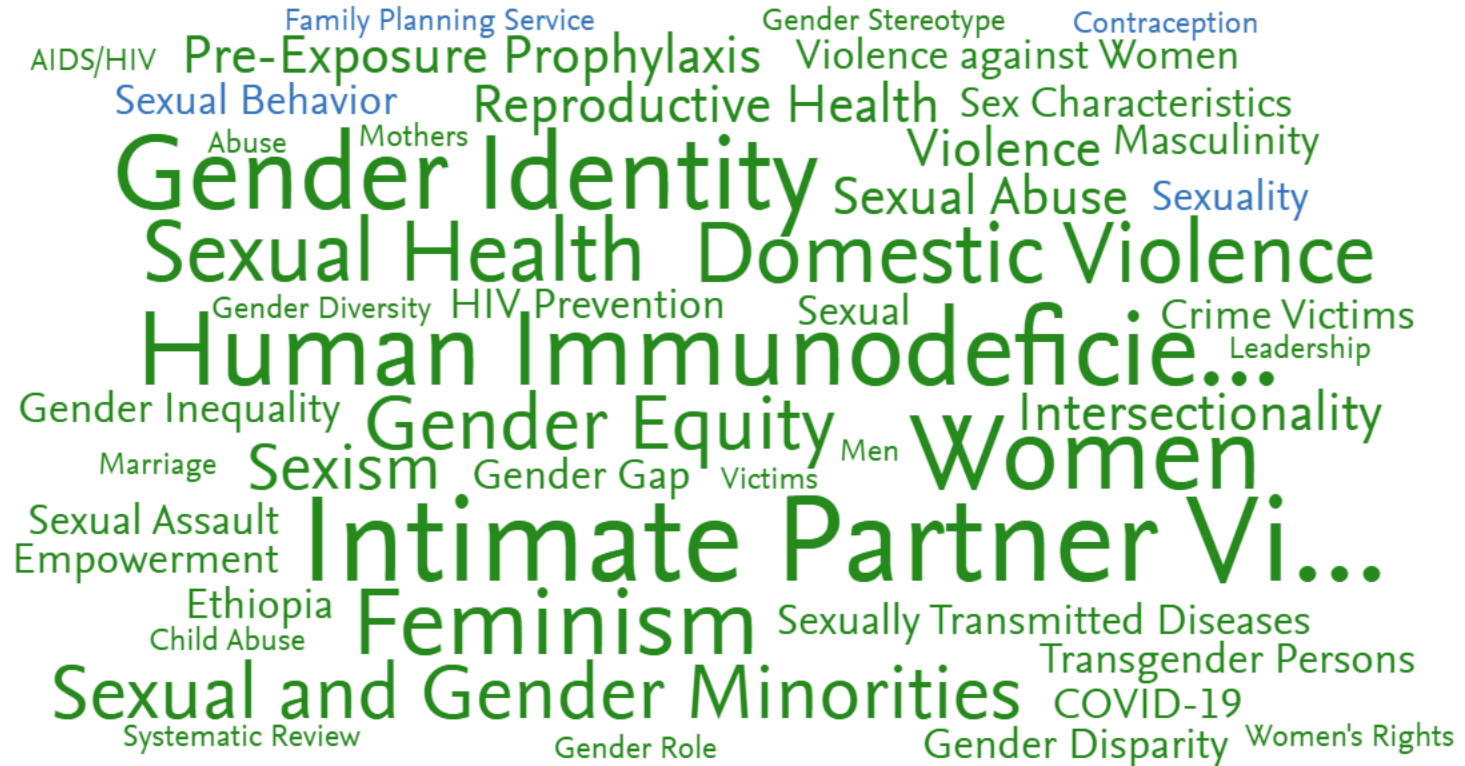
Top 50 keyphrases by relevance, based on 188,492 publications







Top 50 keyphrases by relevance, based on 106,319 publications



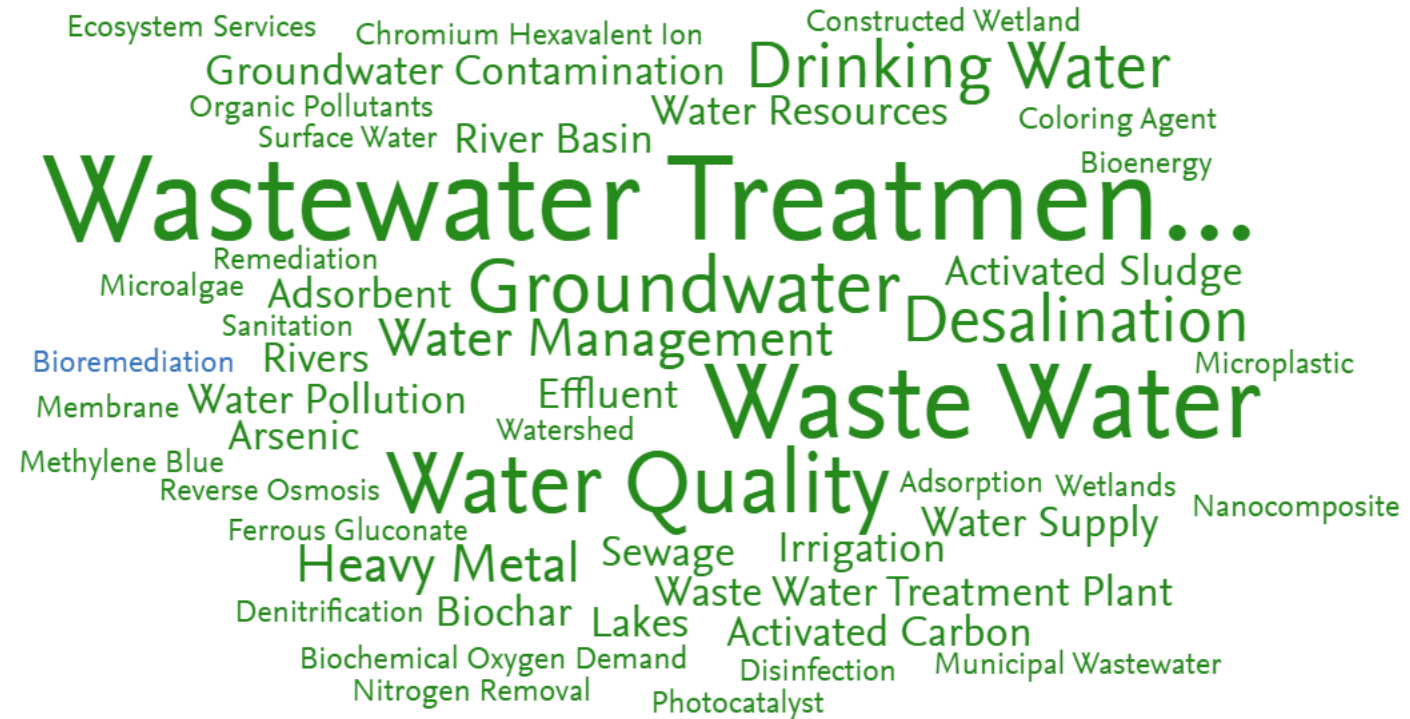
05

GENDER EQUALITY





Top 50 keyphrases by relevance, based on 227,496 publications



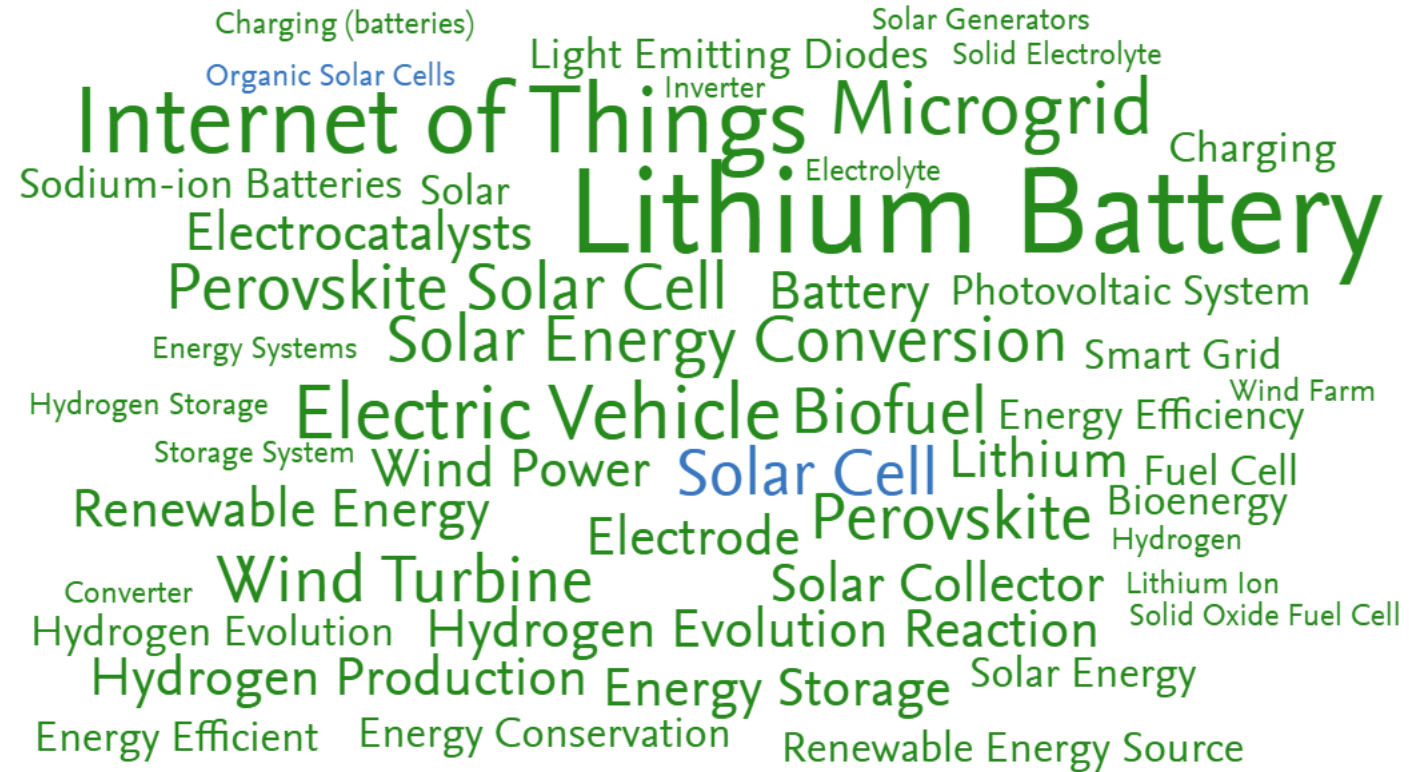
06

CLEAN WATER AND SANITATION





Top 50 keyphrases by relevance, based on 582,035 publications



07

AFFORDABLE AND CLEAN ENERGY







Top 50 keyphrases by relevance, based on 207,314 publications



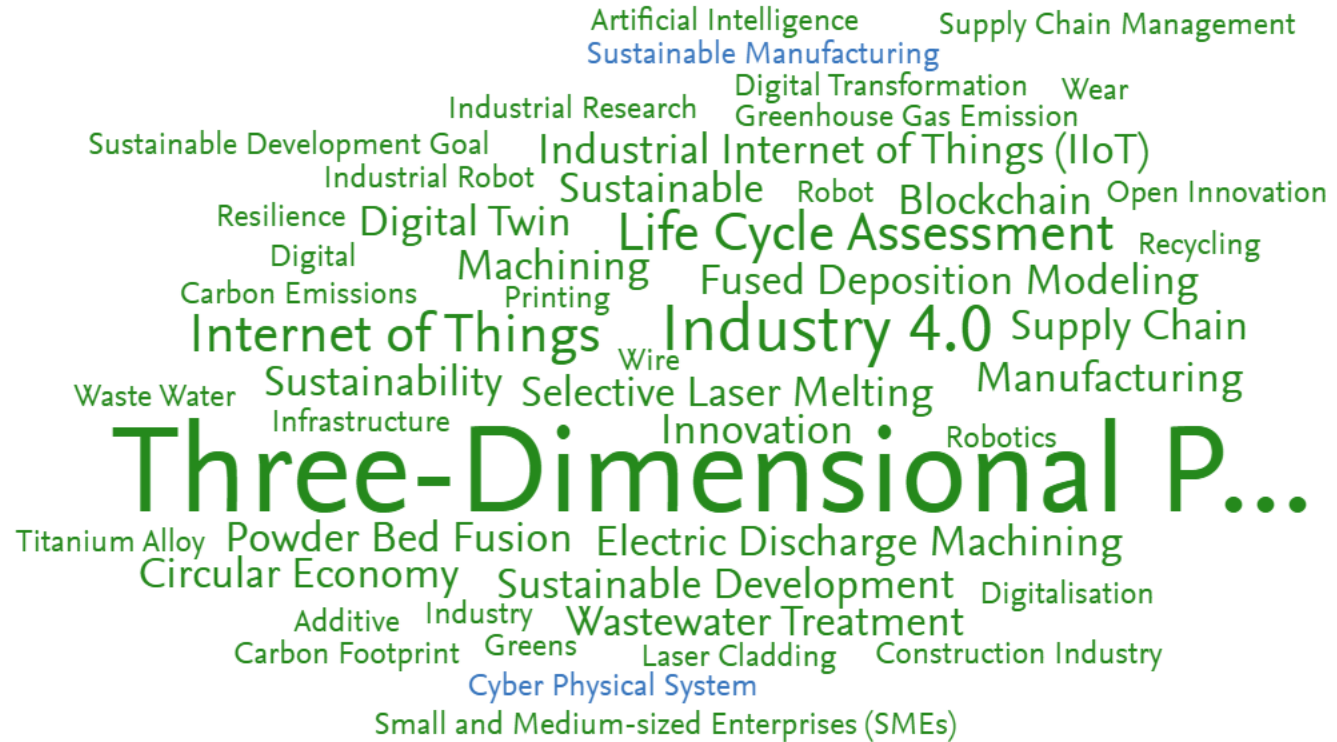
08

DECENT WORK AND ECONOMIC GROWTH





Top 50 keyphrases by relevance, based on 359,003 publications



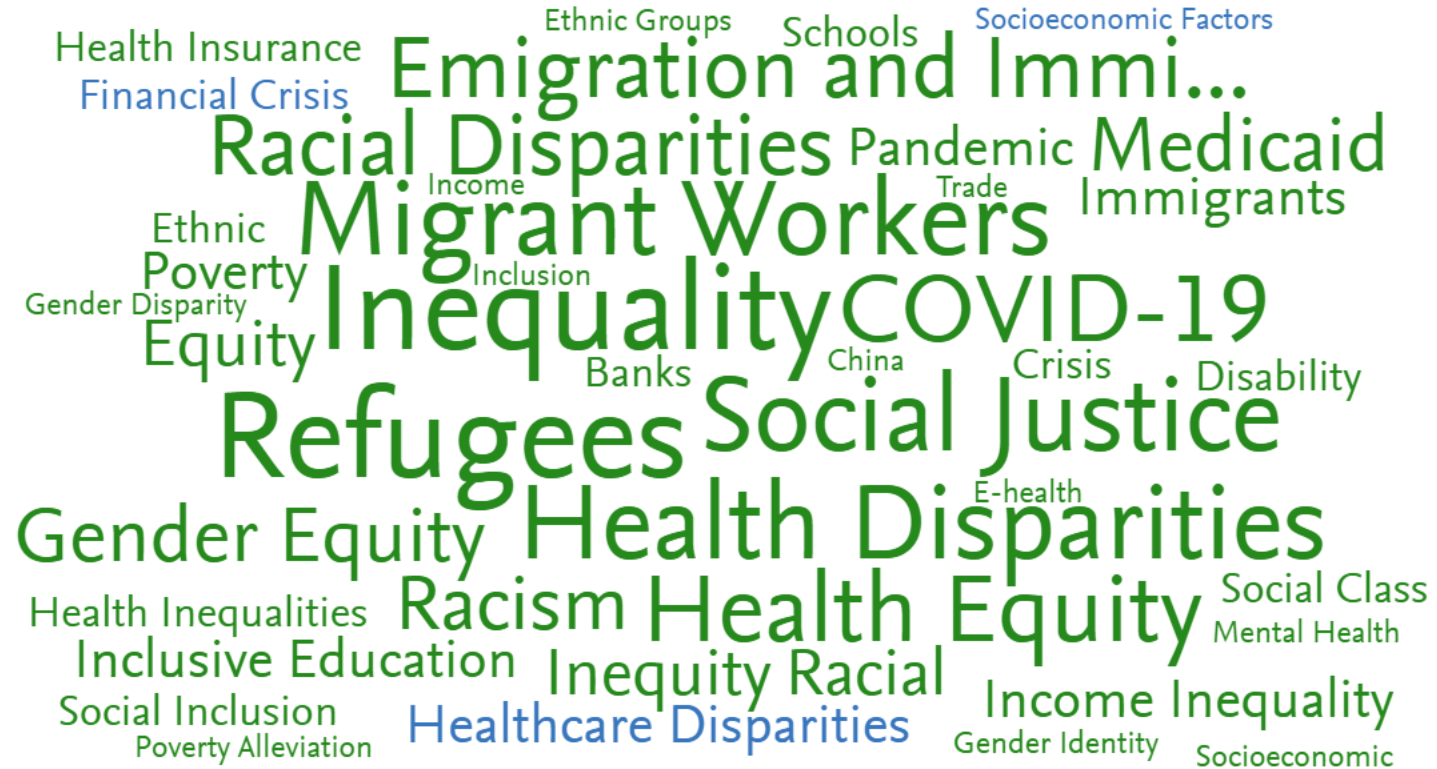
09

INDUSTRY, INNOVATION AND INFRASTRUCTURE





Top 50 keyphrases by relevance, based on 178,766 publications







Top 50 keyphrases by relevance, based on 297,306 publications

11  
SUSTAINABLE CITIES  
AND COMMUNITIES





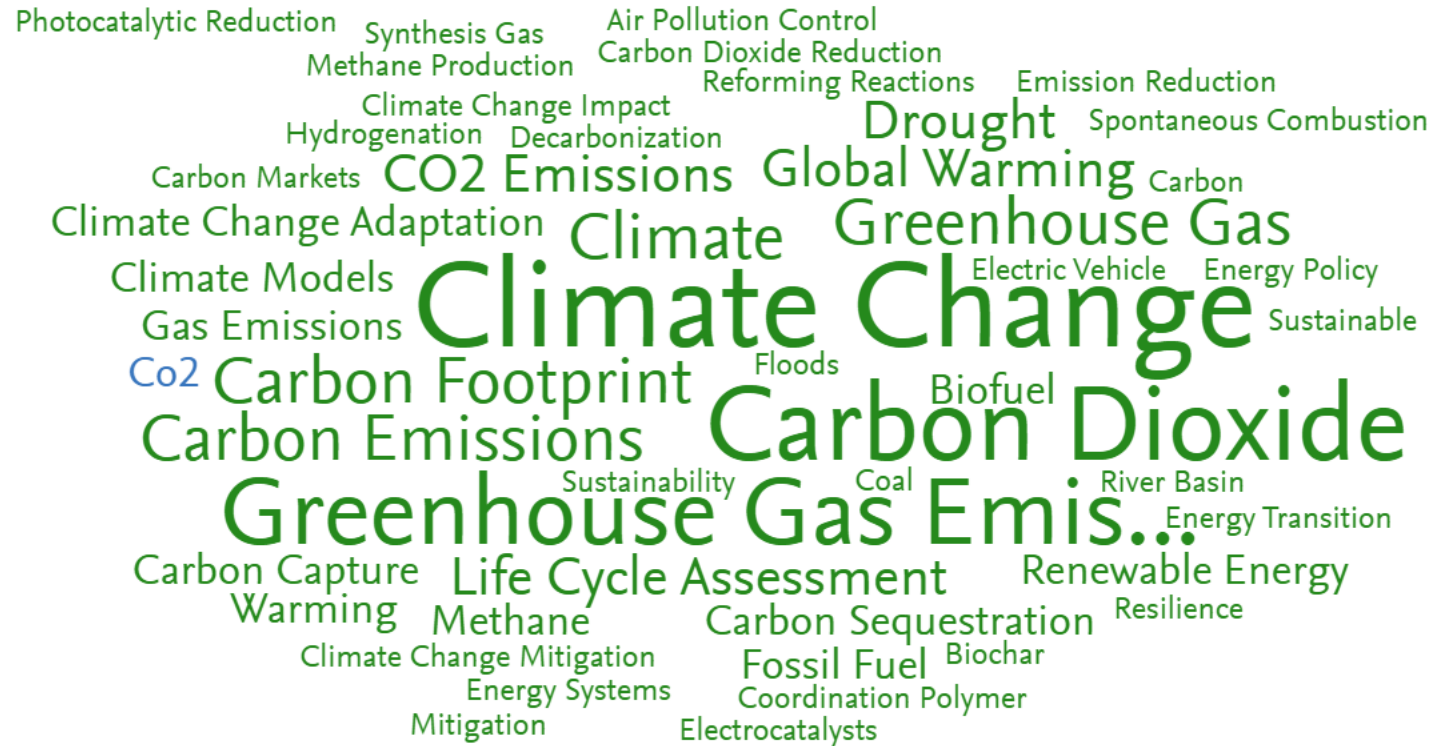
Top 50 keyphrases by relevance, based on 195,525 publications



12  
 RESPONSIBLE  
 CONSUMPTION AND  
 PRODUCTION



Top 50 keyphrases by relevance, based on 228,028 publications



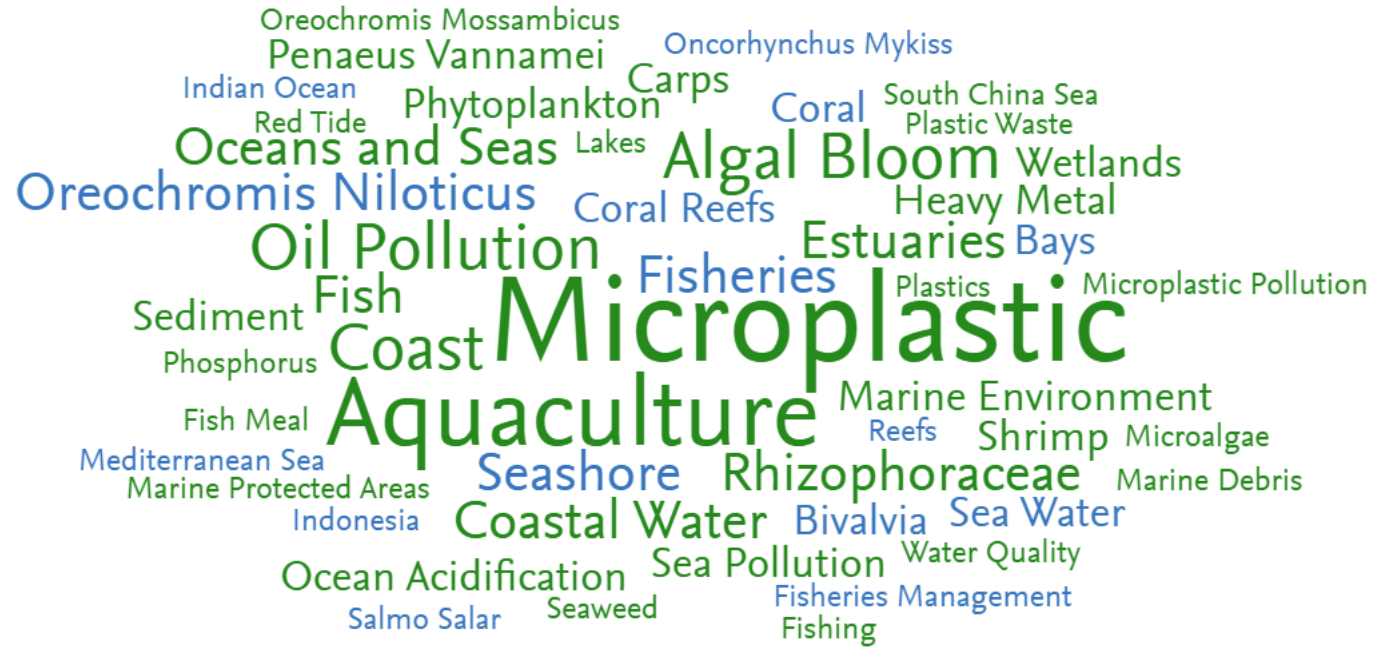
13

CLIMATE ACTION





Top 50 keyphrases by relevance, based on 126,623 publications

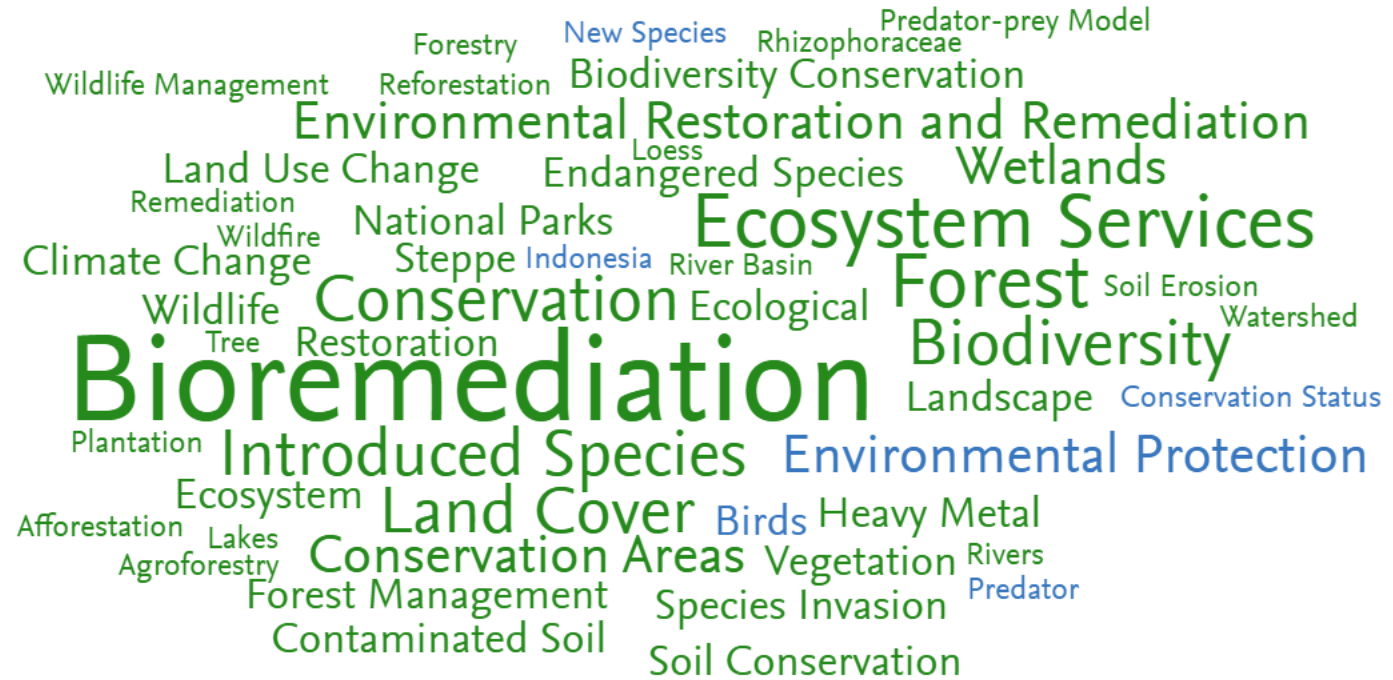


14  
LIFE BELOW WATER





Top 50 keyphrases by relevance, based on 153,145 publications





Top 50 keyphrases by relevance, based on 162,704 publications



16

PEACE, JUSTICE AND STRONG INSTITUTIONS



# CHIANG MAI UNIVERSITY

## Times Higher Education Impact Ranking 2023



อันดับ

1



ของประเทศ  
SDG13  
CLIMATE ACTION

อันดับ

74

ของโลก  
จาก 1,591  
มหาวิทยาลัยทั่วโลก

อันดับ

3

ของประเทศ  
(Overall Ranking)

อันดับ TOP 50 ของโลก 3 SDGs



อันดับ TOP 100 ของโลก 7 SDGs





# Innovation for Resilient Agriculture



**IRA 2024**

