

Návod na vyhledávání na platformě Ovid

New Ovid Interface

srpen 2023



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Vstup do databáze

Ovid[®] My Account My PayPerView Ask A Librarian Support & Training Mendel University in Brno Help Feedback Log Off

Search Journals Books Multimedia My Workspace What's New

Select Resource(s) to search:

☐	All Resources	^
☐	Books@Ovid August 07, 2023	①
☐	Journals@Ovid Full Text August 04, 2023	①
☐	Your Journals@Ovid	①
☐	Biological Abstracts 1990 to 2012	①
☐	Biological Abstracts 1987 to 1989	①
☒	CAB Abstracts & CAB Abstracts Plus Collection Full Text 1990 to Present	①
☒	CAB Abstracts Archive 1910 - 1989	①
☐	Ovid MEDLINE(R) and Epub Ahead of Print, In-Process, In-Data-Review & Other Non-Indexed Citations, Daily and Versions 1946 to August 07, 2023	①
☐	Ovid MEDLINE(R) and Epub Ahead of Print, In-Process, In-Data-Review & Other Non-Indexed Citations and Daily 1946 to August 07, 2023	①

Delete Group Add Group Continue

- 1) Výběr databází(-e), ve které(-ých) se má vyhledávat
- 2) Volba potvrzena „Continue“



Založení nebo vstup do "My Account"

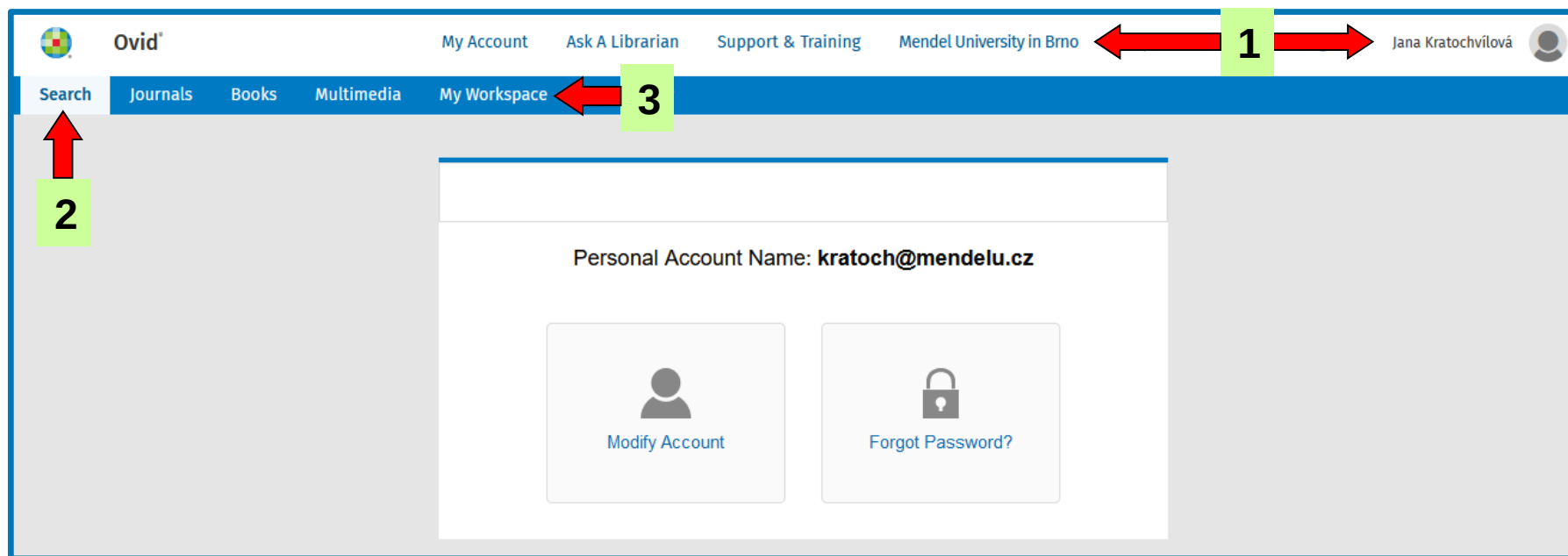
The screenshot shows the Ovid website interface. The top navigation bar includes links for 'My Account', 'My PayPerView', 'Ask A Librarian', 'Support & Training', 'Mendel University in Brno', 'Help', 'Feedback', and 'Log Off'. The main navigation bar includes 'Search', 'Journals', 'Books', 'Multimedia', 'My Workspace', and 'What's New'. The search results section shows '2 resources selected' and a search bar with the text 'Enter topic or question'. The login form on the right is titled 'Access Your Ovid Personal Account' and includes fields for 'Personal Account Name' and 'Password'. A 'Sign in' button is located below the password field. At the bottom of the form, there is a link for 'Forgot Account Name or Password?' and a section for 'Don't have a Personal Account?' with a 'Create Account' button. A red arrow points from the 'My Account' link in the top navigation bar to the login form. A green box with the number '2' is next to the 'Personal Account Name' input field. Another green box with the number '1' is next to the 'Create Account' button at the bottom of the form.

"My Account" – vytvoření vlastního účtu nebo opětovné přihlášení do již existujícího účtu

- 1) **"Create Account"** – založení vlastního účtu. Personal Account Name = e-mail s doménou MENDELU
- 2) **"Access Your Ovid Personal Account"** – opětovné přihlášení se do účtu



Založení nebo vstup do "My Account"



- 1) Při správném přihlášení se nám objeví naše jméno a název instituce. Při opětovném přihlášení se načtou nastavení databáze uživatelem (viz dále )
- 2) **"Search"** – návrat na obrazovku vyhledávání (viz dále)
- 3) **"My Workspace"** – zde jsou uloženy **"My Searches"** (předchozí vyhledávací profily) a **"My Projects"** (viz dále)



My Workspace

Ovid® My Account My PayPerView Ask A Librarian Support & Training Mendel University in Brno Help Feedback Log Off Jana Kratochvilová

Search Journals Books Multimedia **My Workspace** 1

My Projects My Searches & Alerts My eTocs

Search terms entered All Projects Search

Manage Projects 2 Actions

Name	Items	Modified
Pudy-CO2	26	2023-Jul-24
Zalesnovani	6	2022-Dec-19
Kozy-etologie	90	2022-Dec-15
Kozy-pastva-trv...	242	2022-Dec-02
Maso-kruta	5	2022-Nov-25
Travni_porosty-...	113	2022-Nov-04
Bioremediace-...	132	2022-Sep-21
Lesni_cesty-vs...	55	2022-Aug-19
Bakterie-vyziva...	168	2022-Aug-16
Bakterie-Sacch...	75	2022-Aug-15
Bakterie-mlecn...	157	2022-Aug-12

No Project/Folder is currently selected.

Archived Projects

Name ▲	Items	Modified
--------	-------	----------

0.0 of 50MB Storage used

Trash

Empty Trash now

Messages that have been in Trash more than 30 days will be automatically deleted

- 1) "My Workspace" – záložka s vybranými a uloženými záznamy na určitá témata,
- 2) "Manage Projects" – správa uložených záznamů



My Workspace

Ovid[®] My Account My PayPerView Ask A Librarian Support & Training Mendel University in Brno Help Feedback Log Off Jana Kratochvilová

Search Journals Books Multimedia **My Workspace** What's New

My Projects My Searches & Alerts  pcs [Send us your feedback](#) 

PERMANENT SEARCHES 36 ☐ Favorites Only

▶ Run  Copy  Delete

Permanent Searches 36

☐ Bioremediace-dreviny-voda	Permanent	   
☐ Bioremediace-pH-uhlicitany	Permanent	   
☐ Bioremediace-voda	Permanent	   
☐ Bukvice-mykoflora	Permanent	   
☐ Bukvice-zrani	Permanent	   
☐ Hadcove pudy	Permanent	   

"My Searches & Alerts" – zde jsou k opětovnému vyhledávání uloženy vytvořené vyhledávací profily.



Search

Ovid® My Account My PayPerView Ask A Librarian Support & Training Mendel University in Brno Help Feedback Log Off Jana Kratochvilová

Search Journals Books Multimedia My Workspace What's New

Search History (0) View Saved

Basic Search Find Citation Search Tools Search Fields Advanced Search Multi-Field Search

2 resources selected Hide Change

CAB Abstracts & CAB Abstracts Plus Collection Full Text 1990 to Present CAB Abstracts Archive 1910 - 1989

Enter topic or question Search

☐ Include Multimedia ☐ Include Related Terms

Limits

☐ Abstracts ☐ English Language ☐ Full Text

Publication Year - -

Additional Limits Edit Limits

Záložka "Search" umožňující různé způsoby vyhledávání záznamů.



Multi-Field Search

The screenshot shows the Ovid database search interface. At the top, there's a navigation bar with links like 'My Account', 'My PayPerView', 'Ask A Librarian', 'Support & Training', 'Mendel University in Brno', 'Help', 'Feedback', 'Log Off', and a user profile 'Jana Kratochvílová'. Below this is a secondary navigation bar with 'Search', 'Journals', 'Books', 'Multimedia', 'My Workspace', and 'What's New'. The main search area has tabs for 'Basic Search', 'Find Citation', 'Search Tools', 'Search Fields', 'Advanced Search', and 'Multi-Field Search' (which is highlighted with a red box and a green box with the number 1). Below the tabs, it says '2 resources selected' and lists 'CAB Abstracts & CAB Abstracts Plus Collection' and 'CAB Abstracts Archive 1910 - 1989'. The search table has three rows, each with a 'Field' dropdown, a 'Term' input, and an 'Operator' dropdown. The first row has 'Title' selected, and the second and third rows have 'Subject Headings' and 'Identifiers' selected respectively. All three rows have the same term: 'grassland or grasslands or "grazing land" or "grazing lands"'. The 'Operator' dropdown for all rows is set to 'OR'. A green box with the number 2 points to the 'Identifiers' dropdown in the third row. At the bottom left, there is a 'Search' button with a magnifying glass icon, highlighted with a red box and a green box with the number 3. Below the search table, there are checkboxes for 'English Language' and 'Full Text'. An 'Add New Row' button is also visible.

1) Do řádku jsou vepisovány hledané pojmy a jejich synonyma oddělené operátorem **OR** (nebo), např. grassland or grasslands or "grazing land" or "grazing lands" or pasture or pastures (sousloví je zapisováno do oboustranných uvozovek)

2) Stejná slova jsou zapsána do každého řádku a vybrána pole, která se mají prohledávat. Mezi jednotlivými řádky zvolen operátor OR (nebo)

3) Potvrzeno "**Search**"



Multi-Field Search

[Search](#) [Journals](#) [Books](#) [Multimedia](#) [My Workspace](#) [What's New](#)

Search History (3) ^

View Saved

☒	# ▲	Searches	Results	Type	Actions	Annotations
☒	1	✓ (grassland or grasslands or "grazing land" or "grazing lands" or pasture or pastures).ti. or (grassland or grasslands or "grazing land" or "grazing lands" or pasture or pastures).sh. or (grassland or grasslands or "grazing land" or "grazing lands" or pasture or pastures).id. or (grassland or grasslands or "grazing land" or "grazing lands" or pasture or pastures).hw.	239834	Advanced	Display Results More ▾	
☒	2	✓ (fire or fires).ti. or (fire or fires).sh. or (fire or fires).id. or (fire or fires).hw.	54841	Advanced	Display Results More ▾	
☒	3	✓ ("species richness" or "species diversity" or biodiversity).ti. or ("species richness" or "species diversity" or biodiversity).sh. or ("species richness" or "species diversity" or biodiversity).id. or ("species richness" or "species diversity" or biodiversity).hw.	197550	Advanced	Display Results More ▾	

[Save](#) [Remove](#)

Combine with: **AND**

[Deduplicate](#)

[Save All](#) [Edit](#) [Create RSS](#) [Create Auto-Alert](#) [View Saved](#)

[Share Search History](#)

Označení a vyhledání záznamů na základě kombinace klíčových slov



Multi-Field Search

[Search](#) [Journals](#) [Books](#) [Multimedia](#) [My Workspace](#) [What's New](#)

Search History (4) ^

[View Saved](#)

☐	# ▲ Searches	Results	Type	Actions	Annotations
☐	1 ✓ (grassland or grasslands or "grazing land" or "grazing lands" or pasture or pastures).ti. or (grassland or grasslands or "grazing land" or "grazing lands" or pasture or pastures).sh. or (grassland or grasslands or "grazing land" or "grazing lands" or pasture or pastures).id. or (grassland or grasslands or "grazing land" or "grazing lands" or pasture or pastures).hw.	239834	Advanced	Display Results More ▼	
☐	2 ✓ (fire or fires).ti. or (fire or fires).sh. or (fire or fires).id. or (fire or fires).hw.	54841	Advanced	Display Results More ▼	
☐	3 ✓ ("species richness" or "species diversity" or biodiversity).ti. or ("species richness" or "species diversity" or biodiversity).sh. or ("species richness" or "species diversity" or biodiversity).id. or ("species richness" or "species diversity" or biodiversity).hw.	197550	Advanced	Display Results More ▼	
☐	4 ✓ 1 and 2 and 3	1099	Advanced	Display Results More ▼	

[Save](#) [Remove](#)

Combine with: [AND](#) [OR](#)

[Deduplicate](#)

[Save All](#) [Edit](#) [Create RSS](#) [Create Auto-Alert](#) [View Saved](#) [Share Search History](#)

Zobrazení vyhledaných záznamů



Advanced Search

The screenshot shows the 'Advanced Search' tab selected in a navigation bar. Below the navigation bar, there's a 'Search History (0)' section with a 'View Saved' link. The main search area has tabs for 'Basic Search', 'Find Citation', 'Search Tools', 'Search Fields', 'Advanced Search' (which is active), and 'Multi-Field Search'. It indicates '2 resources selected' with 'Hide' and 'Change' links. Two database filters are shown: 'CAB Abstracts & CAB Abstracts Plus Collection Full Text 1990 to Present' and 'CAB Abstracts Archive 1910 - 1989'. Search criteria are set to 'Keyword'. The search query field contains the text: "(grassland or grasslands or "grazing land" or "grazing lands" or pasture or pastures).ti,sh,hw,id". Below the query field, there are checkboxes for 'Include Multimedia' and 'Map Term to Subject Heading'. A 'Limits' dropdown is also present. A blue 'Search' button is on the right. Three red arrows with green numbered boxes point to specific elements: arrow 1 points to the search query field, arrow 2 points to the 'Map Term to Subject Heading' checkbox, and arrow 3 points to the 'Search' button.

- 1) Hledané výrazy jsou zapsány do řádku do oboustranné závorky, za kterou je tečka a napsány zkratky názvu polí , která se mají prohledávat, např. ("grazing land" or "grazing lands" or pasture or pastures).ti,sh,hw,id
- 2) Nesmí být zaškrtnuto **"Map Term to Subject Heading"**
- 3) Hledání potvrzeno **"Search"**



Advanced Search

The screenshot displays the 'Advanced Search' interface. At the top, a navigation bar includes 'Search', 'Journals', 'Books', 'Multimedia', 'My Workspace', and 'What's New'. Below this, the 'Search History (2)' section shows two saved searches. The first search is '(grassland or grasslands or "grazing land" or "grazing lands" or pasture or pastures).ti,sh,hw,id.' with 239834 results. The second search is '(fire or fires).ti,sh,hw,id.' with 54841 results. Both searches are marked with a blue checkmark in a box, which is highlighted by a red square and a red arrow pointing to a green box labeled '1'. Below the search history, there are buttons for 'Save', 'Remove', and 'Combine with:'. The 'Combine with:' section has two buttons: 'AND' and 'OR'. A red arrow points to the 'AND' button, which is highlighted by a green box labeled '2'. Other buttons include 'Deduplicate', 'Share Search History', and 'View Saved'.

☐	# ▲ Searches	Results	Type	Actions	Annotations
☒	1 (grassland or grasslands or "grazing land" or "grazing lands" or pasture or pastures).ti,sh,hw,id.	239834	Advanced	Display Results More ▼	
☒	2 (fire or fires).ti,sh,hw,id.	54841	Advanced	Display Results More ▼	

Buttons: Save, Remove, Combine with: AND, OR, Deduplicate, Share Search History, View Saved

1) Vyhledané pojmy po označení lze kombinovat pomocí Booleovských operátorů.

2) Lze zvolit AND nebo OR



Advanced Search

[Search](#) [Journals](#) [Books](#) [Multimedia](#) [My Workspace](#) [What's New](#)

Search History (3) ^

View Saved

☐	# ▲ Searches	Results	Type	Actions	Annotations
☐	1 (grassland or grasslands or "grazing land" or "grazing lands" or pasture or pastures).ti,sh,hw,id.	239834	Advanced	Display Results More ▾	
☐	2 (fire or fires).ti,sh,hw,id.	54841	Advanced	Display Results More ▾	
☐	3 1 and 2	6047	Advanced	Display Results More ▾	

Save

Remove

Combine with:

AND

OR

Deduplicate

Save All

Edit

Create RSS

Create Auto-Alert

View Saved

[Share Search History](#)

Basic Search

Find Citation

Search Tools

Search Fields

Advanced Search

Multi-Field Search

2 resources selected [Hide](#) [Change](#)

CAB Abstracts & CAB Abstracts Plus Collection Full Text 1990 to Present

CAB Abstracts Archive 1910 - 1989

Vyhledané záznamy

Mnoho záznamů ⇒ zpřesnit pomocí dalších klíčových slov



Advanced Search

Search History (5)  [View Saved](#) 

☐	# ▲ Searches	Results	Type	Actions	Annotations
☐	2 ▾ (fire or fires).ti,sh,hw,id.	54841	Advanced	Display Results More ▾	
☐	3 ▾ 1 and 2	6047	Advanced	Display Results More ▾	
☐	4 ▾ ("species richness" or "species diversity" or biodiversity).ti,sh,hw,id.	197550	Advanced	Display Results More ▾	
☐	5 ▾ 3 and 4	1099	Advanced	Display Results More ▾	

[Save](#) [Remove](#) Combine with: [AND](#) [OR](#) [Deduplicate](#) [Expand](#)

[Save All](#) [Edit](#) [Create RSS](#) [Create Auto-Alert](#) [View Saved](#) [Share Search History](#)

Vyhledané záznamy
po zpřesnění

Search History (5)  [View Saved](#) 

☐	# ▲ Searches	Results	Type	Actions	Annotations
☐	1 ▾ (grassland or grasslands or "grazing land" or "grazing lands" or pasture or pastures).ti,sh,hw,id.	239991	Advanced	Display Results More ▾	
☐	2 ▾ (fire or fires).ti,sh,hw,id.	54870	Advanced	Display Results More ▾	
☐	3 ▾ 1 and 2	6053	Advanced	Display Results More ▾	
☐	4 ▾ ("species richness" or "species diversity" or biodiversity).ti,sh,hw,id.	197806	Advanced	Display Results More ▾	
☐	5 ▾ 3 and 4	1099	Advanced	Display Results More ▾	

[Save](#) [Remove](#) Combine with: [AND](#) [OR](#) [Deduplicate](#) [Contract](#)

[Save All](#) [Edit](#) [Create RSS](#) [Create Auto-Alert](#) [View Saved](#) [Share Search History](#)

Expand = zobrazení všech řádků rešeršního dotazu



Časové omezení záznamů

Basic Search Find Citation Search Tools Search Fields **Advanced Search** Multi-Field Search

2 resources selected [Hide](#) [Change](#)

① CAB Abstracts & CAB Abstracts Plus Collection Full Text 1990 to Present ① CAB Abstracts Archive 1910 - 1989

☒ Keyword ☐ Author ☐ Title ☐ Journal

Enter keyword or phrase (* or \$ for truncation)

☐ Include Multimedia ☐ Map Term to Subject Heading

Limits ^

☐ Abstracts ☐ English Language ☐ Full Text

Publication Year - -

[Additional Limits](#) [Edit Limits](#)

"Additional Limits" – nastavení omezení hledaných záznamů, např. rok(y) vydání dokumentů



Limits Search

? Hints:

- Choose a search to limit by clicking a "select" box
- Select as many limits as you wish by clicking in checkboxes or choosing from pull-down menus
- Click "Limit Search" when you are ready to post the search

Limit A Search

3

☐	Searches	Results	Type
☐	1 (grassland or grasslands or "grazing land" or "grazing lands" or pasture or pastures).ti,sh,hw,id.	239991	Advanced
☐	2 (fire or fires).ti,sh,hw,id.	54870	Advanced
☐	3 1 and 2	6053	Advanced
☐	4 ("species richness" or "species diversity" or biodiversity).ti,sh,hw,id.	197806	Advanced
☒	5 3 and 4	1099	Advanced

Contract

L i m i t s

- ☐ Abstracts
- ☐ English Language
- ☐ Full Text
- ☐ Full Text & CAB Abstracts Full Text
- ☐ Latest Update
- ☐ Ovid Full Text Available
- ☐ Systematic Review
- ☐ Publication Year -

To select or remove multiple items from a list below, hold down the Shift, Ctrl, or Apple key while selecting.

- 1) Nastavení roků vydání hledaných záznamů
- 2) Označení hledání, které má být časově omezeno
- 3) "Limit A Search" – vyhledání časově omezených záznamů



Zkratky vybraných polí k vyhledávání pomocí Advanced Search

TI = Title

Název článku v angličtině

OT = Original Title

Název článku v jazyce originálu plného textu, pokud je psán latinkou (např. němčina, italština, francouzština, čeština, ...)

AB = Abstract

Anotace článku v angličtině

Vyhledávání v poli abstrakt je doporučeno, pokud je hledáno nové téma, u kterého je předpoklad nalezení mála záznamů. Prohledává se také v případech, kdy není ověřeno, zda je slovo součástí CAB Thesaurus – je klíčovým slovem.

AU = Author

Vyhledávání prací konkrétního autora

DO = Digital Object Identifier

Přesná a trvalá identifikace dokumentu na internetu, nezávislá na jeho lokaci nebo metodě přístupu.



Zkratky vybraných polí k vyhledávání pomocí Advanced Search – klíčová slova

HW = Heading Words

Současné prohledávání polí Subject Heading (SH), Organism Descriptors (OD), Identifiers (ID), Broad Term (BT) a Geographic Location (GL)

SH = Subject Headings

Slova nebo sousloví obsažená v řízeném slovníku – CAB Thesaurus a současně nejsou obsažena v OD a GL

např. *Pinus* v OD ⇒ **pin****es** v SH
forest soils v SH

OD (Organism Descriptor)

Většina názvů je taxonomických; anglické názvy se používají pro hospodářská zvířata a plodiny, některé známé volně žijící druhy.

např. **Cervus elaphus**, **red deer**, **Pinus**



Zkratky vybraných polí k vyhledávání pomocí Advanced Search – klíčová slova

ID = Identifier

Slova nebo fráze přiřazené indexátory, které nejsou součástí CAB Thesaurus, pro úplnější popis obsahu dokumentu

např. silver birch (Betula verrucosa, Betula pendula)

BT = Broad Terms

Nadřazené pojmy pro OD a GL

např. Pinus v OD ⇒ Pinaceae, plants v BT

Czech Republic v GL ⇒ Central Europe. Europe v BT

GL = Geographic Location

Země a jejich části, územní celky

např. Italy, Sicily ; Corsica, France, Mediterranean Sea ; Germany, Saxony

DE = Descriptor Index

Současné prohledávání polí GL, OD a SH



Tezaurus a jeho použití

Basic Search Find Citation **Search Tools** Search Fields Advanced Search Multi-Field Search

2 resources selected [Hide](#) [Change](#)

① CAB Abstracts & CAB Abstracts Plus Collection Full Text 1990 to Present ① CAB Abstracts Archive 1910 - 1989

Tool Type

- Thesaurus
- Map Term
- Thesaurus**
- Permuted Index
- Scope Note
- Explode
- Classification Codes

grazing land [Search](#)

Print Email Export + My Projects Keep Selected

View: — = ≡ 100 Per Page 1 Go Next >

"**Search Tools**" ⇒ **Thesaurus** – ověření si, zda hledané pojmy mají synonyma, nadřazené a podřazené pojmy

Je hledán pojem ***grazing land*** – pastvina



Tezaurus databáze CAB ABSTRACTS

Ovid[®] My Account **Main Search Page** Ask A Librarian Support & Training Mendel University in Brno Help Feedback Log Off

Thesaurus for **pastures** Database: **CAB Abstracts**

Návrat na stránku hledání

Message: 'grazing land' was not found in the thesaurus. The alphabetically closest term is 'grazing lands' Message: Term has been mapped to 'pastures'

☒	pastures	80155	☐	
	[Used For]			
	grazing lands			
	[Narrower Terms]			
☐	irrigated pastures	431	☐	
☐	mixed pastures	850	☐	
	[Related Terms]			
☐	agriculture	24936	☐	
☐	fields	16006	☐	
☐	grasslands	146225	☐	
☐	grazing	72410	☐	
☐	herbage	17262	☐	

Grazing land je v klíčových slovech databáze zapsán jako:

grazing lands (used for) jako viz ***pastures***.

Podřazené pojmy jsou pak ***irrigated pastures*** nebo ***mixed pastures***.

Z příbuzných pojmů lze ještě použít ***grasslands*** – i tak někdy označeny v angl. pastviny



Vysvětlení základních pojmů z tezauru

Tezaurus (angl. thesaurus) je soubor výrazů vyjadřujících synonymické, hierarchické a další vztahy a závislosti, jehož funkcí je poskytnutí předem vytvořeného kontrolovaného slovníku pro ukládání a vyhledávání informací. [ČSN ISO 8777-1996:3.20]

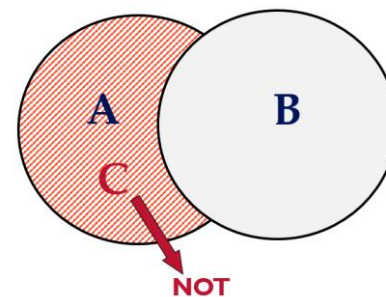
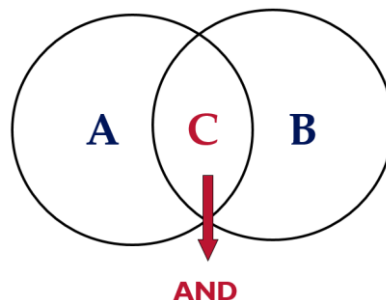
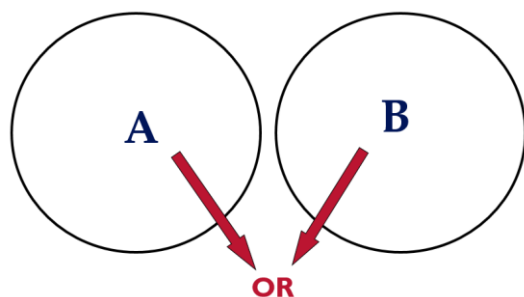
- **Broad terms** (BT) – hierarchicky nadřazený deskriptor
- **Narrower terms** (NT) – hierarchicky podřazený deskriptor
- **Related terms** (RT) – asociovaný deskriptor (souvisí s jiným deskriptorem, ale neexistuje mezi nimi vztah ekvivalence ani hierarchie)
- **Used for** – ekvivalentní vztah (viz též)



Tvorba řešeršního dotazu

1) Booleovské operátory OR, AND, NOT

- **OR** – pro vyhledávání synonym nebo příbuzných pojmů, např. canola OR colza OR rape* OR "Brassica napus"
- **AND** – vyhledání slov, aby se společně vyskytovala v daném textu, např. (canola OR colza OR rape* OR "Brassica napus") AND (cultivation OR "plant culture")
- **NOT** – vyhledány jsou záznamy, které obsahují první hledané slovo a vylučují druhé hledané slovo, např. (cultivation OR "plant culture") NOT protection (budou vyhledány všechny záznamy o pěstování rostlin, ale vynechány záznamy týkající se ochrany)



Tvorba řešeršního dotazu

2) Proximitní operátory

- ADJn – poziční operátor, kde n = 1–99 a určuje počet slov navzájem od sebe v libovolném pořadí. Např. ADJ3 – výrazy v libovolném pořadí, kdy mezi nimi budou 2 a méně slov. Do počtu se nezapočítávají tzv. "Stop Words,, (viz. tabulka), slova, která databáze při vyhledávání ignoruje a nepočítá je do daného počtu slov.

a	can	how	no	seem	through
about	could	however	nor	seen	thus
after	did	if	not	several	to
again	do	in	now	should	under
all	does	into	obtain	show	up
almost	done	is	obtained	showed	upon
also	during	it	of	shown	use
although	each	its	often	shows	used
always	either	itself	on	significant	using
among	enough	just	only	significantly	various
an	especially	kg	or	since	very
and	etc	km	other	so	was
another	followed	largely	our	some	we
any	following	like	out	such	were
approximately	for	made	over	suggest	what
are	found	mainly	overall	than	when
as	from	make	per	that	whereas
at	further	may	perhaps	the	which
be	give	might	possible	their	while
because	given	min	previously	theirs	with
been	giving	mm	quite	them	within
before	had	more	rather	then	without
being	hardly	most	really	there	would
between	has	mostly	regarding	these	
both	have	must	resulted	they	
but	having	nearly	resulting	this	
by	here	neither	same	those	



Tvorba řešeršního dotazu

3) Wild Cards:

- ***** - rozšíření základu slova o přípony, např. gene* = vyhledání slov gene, genes, genetics, generation, general, generalization, genesis, atd.
- **\$** - rozšíření základu slova o příponu s omezením počtu znaků, např. gene\$1 = vyhledání slov gene nebo genes, ale už ne genetics
- **#** - zástupný znak nahrazující jeden znak ve slově nebo na konci slova, např. organi#ation = organi~~z~~ation nebo organi~~s~~ation; dog# = dog~~s~~, ale nevyhledá dog; wom#n = wom~~a~~n nebo wom~~e~~n
- **?** – zástupný znak žádný nebo jeden znak ve slově nebo na konci slova, např. colo?r = col~~o~~r nebo col~~ou~~r. Využití hlavně při rozdílnosti britské a americké angličtiny.



Uživatelské nastavení zobrazení záznamů

Zobrazení / skrytí levého sloupce

< Hide **skrytí levého sloupce** [Print](#) [Email](#) [Export](#) [+ My Projects](#) [Keep Selected](#)

Search Information ^

You searched:
3 and 4

Search terms used:
biodiversity
fire
fires
grassland
grasslands
grazing
land
lands
pasture
pastures

☐ All [Clear](#) View: — **=** ≡ 100 Per Page ▾ 1 Next >

☐ 1. **Effects of land-use intensity, grazing and fire disturbances on soil bacterial and fungal communities in subtropical wetlands.** Abstract Reference Complete Reference Find Similar Find Citing Articles Full Text **PLNÝ TEXT** Zdroje na internetu

Guo YuXi, Liao HuiLing, Boughton, E. H., Martens-Habbena, W., Qiu JiangXiao
Agriculture, Ecosystems & Environment 2023. 345. 90 ref.
[Journal article]

[Abstract](#) ▾ [Cite](#) [+ My Projects](#) [+ Annotate](#)

> Show **zobrazení levého sloupce** [Print](#) [Email](#) [Export](#) [+ My Projects](#) [Keep Selected](#)

☐ All [Clear](#) View: — **=** ≡ 100 Per Page ▾ 1 Next >

☐ 1. **Effects of land-use intensity, grazing and fire disturbances on soil bacterial and fungal communities in subtropical wetlands.** Abstract Reference Complete Reference Find Similar Find Citing Articles Full Text

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Agriculture, Ecosystems & Environment 2023. 345. 90 ref.
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Uživatelské nastavení zobrazení záznamů

Řazení dle roku vydání

Sort By: 

-

CAS Registry Numbers

↓ CAS Registry Numbers

↑ Subject Headings

↓ Subject Headings

↑ Summary Language

↓ Summary Language

↑ Source

↓ Source

↑ Electronic Subset Code

↓ Electronic Subset Code

↑ Title

↓ Title

↑ Update Code

↓ Update Code

↑ URL

↓ URL

↑ Volume

↓ Volume

↑ Year of Publication

↓ Year of Publication 

[Journal article]

Abstract ▾  Cite  + My Projects  + Annotate

Find Citing Articles

Full Text



Zdroje na internetu

CAB Database PDFs

☐ 3.

Deep mowing rather than fire restrains grassland *Miscanthus* growth via affecting soil nutrient loss and microbial community redistribution.

Mao ZhuXin, Wang YuChao, Li Qian, Li WeiMin, Wang Hong, Li Yang, Yue Ming

Frontiers in Plant Science 2023. 14(January). 77 ref.

[Journal article]

Abstract ▾  Cite  + My Projects  + Annotate

Abstract Reference

Complete Reference

Find Similar

Find Citing Articles

Full Text



Zdroje na internetu

☐ 4.

Effects of grazing and fire management on rangeland soil and biocrust microbiomes.

Vega-Cofre, M. V., Williams, W., Song Young, Schmidt, S., Dennis, P. G.

Ecological Indicators 2023. 148. many ref.

Abstract Reference

Complete Reference

Find Similar

 Vyhledané záznamy lze seřadit ("Sort By:"), např. dle data publikování ("Year of Publication")



Uživatelské nastavení zobrazení záznamů

Nastavení zobrazení polí záznamů

The screenshot shows the 'Customize Display' interface. A red arrow points to the 'Filter By' dropdown. Another red arrow points to the 'Select Fields' button in the 'Customize display of results' panel. A third red arrow points to the 'Select Fields' button in the 'Custom' section at the bottom. A fourth red arrow points to the 'Save Changes' button. A fifth red arrow points to the 'Save' button at the bottom right of the 'Select fields' dialog.

Customize Display

Filter By

Customize display of results

Select Fields to Display

- ☐ Citation
- ☐ Citation, Abstract
- ☐ Citation, Abstract, Subject Headings
- ☐ Complete Reference
- ☒ Custom

Select Fields

Selected Fields:
au, ti, so, jn, lm, pt

Select Style to Display
Ovid Citation

Cancel **Save Changes**

Select fields

Select specific fields to be displayed on citation results

Select All Unselect All

☒ ab: Abstract	☐ gl: Geographic Location	☐ pc: Page Count
☐ an: Accession Number	☐ ib: ISBN	☒ pt: Publication Type
☐ ad: Additional Authors	☐ es: ISSN Electronic	☐ pu: Publisher
☐ au: Author	☐ is: ISSN Print	☐ rf: References
☐ bt: Broad Terms	☒ id: Identifiers	☐ so: Source
☐ cc: CABICODES	☐ in: Institution	☒ sh: Subject Headings
☐ rn: CAS Registry Numbers	☐ jn: Journal Name	☐ sl: Summary Language
☐ cr: Copyright	☒ lg: Language	☐ sa: Supplementary Abstract
☐ ca: Corporate Author	☐ lm: Local Messages	☒ ti: Title
☐ cp: Country of Publication	☐ lp: Location of Publisher	☒ ur: URL
☒ do: Digital Object Identifier	☐ mt: Meeting	☐ up: Update Code
☐ ma: E-mail Address	☐ nt: Notes	☒ yr: Year of Publication
☐ ed: Editor	☒ od: Organism Descriptors	
☐ ss: Electronic Subset Code	☒ ot: Original Title	

Save

PLNÝ TEXT

Zdroje na internetu

CAB Database PDFs

Abstract Reference

Complete Reference

Q Find Similar

Q Find Citing Articles

Full Text

PLNÝ TEXT

Zdroje na internetu

"Select Fields" – zde zvolíme pole záznamů, která se mají při prohlížení zobrazovat



Uživatelské nastavení zobrazení záznamů

Nastavení zobrazení polí záznamů

☐ 1. **Effects of land-use intensity, grazing and fire disturbances on soil bacterial and fungal communities in subtropical wetlands.**

Guo YuXiLiao HuiLingBoughton, E. H.Martens-Habben, W.Qiu JiangXiao

Agriculture, Ecosystems & Environment

[Journal article]

Bacteria and fungi are primary components in wetland soil microbial communities and provide essential ecosystem functions and services. Understanding responses of bacterial and fungal communities to multiple drivers of environmental change and their interactions is crucial for wetland conservation and management, particularly for those embedded in agricultural landscapes. Yet little is known about effect of agricultural land use and wetland management on soil microbial communities in subtropical seasonal wetlands. Here, we used a long-term whole-ecosystem wetland experiment to examine individual and interactive effects of upland land-use intensification, livestock grazing, and prescribed fire on soil bacteria and fungi. We asked: (1) How do land-use intensification, grazing and fire disturbances interact to alter taxonomic composition and functional potential of wetland soil bacterial and fungal communities? (2) To what extent would these management and disturbance effects on wetland microbial communities manifest through alterations in soil properties? Our results showed that both microbial taxonomic and functional composition are responsive to agricultural land use and wetland management. Upland land-use intensification was the strongest driver (as compared to fire and grazing) in shaping bacterial and fungal community composition. Specifically, land-use intensification increased functional richness of both bacteria and fungi, whereas grazing and fire only interactively affected bacterial functional richness. In addition, responses of bacterial and fungal species diversity to wetland management varied, where grazing and fire reduced fungal species diversity in wetlands embedded in low-intensity managed pastures, but none of these management practices altered bacterial species diversity. Further, we found that pH and secondary nutrients (i.e., Ca and Mg) availability were the most important soil properties that explain how agricultural land use and wetland management drive the composition of bacterial and fungal communities. Our findings suggest that integration of lime application into intensified land uses to neutralize soil pH could facilitate maintenance of microbial diversity and associated functions. Our results highlight the need to comprehensively assess management impacts on soil microorganisms, rather than using a single or few indicators, due to inconsistent responses of bacterial and fungal communities, as well as their varied taxonomic and functional responses..

Digital Object Identifier
<http://dx.doi.org/10.1016/j.agee...>

Descriptor Index
land use, nitrogen, soil bacteria, soil types, species diversity, wetlands, grazing, ecological disturbance, fires, soil fungi, soil flora, microbial communities, microbial flora, subtropics, subtropical soils, wetland soils, ecosystems, upland areas, species composition, agricultural land, pastures, soil pH, soil chemical properties, calcium, magnesium, controlled burning, fire effects.

Organism Descriptors
Bacteria.

Identifiers
microflora, subtropical zones, farmland, grazing lands, chemical properties of soil, United States of America, prescribed burning, bacterium.

Language
English.

URL
<https://www.sciencedirect.com/sc...>

Year of Publication
2023

Cite My Projects Annotate

Abstract Reference
Complete Reference
Find Similar
Find Citing Articles
Full Text
 PLN TEXT
Zdroje na internetu

Vzhled záznamu po uživatelském nastavení polí ("Select Fields").
Zvýrazněna klíčová slova rešeršního dotazu.



Uložení řešeršního dotazu

The screenshot shows the Ovid search interface. At the top, there is a navigation bar with links: My Account, My PayPerView, Ask A Librarian, Support & Training, Mendel University in Brno, Help, Feedback, Log Off, and a user profile for Jana Kratochvílová. Below this is a search bar and a list of search history items. The search history table has columns: #, Searches, Results, Type, Actions, and Annotations. The fifth item is selected, and a red arrow points to the 'Save All' button in the bottom left corner of the search history section.

#	Searches	Results	Type	Actions	Annotations
1	(grassland or grasslands or "grazing land" or "grazing lands" or pasture or pastures).ti,sh,hw,id.	239991	Advanced	Display Results More	
2	(fire or fires).ti,sh,hw,id.	54870	Advanced	Display Results More	
3	1 and 2	6053	Advanced	Display Results More	
4	("species richness" or "species diversity" or biodiversity).ti,sh,hw,id.	197806	Advanced	Display Results More	
5	3 and 4	1099	Advanced	Display Results More	

Buttons: Save All, Edit, Create RSS, Create Auto-Alert, View Saved, Deduplicate, Contract, Share Search History.

The dialog box titled 'Save Your Search or Create an Alert' has a 'Cancel' button and a 'Save' button. It contains a 'Search name' field with the text 'Pastviny-ohen' (annotated with a red arrow and '1'), a 'Type' dropdown menu with 'Permanent' selected (annotated with a red arrow and '2'), and a 'Comment' field. The 'Save' button is annotated with a red arrow and '3'.

Uložit profil ("**Save All**") lze jen tehdy, pokud máte vytvořen "**Personal Account**" a jste do něho přihlášení

- 1) "**Search Name**" = pojmenování řešeršního dotazu (bez diakritiky)
- 2) "**Type**" = nastavení délky uchování dotazu
- 3) "**Save**" = uložení řešeršního dotazu



Zobrazení uloženého řešeršního dotazu

The screenshot displays the Ovid database interface. The top navigation bar includes links for 'My Account', 'My PayPerView', 'Ask A Librarian', 'Support & Training', 'Mendel University in Brno', 'Help', 'Feedback', and 'Log Off'. The user's name, 'Jana Kratochvílová', is shown in the top right corner. The main content area features a 'Search History (0)' section with a 'View Saved' button. A red arrow points from this button to a detailed view of the 'Permanent Searches' section, which lists two searches: 'Pastviny-ohen' and 'Puda-CO2'. The 'View Saved' button is highlighted with a red box, and the 'Permanent Searches' section is also highlighted with a red box.

Search History (0) [View Saved](#)

Save Remove Combine with: AND OR Deduplicate

Save All Edit Create RSS Create Auto-

My Projects My Searches & Alerts My eTocs Send us your feedback

PERMANENT SEARCHES 36 Favorites Only

Run Copy Delete

Permanent Searches 36

☐ Pastviny-ohen	Permanent	☆	✉	✎	👁
☐ Puda-CO2	Permanent	☆	✉	✎	👁

"View Saved" – zobrazení uložených řešeršních dotazů

(Lze jen po předchozím přihlášení do vlastního účtu – "Personal Account")



Označování záznamů

1 **grazing and fire management on rangeland soil and biocrust microbiomes.**

V. Williams, W. Song YoungSchmidt, S. Dennis, P. G.

Ecological indicators
[Journal article]

Biocrusts play important roles in rangeland ecosystems by protecting soil surfaces and fixing carbon and nitrogen. Their responses to rangeland management practices, however, are poorly understood. Here, we characterised the impacts of cattle grazing and fire management (controlled 2- or 4-yearly burning versus no fire) on the diversity and composition of biocrust and associated soil bacterial communities (0-1 cm depth) in a long-term (30-60 years) field experiment in the Northern Territory, Australia. Both experiments were replicated on two soil types (vertisol, calcarosol). For the grazing experiment, we also characterised samples from 0 to 10 cm depth. Significant effects of grazing on bacterial community composition were only detected in the vertisol, where it was generally associated with enrichments of cyanobacterial taxa in the 0-1 cm samples, and more varied responses in 0-10 cm samples. In contrast, despite some minor reductions in the relative abundances of *Bacillus* populations in more frequently burned sites (late season 2-yearly burning), we did not observe any significant impacts of fire management on the overall composition of bacterial communities. Our findings indicate that the presence of livestock in rangelands increases the proportional representation of cyanobacteria within biocrust and associated soil microbiomes, and that these communities, at least from a taxonomic perspective, are not strongly impacted by fire management.

Digital Object Identifier
<http://dx.doi.org/10.1016/j.ecol...>

Descriptor Index
grazing, species diversity, fire management, rangelands, grassland management, soil flora, crusts, soil bacteria, microbial communities, soil types, grasslands.

Organism Descriptors
Cyanobacteria, Bacillus (Bacteria), Bacteria.

Identifiers
range pastures, pasture management, Australian Northern Territory, Northern Territory of Australia, bacterium.

Language
English.

URL
<https://www.sciencedirect.com/sc...>

Year of Publication
2023

2 Cite My Projects + Annotate

Abstract Reference
Complete Reference
Find Similar
Find Citing Articles
Full Text
PLNÝ TEXT
Zdroje na internetu

1) Výběr (zrušení výběru) záznamu

2) "+Annotate" – vložení poznámky k záznamu, která se uloží společně s tímto záznamem (lze jen po předchozím přihlášení do vlastního účtu – "Personal Account")



Zobrazení označených záznamů

▲ Searches

1

▼ (grassland or grasslands or "grazing land" or "grazing lands" or pasture or pastures).ti,sh,hw,id.

239991

Advanced

Display Results

More ▼

2

▼ (fire or fires).ti,sh,hw,id.

54870

Advanced

Display Results

More ▼

3

▼ 1 and 2

6053

Advanced

Display Results

More ▼

4

▼ ("species richness" or "species diversity" or biodiversity).ti,sh,hw,id.

197806

Advanced

Display Results

More ▼

5

▼ 3 and 4

1099

Advanced

Display Results

More ▼

6

▼ limit 5 to yr="2010 -Current"

757

Advanced

Display Results

More ▼

Save

Remove

Combine with:

AND

OR

Deduplicate

Contract

Save All

Edit

Create RSS

Create Auto-Alert

View Saved

Share Search History

Basic Search

Find Citation

Search Tools

Search Fields

Advanced Search

Multi-Field Search

2 resources selected

Hide

Change

① CAB Abstracts & CAB Abstracts Plus Collection Full Text 1990 to Present

① CAB Abstracts Archive 1910 - 1989

Keyword

Author

Title

Journal

Enter keyword or phrase (* or \$ for truncation)

Search

Include Multimedia

Map Term to Subject Heading

Limits

Show

Print

Email

Export

My Projects

Keep Selected

All

Range

Clear

View:

10 Per Page

1

Go

Next

1. Effects of land-use intensity, grazing and fire disturbances on soil bacterial and fungal communities in subtropical wetlands.

Guo YuXiliao HuilingBoughton, E. H.Martens-Habbena, W.Qiu JiangXiao

Agriculture, Ecosystems & Environment

[journal article]

Abstract Reference

Complete Reference

Find Similar

Find Citing Articles

Full Text

Bacteria and fungi are primary components in wetland soil microbial communities and provide essential ecosystem functions and services. Understanding responses of bacterial and fungal communities to multiple drivers of environmental change and their interactions is crucial for wetland conservation and management, particularly for those embedded in agricultural landscapes. Yet little is known



Zobrazení označených záznamů

Search History (7)

☐	# ▲ Searches	Results	Type	Actions	Annotations
☐	4 ("species richness" or "species diversity" or biodiversity).ti,sh,hw,id.	197806	Advanced	Display Results More	
☐	5 3 and 4	1099	Advanced	Display Results More	
☐	6 limit 5 to yr="2010 -Current"	757	Advanced	Display Results More	
☐	7 from 6 keep 1, 3-5, 8, 10	6	Advanced	Display Results More	

[Save](#) [Remove](#) **Combine with:** [AND](#) [OR](#) [Deduplicate](#) [Expand](#)

[Save All](#) [Edit](#) [Create RSS](#) [Create Auto-Alert](#) [View Saved](#) [Share Search History](#)

Basic Search Find Citation Search Tools Search Fields **Advanced Search** Multi-Field Search

2 resources selected [Hide](#) [Change](#)

CAB Abstracts & CAB Abstracts Plus Collection Full Text 1990 to Present CAB Abstracts Archive 1910 - 1989

☒ Keyword ☐ Author ☐ Title ☐ Journal

[Search](#)

☐ Include Multimedia ☐ Map Term to Subject Heading

Limits

[Show](#) [Print](#) [Email](#) [Export](#) [My Projects](#) [Keep Selected](#)

☐ All [Range](#) [Clear](#) **View:** [10 Per Page](#)

☐ 1. **Effects of land-use intensity, grazing and fire disturbances on soil bacterial and fungal communities in subtropical wetlands.**
Guo YuXüLiao HuiLingBoughton, E. H.Martens-Habben, W.Qiu JiangXiao
Agriculture, Ecosystems & Environment
[Journal article]

Bacteria and fungi are primary components in wetland soil microbial communities and provide essential ecosystem functions and services. Understanding responses of bacterial and fungal communities to multiple drivers of environmental change and their interactions is crucial for wetland conservation and management, particularly for those embedded in agricultural landscapes. Yet little is known about effect of agricultural land use and wetland management on soil microbial communities in subtropical seasonal wetlands. Here, we used a long-term whole-ecosystem wetland experiment to examine individual and interactive effects of upland land-use intensification, livestock grazing, and prescribed fire on soil bacteria and fungi. We asked: (1) How do land-use intensification, grazing and fire disturbances interact to alter taxonomic composition and functional potential of wetland soil bacterial and fungal communities? (2) To what extent would these management and disturbance effects on wetland microbial communities manifest through alterations in soil properties? Our results showed that both microbial taxonomic and functional composition are responsive to agricultural land use

[Abstract Reference](#)
[Complete Reference](#)
[Find Similar](#)
[Find Citing Articles](#)
[Full Text](#)
 [Zdroje na internetu](#)



Ukládání označených záznamů

The screenshot shows a library catalog interface with a list of records. The first record is selected, and the 'Export' button is highlighted. A red arrow points to the 'Export' button. Below the list, the 'Export Citation(s)' dialog is open, showing '6 Selected: 1-6'. The 'Format' dropdown is set to 'BRS/Tagged'. The 'Field Export Order' section shows a list of fields with checkboxes. The 'Save as template' checkbox is checked, and the 'Template Title' is set to 'Podrobný_zaznam'. A red arrow points to the 'New Custom Export' button. Another red arrow points to the 'Format' dropdown. A third red arrow points to the 'Save as template' checkbox. A fourth red arrow points to the 'Template Title' input field. A fifth red arrow points to the 'Export' button at the bottom of the dialog.

Export Citation(s)
6 Selected: 1-6

Format: BRS/Tagged

Includes:
☒ Link to External Resolver
☐ URL
☒ Search History
☐ Annotations

Look up fields

Field Export Order

☒ au: Author
☒ ti: Title
☒ gb: Geographic Location
☒ ib: ISBN
☒ es: ISSN Electronic
☒ is: ISSN Print
☒ id: Identifiers
☒ lg: Language
☒ od: Organism Descriptors
☒ ab: Abstract
☒ ot: Original Title
☒ pt: Publication Type
☒ pu: Publisher
☒ bt: Broad Terms
☒ so: Source
☒ do: Digital Object Identifier
☒ jn: Journal Name
☒ sh: Subject Headings
☒ sl: Summary Language
☒ ur: URL
☒ yr: Year of Publication

☒ Save as template

Template Title *
Podrobný_zaznam

Cancel Back Export

Export Citation(s)
6 Selected: 1-6

Default: Custom

New Custom Export

Saved Custom Templates

Title	Format	Fields	Resources	Actions
No saved templates yet				

"New Custom Export" – nastavení exportovaných polí záznamů

"Save as template" – uložení nastavení polí exportu záznamů

"Format" – výběr formátu ukládaných záznamů jako textových dokumentů (BRS/Tagged, txt, Microsoft Word, ...) nebo ve formátu nadstavbových programů – citačních manažerů (EndNote, RefWorks, ProCite, RIS,...)

"Link to External Resolver" – odkaz k plnému textu, pokud je dostupný

"Search History" – uložení vyhledávacího profilu k záznamům ukládaným jako textový dokument



Formáty ukládaných záznamů

BRS/Tagged

<1>

AU Mao ZhuXin, Wang YuChao, Li Qian, Li WeiMin, Wang Hong, Li Yang, Yue Ming

TI Deep mowing rather than fire restrains grassland *Miscanthus* growth via affecting soil nutrient loss and microbial community redistribution.

SO *Frontiers in Plant Science* 2023. 14(January). 77 ref.

PU *Frontiers Media S.A.*.

AB Fire and mowing are crucial drivers of grass growth. However, their effects on soil properties, microbial communities, and plant productivity in dry-alkaline grasslands have not been well investigated. This study evaluated the effects of mowing (slightly and deeply) and fire on vegetation traits (Tiller number per cluster and plant height) and biomass (plant dry weight), and soil availability of N, P, and K, as well as soil microorganism abundance in a *Miscanthus* system. We designed one control and three experimental grass plots (slightly and deeply mowed, and burned) in 2020-2021 in the Xi'an Botanical Garden of Shaanxi Province, Xi'an, China. Tiller number, plant height per cluster, and soil N, P, and K availability during *Miscanthus* growth decreased significantly ($p < 0.05$) in all treatments compared to the control. However, this effect was much greater in the deep-mowing plot than in the other plots. After harvest, deep mowing induced the greatest effect on biomass among all treatments, as it induced a 5.2-fold decrease in dry biomass relative to the control. In addition, both fire and mowing slightly redistributed the community and diversity of the soil bacteria and fungi. This redistribution was significantly greater in the deep-mowing plot than in other plots. In particular, relative to the control, deep mowing increased the abundance of Firmicutes and especially Proteobacteria among soil bacterial communities, but significantly ($p < 0.05$) decreased Basidiomycota and increased Ascomycota abundance among soil fungal communities. We conclude that nutrient limitation (N, P, and K) is crucial for *Miscanthus* growth in both mowing and fire grasslands, whereas deep mowing can induce soil nutrient loss and microorganism redistribution, further restraining grass sustainability in dry-alkaline grasslands..

DO <http://dx.doi.org/10.3389/fpls.2022.1105718>.

DE biomass. soil bacteria. species diversity. soil types. soil chemical properties. mowing. grasslands. growth. nutrients. soil flora. microbial communities. plant height. tillers. traits. nutrient availability. nitrogen. phosphorus. potassium. soil fungi. grassland soils. wildfires.

OD *Miscanthus*, Firmicutes, Proteobacteria, Basidiomycota, Ascomycota, Bacteria.

BT APEC countries, East Asia, Asia, high Human Development Index countries, upper-middle income countries, Poaceae, Poales, commelinids, monocotyledons, angiosperms, Spermatophyta, plants, eukaryotes, North Western China, China, Bacteria, prokaryotes, fungi.

GL China. Shaanxi.

ID chemical properties of soil, People's Republic of China, Shensi, pasture soils, bacterium.

LG English.

PT Journal article.

UR <https://www.frontiersin.org/articles/10.3389/fpls.2022.1105718/full>.

ES 1664-462X.

YR 2023

XL [http://resolver.ebscohost.com/openurl?sid=OVID:cabadb&id=pmid:&id=doi:10.3389%2Ffpls.2022.1105718&issn=1664-](http://resolver.ebscohost.com/openurl?sid=OVID:cabadb&id=pmid:&id=doi:10.3389%2Ffpls.2022.1105718&issn=1664-462X&isbn=&volume=14&issue=January&spage=&date=2023&title=Frontiers+in+Plant+Science&atitle=Deep+mowing+rather+than+fire+restrains+grass)

[462X&isbn=&volume=14&issue=January&spage=&date=2023&title=Frontiers+in+Plant+Science&atitle=Deep+mowing+rather+than+fire+restrains+grass](http://resolver.ebscohost.com/openurl?sid=OVID:cabadb&id=pmid:&id=doi:10.3389%2Ffpls.2022.1105718&issn=1664-462X&isbn=&volume=14&issue=January&spage=&date=2023&title=Frontiers+in+Plant+Science&atitle=Deep+mowing+rather+than+fire+restrains+grass)
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Formáty ukládaných záznamů

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¹. Deep mowing rather than fire restrains grassland Miscanthus growth via affecting soil nutrient loss and microbial community redistribution.

Mao ZhuXin, Wang YuChao, Li Qian, Li WeiMin, Wang Hong, Li Yang, Yue Ming

Abstract: Fire and mowing are crucial drivers of grass growth. However, their effects on soil properties, microbial communities, and plant productivity in dry-alkaline grasslands have not been well investigated. This study evaluated the effects of mowing (slightly and deeply) and fire on vegetation traits (Tiller number per cluster and plant height) and biomass (plant dry weight), and soil availability of N, P, and K, as well as soil microorganism abundance in a Miscanthus system. We designed one control and three experimental grass plots (slightly and deeply mowed, and burned) in 2020-2021 in the Xi'an Botanical Garden of Shaanxi Province, Xi'an, China. Tiller number, plant height per cluster, and soil N, P, and K availability during Miscanthus growth decreased significantly ($p < 0.05$) in all treatments compared to the control. However, this effect was much greater in the deep-mowing plot than in the other plots. After harvest, deep mowing induced the greatest effect on biomass among all treatments, as it induced a 5.2-fold decrease in dry biomass relative to the control. In addition, both fire and mowing slightly redistributed the community and diversity of the soil bacteria and fungi. This redistribution was significantly greater in the deep-mowing plot than in other plots. In particular, relative to the control, deep mowing increased the abundance of Firmicutes and especially Proteobacteria among soil bacterial communities, but significantly ($p < 0.05$) decreased Basidiomycota and increased Ascomycota abundance among soil fungal communities. We conclude that nutrient limitation (N, P, and K) is crucial for Miscanthus growth in both mowing and fire grasslands, whereas deep mowing can induce soil nutrient loss and microorganism redistribution, further restraining grass sustainability in dry-alkaline grasslands.

Author: Mao ZhuXin, Wang YuChao, Li Qian, Li WeiMin, Wang Hong, Li Yang, Yue Ming

Digital Object Identifier: <http://dx.doi.org/10.3389/fpls.2022.1105718>

Geographic Location: China, Shaanxi

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Journal Name: Frontiers in Plant Science

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Source: Frontiers in Plant Science 2023. 14(January). 77 ref.

Subject Headings: biomass, soil bacteria, species diversity, soil types, soil chemical properties, mowing, grasslands, growth, nutrients, soil flora, microbial communities, plant height, tillers, traits, nutrient availability, nitrogen, phosphorus, potassium, soil fungi, grassland soils, wildfires

Title: Deep mowing rather than fire restrains grassland Miscanthus growth via affecting soil nutrient loss and microbial community redistribution.

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Author

Mao ZhuXin; Wang YuChao; Li Qian; Li WeiMin; Wang Hong; Li Yang; Yue Ming

Title

Deep mowing rather than fire restrains grassland Miscanthus growth via affecting soil nutrient loss and microbial community redistribution.

Source

Frontiers in Plant Science 2023. 14(January). 77 ref.

Publisher

Frontiers Media S.A.

Abstract

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Digital Object Identifier

<http://dx.doi.org/10.3389/fpls.2022.1105718>

Subject Headings

biomass

soil bacteria



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The screenshot displays the 'My Projects' interface. At the top, there is a navigation bar with a '> Show' button and several action icons: 'Print', 'Email', 'Export', '+ My Projects' (highlighted with a red box and a green '1' with an arrow), and 'Keep Selected'. Below this is a filter section with a checked 'All' button (highlighted with a green '2' with an arrow), a 'Range' input, a 'Clear' button, a 'View' dropdown showing three icons, and a '10 Per Page' dropdown. The main content area shows a list of projects. The first project is titled 'Effects of land-use intensity, grazing and fire disturbances on soil bacterial and fungal communities in subtropical wetlands.' by Guo YuXi, Liao Hui, Ling Boughton, E. H. Martens-Habbena, W. Qiu, and Jiang Xiao. It is categorized under 'Agriculture, Ecosystems & Environment' and is a '[Journal article]'. A snippet of the article text is visible: 'Bacteria and fungi are primary components in wetland soil microbial communities and provide essential ecosystem functions and services. Understanding responses of bacterial and fungal communities to multiple drivers of environmental change and their interactions is crucial for wetland conservation and management, particularly for those embedded in agricultural landscapes. Yet little is known about effect of agricultural land use and wetland'. On the right side, there is a sidebar with options: 'Abstract Reference', 'Complete Reference', 'Find Similar', 'Find Citing Articles', 'Full Text', a 'PLNÝ TEXT' button, and 'Zdroje na internetu'.

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