

A Wiley termékek áttekintése és hatása

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Scientific Knowledge Services



The background of the slide features a row of wind turbines silhouetted against a vibrant sunset sky. The sun is low on the horizon, creating a warm glow of orange and yellow light that transitions into a darker blue and purple at the top. The turbines are of varying heights and are positioned across the frame, with some in the foreground and others receding into the distance. A decorative border of small, glowing white dots follows the curve of the top and right edges of the slide.

Wiley folyóiratok:

- Journal Citation Report statisztikák
- Portfólió
- Wiley Online Library
- Wiley fejlesztések és újdonságok
- Fő statisztikák
- Publikációs információk Magyarországról



**WILEY
FOLYÓIRATOK**

A Wiley portfóliójában több mint 6 millió cikket találhatunk 1,400-nál több folyóiratból, mely a tudományok és szakterületek teljes spektrumát lefedik.



WILEY



Folyóirat gyűjtemények

Kiváló ár-érték arányt nyújtanak intézményeknek, amelyek ki szeretnék szélesíteni elektronikus információlefedettségüket, vagy minden címet el szeretnének érni a teljes gyűjteményre való feliratkozással.

- Science, Technology & Medicine Collection 816
- Medicine & Nursing Collection 407
- Social Sciences & Humanities Collection 574
- Full Collection 1,391

Thomson Reuters® Journal Citation Report® (JCR) 2016 Június. Az eredmények szerint a Wiley folyóiratok 58%-a megnövelte hatásfokát 2014-től 2015-ig.

A Journal Citation Report kiemelt pontjai:

- 73% –a a Wiley folyóiratoknak rendelkezik hatásfokkal (Impact Factor)
- 367 Wiley folyóirat került be a top 10 folyóiratlistára
- 12% - a JCR összes citációjának Wiley címekből áll össze
- 11%- a a JCR összes cikkének a Wiley által kiadott cikk

* The JCR provides an annual assessment of a journal's standing in scholarly literature through the objective evaluation of statistical information. The index tracks over 11,000 journals across 237 disciplines in 82 countries.

WILEY TÉNYEK



1,400+
WILEY
FOLYÓIRAT

15

Millió
Egyesületi Tag



490+

Nobel díjas
szerző

850+

Egyesületi Partner

↓ 897

Millió fizetős letöltés

500K

Publikált kutatók száma
évente

KIEMELKEDŐ TELJESÍTMÉNY A 2015-ÖS JCR ALAPJÁN



1,204

Wiley folyóiratok száma a
JCR jelentésben

367 TOP **10**

Helyezések száma
JCR kategóriákban

628

Megnövekedett IF pontú
folyóiratok száma

6,164,234

Citációk
Wiley Journals
2015

Wiley Journals
kategóriákban
218
233 össz JCR
kategóriában

Wiley számadatakkal a JCR-ban

- 1204 folyóirat szerepelt (A JCR-ban szereplő összes folyóirat 11%-a ez a szám, és egyben a teljes Wiley portfólió 70%-a)
 - 1200 folyóirathoz képest az előző évben +4, Összesítésben **3. helyezett.**
- 139,639 cikk szerepelt (A teljes JCR 9%-a) – Összesítésben **3.helyezett.**
- 6 164 372 idézet szerepelt (A teljes JCR report tartalom 12%-a) – Összesítésben **3.helyezett.**

Helyezések

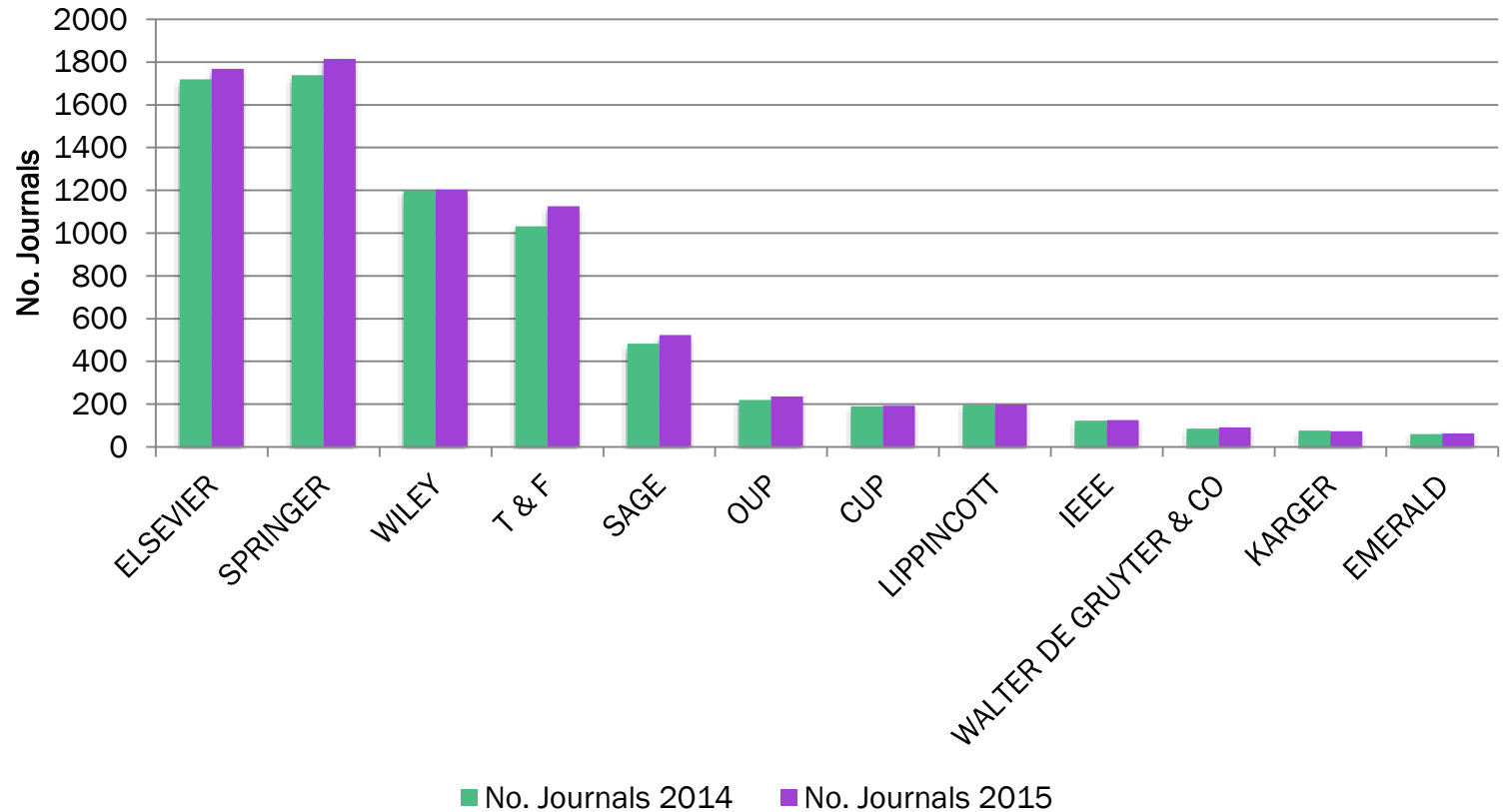
26 folyóirat ért el felső kategóriás helyezést. (24 ezt megelőzően)

33 kategóriában Wiley folyóiratok lettek az elsők. (27 ezelőtt)

260 került be top 10-es kategória helyezésbe (240 ezt megelőzően)

Az összes folyóiratok közül 367 lett top 10-es (338 ezt megelőzően)

Folyóiratok száma kiadókként a JCR-ban



Wiley folyóiratok arányai számokban

	SPRINGER Nature	ELSEVIER	WILEY	T & F	SAGE	OUP	LIPPINCOTT	CUP
% Titles	16%	16%	11%	10%	5%	2%	2%	2%
% 2015 Articles	16%	16%	9%	5%	2%	2%	2%	2%
% 2015 Cites	12%	27%	12%	3%	2%	3%	3%	1%
Titles in No. 1 Position in JCR	23	60	26	7	10	6	4	4

Wiley a kategóriákban

A JCR 233 kategóriájából 218-ban szerepelnek Wiley folyóiratok.

- 33 kategóriában a Wiley-nak a legnagyobb a folyóirat-részesedése
- 35 kategóriában büszkélkedhet a legtöbb idézettel
- 19 kategóriában rendelkezik a legtöbb cikkel

A következő 10 kiemelt kategóriában a Wiley folyóiratoknak van a legnagyobb része, mind folyóirat-, mind citáció- és cikkek számait tekintve.

- Anatómia és Morfológia
- Antropológia
- Demográfia
- Dermatológia
- Ökológia
- Rovartan
- Evolúciós Biológia
- Madártan
- Közigazgatás
- Transzplantáció

Wiley a Társadalomtudományokban (JCR)

- **Folyóiratok:** 418 in the Social Science JCR (*13% of the SS JCR*) – **2.helyezett**
- **Cikkek:** 20,067 in the Social Science JCR (*12% of the SS JCR*) – **3.helyezett**
- **Idézetek:** 817,044 in the Social Science JCR (*16% of the SS JCR*) – **2.helyezett**

Társadalomtudományok JCR – Folyóiratok száma

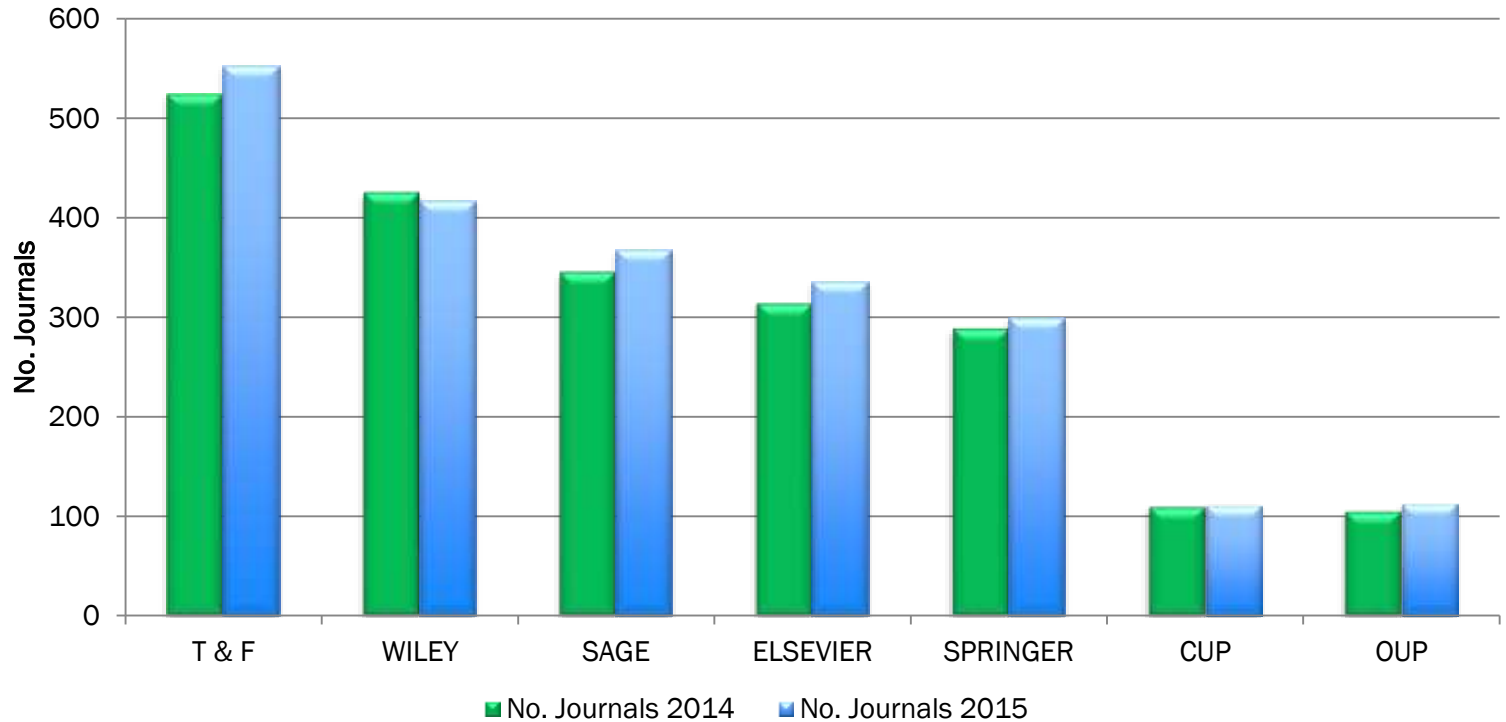


Diagram: idézetek, 2015 JCR (társadalomtudományi)

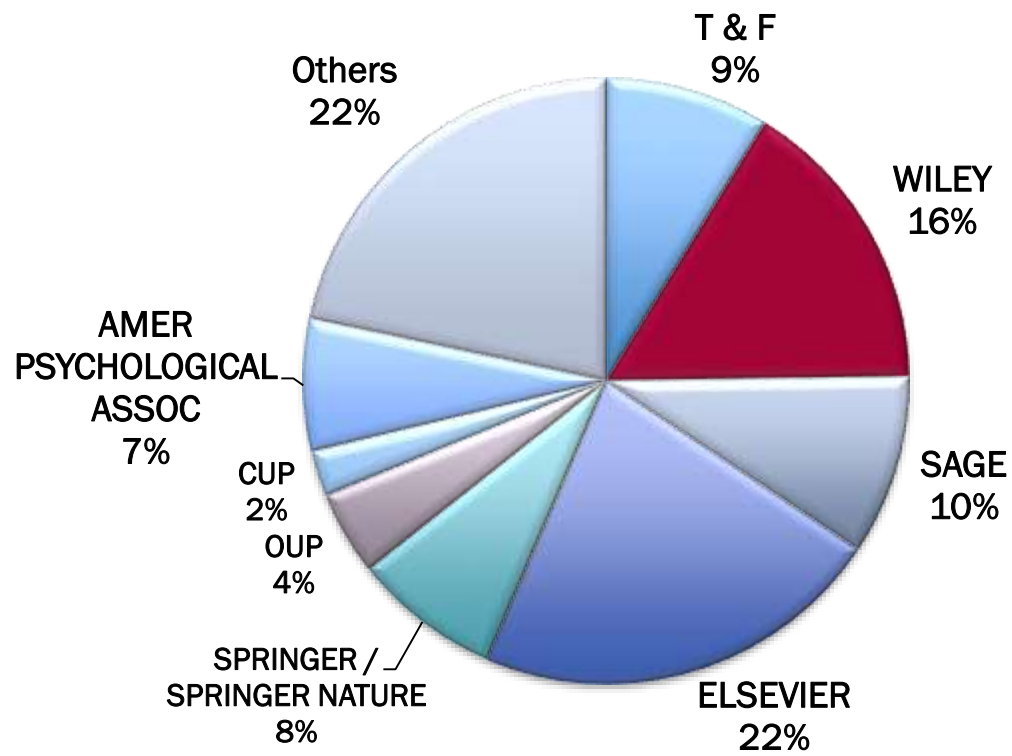
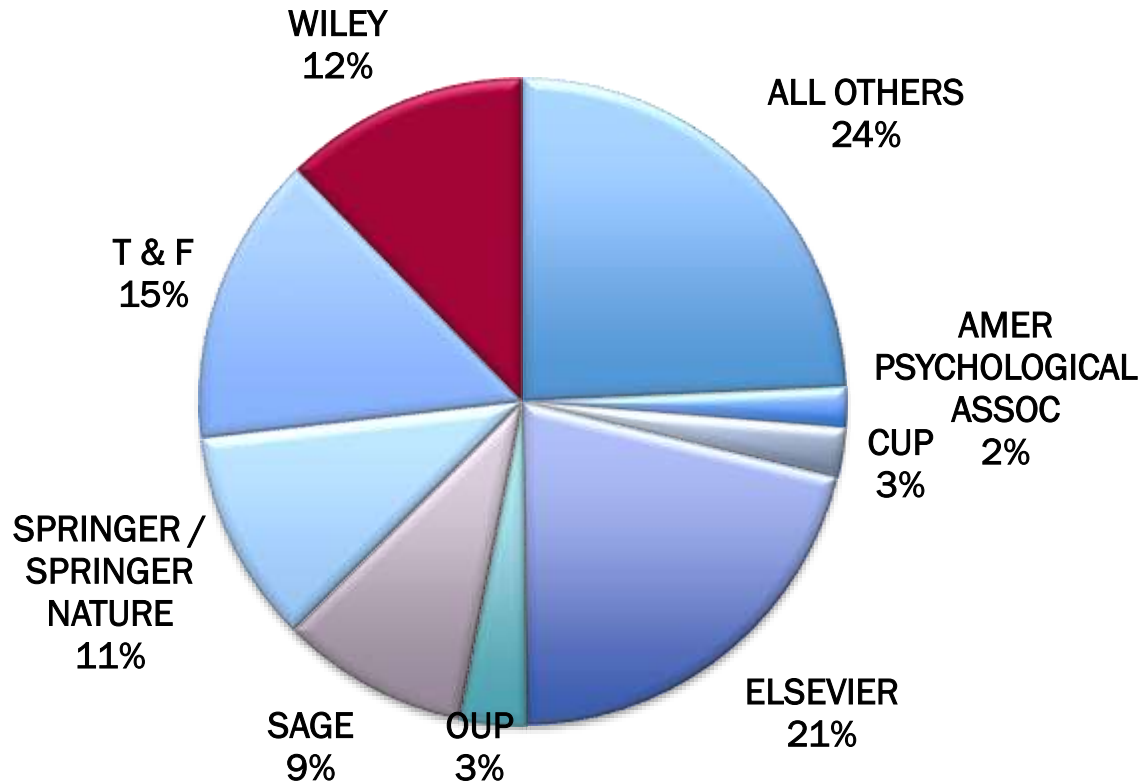


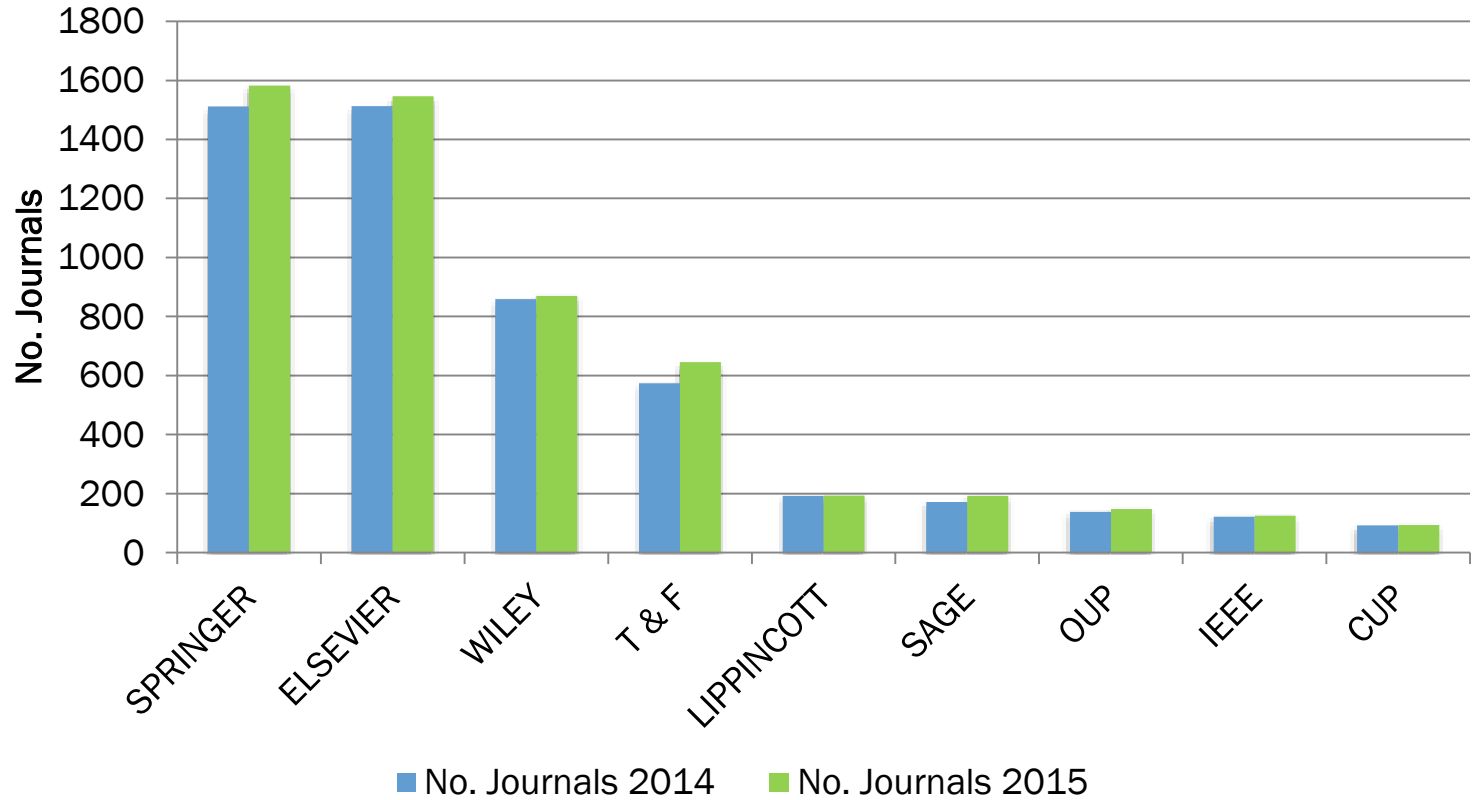
Diagram: cikkek száma a 2015-ös társadalomtudományi JCR-ban



Wiley a tudományokban (JCR)

- **Folyóiratok:** 870 (10% - a teljes Science JCR-nak) – **3.helyezett**
- **Cikkek:** 126,196 (9% - a teljes Science JCR-nak) – **3.helyezett**
- **Idézetek:** 5,626,131 (12% - a teljes Science JCR-nak) – **3.helyezett**

STM JCR – Folyóiratok száma

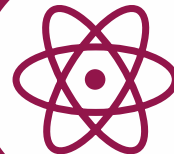


Categories with a Top-Ranked Wiley Journal

Subject	Top-Ranked Journal	No. Wiley Journals in Category	2015 Articles	2015 Cites
Agronomy	GLOBAL CHANGE BIOLOGY BIOENERGY	11	929	28,754
Biodiversity Conservation	GLOBAL CHANGE BIOLOGY	7	967	69,689
Biology	BIOLOGICAL REVIEWS	7	661	46,513
Business, Finance	JOURNAL OF FINANCE	24	889	50,705
Chemistry, Applied	ADVANCED SYNTHESIS & CATALYSIS	8	1,290	46,578
Communication	JOURNAL OF COMPUTER-MEDIATED COMMUNICATION	6	218	13,116
Computer Science, Interdisciplinary Applications	COMPUTER-AIDED CIVIL AND INFRASTRUCTURE ENGINEERING	6	439	9,083
Construction & Building Technology	COMPUTER-AIDED CIVIL AND INFRASTRUCTURE ENGINEERING	8	551	8,400
Demography	PERSPECTIVES ON SEXUAL AND REPRODUCTIVE HEALTH	6	237	9,949
Dentistry, Oral Surgery & Medicine	PERIODONTOLOGY 2000	24	2,041	71,284
Engineering, Civil	COMPUTER-AIDED CIVIL AND INFRASTRUCTURE ENGINEERING	9	738	12,039
Family Studies	PERSPECTIVES ON SEXUAL AND REPRODUCTIVE HEALTH	10	437	18,871
Fisheries	FISH AND FISHERIES	11	1,339	36,976
Geography, Physical	GLOBAL ECOLOGY AND BIOGEOGRAPHY	8	696	38,474
History of Social Sciences	ECONOMIC HISTORY REVIEW	4	112	1,942
Limnology	WATER RESOURCES RESEARCH	4	822	71,322
Mathematical & Computational Biology	WILEY INTERDISCIPLINARY REVIEWS-COMPUTATIONAL MOLECULAR SCIENCE	7	604	43,506
Mathematics, Applied	COMMUNICATIONS ON PURE AND APPLIED MATHEMATICS	9	1,075	21,453
Nuclear Science & Technology	INTERNATIONAL JOURNAL OF ENERGY RESEARCH	1	160	4,116
Oncology	CA-A CANCER JOURNAL FOR CLINICIANS	20	3,745	224,682
Ornithology	JOURNAL OF AVIAN BIOLOGY	3	189	8,234
Paleontology	PALEOCEANOGRAPHY	5	216	13,273
Political Science	AMERICAN JOURNAL OF POLITICAL SCIENCE	23	911	31,803
Psychiatry	WORLD PSYCHIATRY	21	1,586	92,707
Psychiatry (Social Science)	WORLD PSYCHIATRY	20	1,451	88,238
Psychology, Mathematical	BRITISH JOURNAL OF MATHEMATICAL & STATISTICAL PSYCHOLOGY	2	46	2,362
Social Sciences, Mathematical Methods	ECONOMETRICA	8	418	42,080
Soil Science	LAND DEGRADATION & DEVELOPMENT	4	339	13,425
Spectroscopy	MASS SPECTROMETRY REVIEWS	9	1,066	42,470
Substance Abuse	ADDICTION	3	544	33,342
Substance Abuse (Social Science)	ADDICTION	3	377	21,115
Transportation Science & Technology	COMPUTER-AIDED CIVIL AND INFRASTRUCTURE ENGINEERING	2	117	2,473
Zoology	WILDLIFE MONOGRAPHS	19	1,444	89,447

**KIEMELÉSEK
FIZIKAI
TUDOMÁNYOK
BAN**

- **278 Folyóirat**
- **90+ egyesületi partner**
- **219 folyóirat a JCR-ban**
- **6 folyóirat 1. helyezést ért el a fizika kategóriákban**





Kiemelések a
**KÉMIA
TERÜLETÉN**

100 folyóirat

50+ egyesületi partner

15 folyóirat a felső 10-ben

Wiley/Wiley-VCH (korábban Verlag Chemie)
A kémia területén piacvezető.

Néhány példa a portfólióból:
*Általános kémia: Angewandte Chemie
International,*
*Speciális területek: Fuel Cells and
ChemSusChem,*

*Backfiles, E-könyvek archívum egészen 1832-
vel bezárólag*

Világszerte több mint 50 kémiai társaság
partnere, 500,000 tag részvételével.
Az összes kémiai Nobel-díjazott 97%-a
Wiley/Wiley-VCH- ben publikált.

WILEY

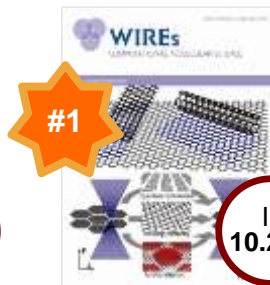
KEY JOURNALS



IF
11.709

**Angewandte Chemie
International Edition**

2015 JCR Ranking:
11/163
Chemistry,
Multidisciplinary Category



#1

IF
10.234

**Wiley Interdisciplinary
Reviews – Computational
Molecular Science**

2015 JCR Ranking:
1/56
Mathematical &
Computational Biology
Category



#1

IF
9.346

**Mass Spectrometry
Reviews**

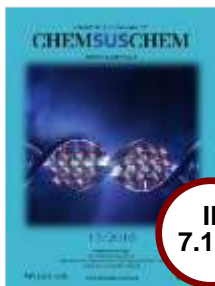
2015 JCR Ranking:
1/43
Spectroscopy Category



IF
9.135

**Medicinal Research
Reviews**

2015 JCR Ranking:
2/59
Medicinal Chemistry
Category



IF
7.116

ChemSusChem

2015 JCR Ranking:
2/29
Green & Sustainable
Science & Technology
Category



#1

IF
6.453

**Advanced Synthesis &
Catalysis**

2015 JCR Ranking:
1/71
Chemistry Applied
Category



IF
5.771

**Chemistry –
A European Journal**

2015 JCR Ranking:
24/163
Chemistry,
Multidisciplinary Category



IF
4.724

ChemCatChem

2015 JCR Ranking:
29/144
Chemistry, Physical
Category

WILEY



JOURNAL HIGHLIGHTS IN MATERIALS SCIENCE

A Journal Citation Reports® alapján az anyagtudományokban a Wiley vezető szerepet vívott ki magának.

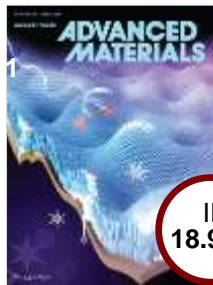
Összesen 42 Wiley folyóiratot listázott a JCR anyagtudományi PI: Ceramics and Nanoscience & Nanotechnology. IF alapján 14 cím került a top 10-be, pl: *Advanced Materials* folyóirat-család és az American Ceramic Society által kiadott folyóiratok.

65+ folyóirat

5 egyesülettel partner

14 folyóirat a top 10 JCR kategóriákban

KEY JOURNALS



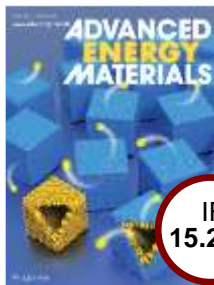
IF
18.960

Advanced Materials

2015 JCR Ranking:
5/271

Materials Science,
Multidisciplinary Category
2/83

Nanoscience &
Nanotechnology Category



IF
15.230

Advanced Energy Materials

2015 JCR Ranking:
7/271

Materials Science,
Multidisciplinary Category
3/88

Energy & Fuels Category



IF
11.382

Advanced Functional Materials

2015 JCR Ranking:
12/271

Materials Science,
Multidisciplinary Category
7/83

Nanoscience &
Nanotechnology Category



IF
8.315

Small

2015 JCR Ranking:
20/271

Materials Science,
Multidisciplinary Category
10/83

Nanoscience &
Nanotechnology Category



IF
5.760

Advanced Healthcare Materials

2015 JCR Ranking:
3/33

Materials Science,
Biomaterials Category



IF
2.787

Journal of the American Ceramic Society

2015 JCR Ranking:
2/27

Materials Science,
Ceramics Category



IF
1.534

International Journal of Applied Ceramic Technology

2015 JCR Ranking:
6/27

Materials Science,
Ceramics Category



IF
1.843

International Journal of Applied Glass Science

2015 JCR Ranking:
4/27

Materials Science,
Ceramics Category

WILEY



Kiemelések a **FIZIKA** **TERÜLETÉN**

40+ folyóirat

4 egyesületi partner

14 folyóirat top 10 helyezett IF alapján minden fizikai kategóriában, az optikát is beleértve

A Wiley széles körben kínál fizikai folyóiratokat, alkalmazott- és kondenzált anyagtudományoktól kezdve optikaspecifikus folyóiratokon át a spektroszkópiáig, biofizikáig, geofizikáig.

Olyan ismert egyesületekkel és társaságokkal dolgozunk, mint például az *American Geophysical Union*, *ChemPubSocEurope* és a *Deutsche Physikalische Gesellschaft*.

Minőségi törekvésünket tükrözi a 2016-ban megjelent Journal Citation Reports® melyben számos folyóirat Top 10-ben végzett kategóriákon belül.

KEY JOURNALS



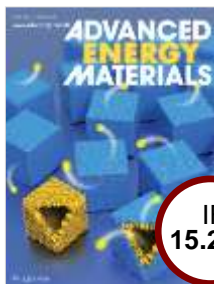
IF
18.960

Advanced Materials

2015 JCR Ranking:
2/67

Physics, Condensed Matter
Category
4/145

Physics, Applied Category



IF
15.230

Advanced Energy Materials

2015 JCR Ranking:
5/67

Physics, Condensed Matter
Category
5/145

Physics, Applied Category



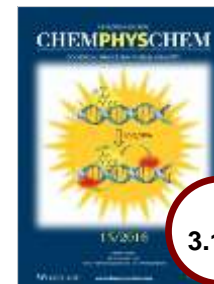
IF
11.382

Advanced Functional Materials

2015 JCR Ranking:
7/67

Physics, Condensed Matter
Category
9/145

Physics, Applied Category



IF
3.138

ChemPhysChem A Journal of ChemPubSoc Europe

2015 JCR Ranking:
8/35

Physics, Atomic,
Molecular & Chemical
Category

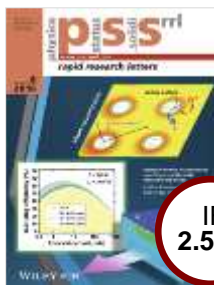


IF
3.991

Fortschritte der Physik – Progress in Physics

2015 JCR Ranking:
8/79

Physics, Multidisciplinary
Category



IF
2.578

physica status solidi – Rapid Research Letters

2015 JCR Ranking:
21/67

Physics, Condensed Matter
Category
35/145

Physics, Applied Category
**pss RRL is currently the fastest
peer-reviewed publication
medium in solid state physics.**



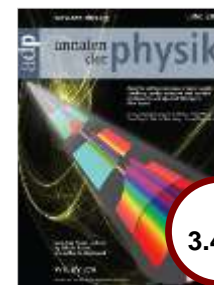
IF
7.486

Laser & Photonics Reviews

2015 JCR Ranking:
4/90

Optics
13/145
Physics, Applied Category
10/67

Physics, Condensed Matter
Category



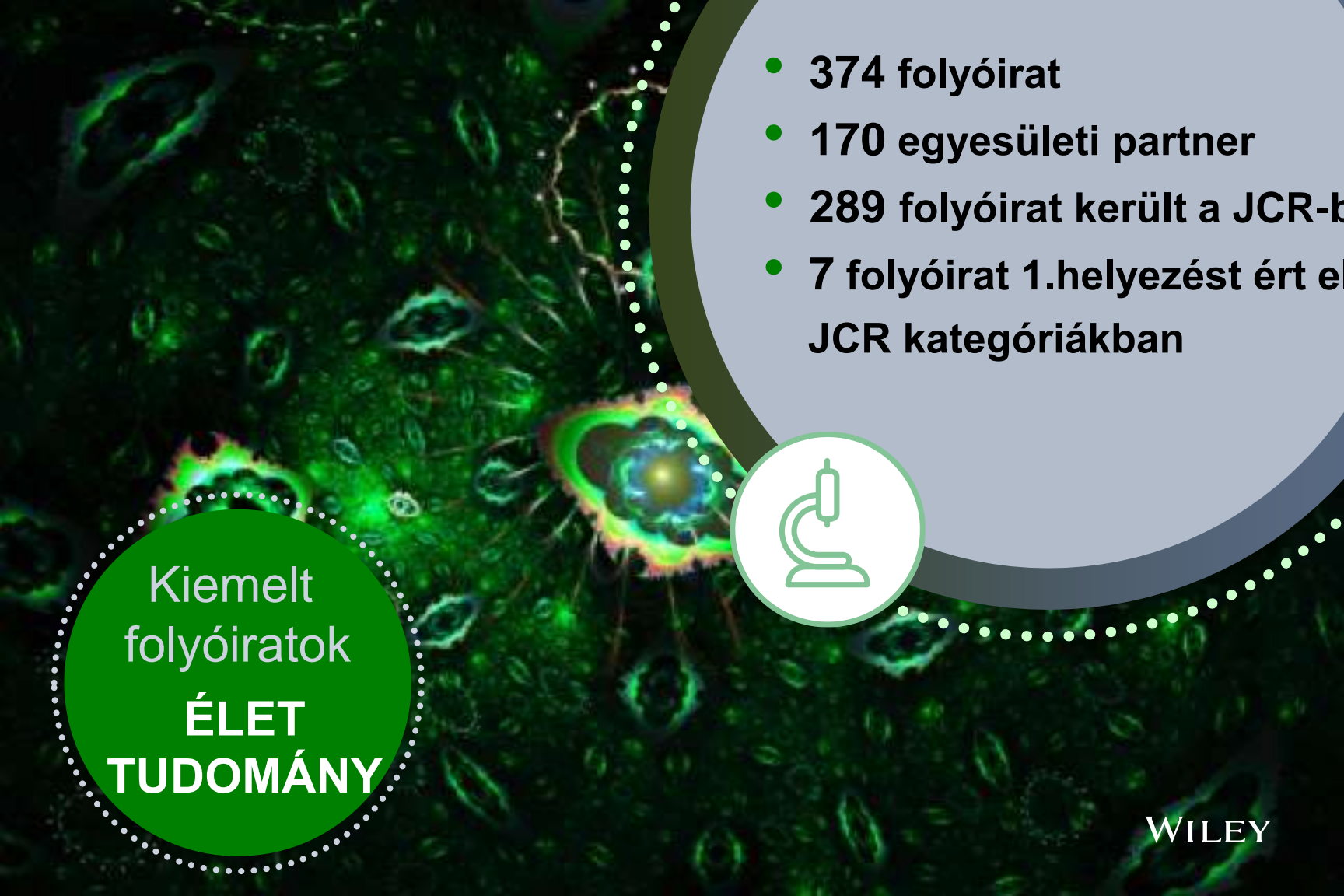
IF
3.443

Annalen der Physik

2015 JCR Ranking:
11/79

Physics, Multidisciplinary
Category

WILEY



- 374 folyóirat
- 170 egyesületi partner
- 289 folyóirat került a JCR-b
- 7 folyóirat 1.helyezést ért el a JCR kategóriákban



Kiemelt
folyóiratok
**ÉLET
TUDOMÁNY**



- 349 folyóirat
- 325 folyóirat került be a JRC-ba
- 4 folyóirat lett 1. helyezett
- 195+ egyesületi partner



Folyóirat
kiemelések
**EGÉSZSÉG
TUDOMÁNY**

WILEY



Kiemelések
GYÓGYÁSZAT

● **242 folyóirat**

● **150+ egyesületi partner**

● **7 folyóirat ért el 1. és 2. helyezést a JCR-ban kategóriájukban**

3 gyógyászati folyóirat lett 1. helyezett saját kategóriájában:

CA-A Cancer Journal of Clinicians
World Psychiatry
Addiction.

CA-A Cancer Journal of Clinicians már több éve 1.helyezett az Onkológia területén

Wiley OA gyógyászati témájú folyóiratok közül helyezettként 7 került be a JCR-ba.

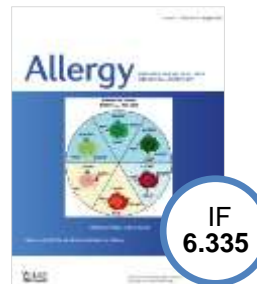
**TOP
RANKING
JOURNALS**



A Cancer Journal for Clinicians
2015 JCR Ranking:
1/213
Oncology Category



World Psychiatry
2015 JCR Ranking:
1/140
Psychiatry Category



Allergy
2015 JCR Ranking:
2/25
Allergy Category



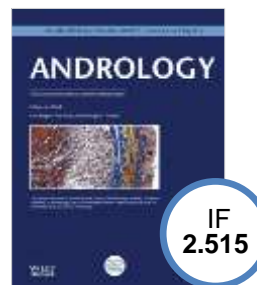
Contact Dermatitis
2015 JCR Ranking:
2/61
Dermatology Category



American Journal of Transplantation
2015 JCR Ranking:
2/25
Transplantation Category



Addiction
2015 JCR Ranking:
1/18
Substance Abuse Category



Andrology
2015 JCR Ranking:
2/5
Andrology Category



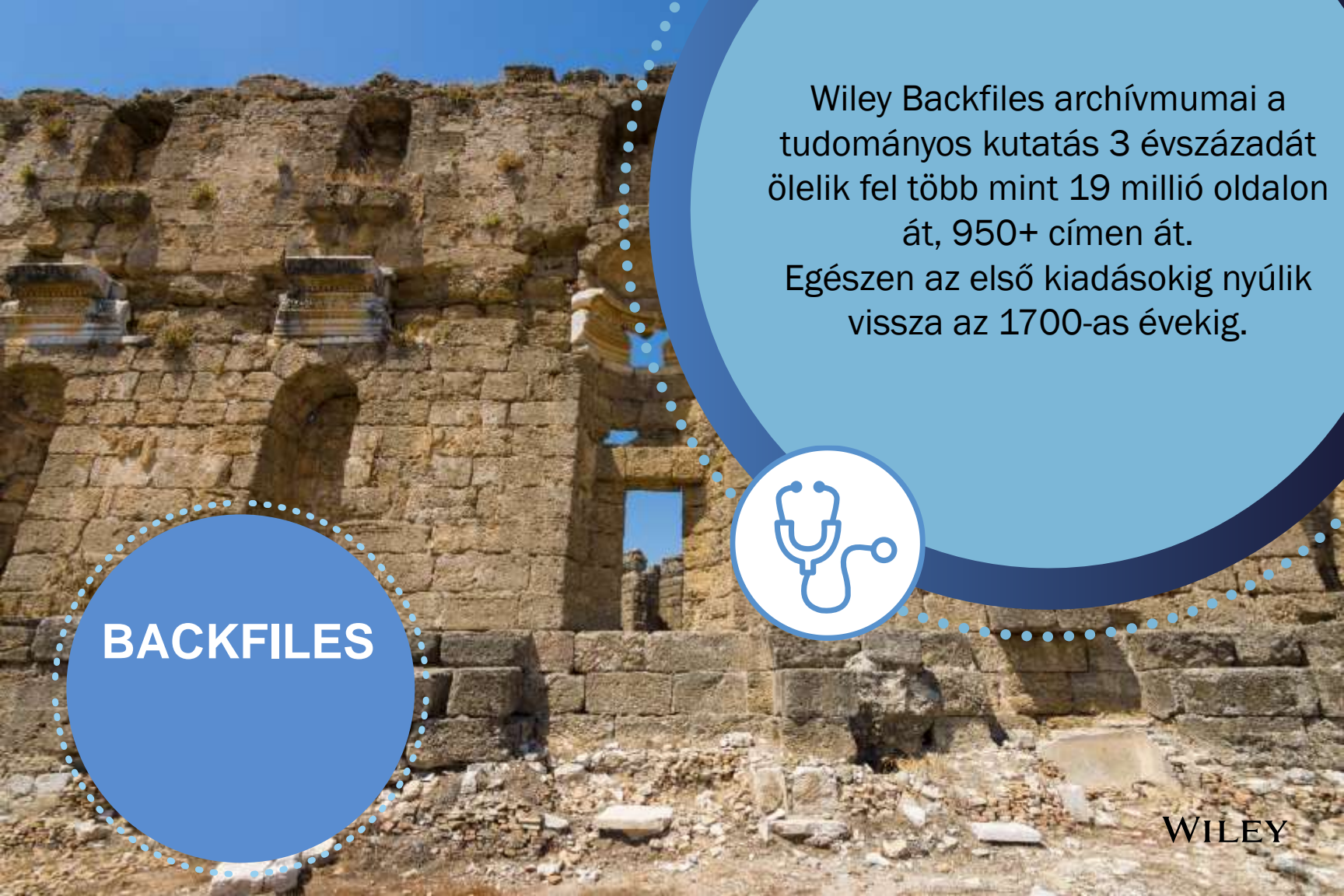
The Journal of Pathology
2015 JCR Ranking:
3/78
Pathology Category



**TÁRSADALOM-
TUDOMÁNYOK
ÉS
BÖLCSÉSZET-
TUDOMÁNY**

- **590 folyóirat**
- **280+ egyesületi partner**
- **352 folyóirat szerepelt a JCR-**
- **6 folyóirat 1. helyezett lett**





Wiley Backfiles archívumai a tudományos kutatás 3 évszázadát ölelik fel több mint 19 millió oldalon át, 950+ címen át. Egészen az első kiadásokig nyúlik vissza az 1700-as évekig.



BACKFILES

WILEY

Journal Backfile Collections published	# Titles	Journal Backfile Collections published	# Titles
AGU Backfile	16	Economics, Finance & Accounting	48
Analytical Sciences	12	Education	29
Aquaculture & Fish Sciences	8	Food Science, Technology & Agriculture	26
Biology	46	Genetics & Evolution	15
Biotechnology, Biochemistry & Biophysics	21	Geography & Development	21
Business & Management	51	History & Archaeology	15
Cell & Developmental Biology	19	Language & Linguistics	8
Chemistry	24	Law	13
Chemistry Societies: Annalen, Angewandte, Berichte, etc	4	Literature, Cultural Studies & Art	17
Chemistry II	11	Materials Science	16
Civil Engineering		Medicine and Nursing Collection (incl 18 sub-collections)	

Journal Backfile Collections

Titles published

Physics & Astronomy

9

Politics

19

Polymer

12

Psychology

63

Religion & Theology

9

Sociology, Social Policy, Social Welfare & Anthropology

17

Tribology

3

Veterinary Medicine

17



Wiley Online Library Platform áttekintés



WILEY

Access Icons



Ingyenes tartalom



Ingyenes OnlineOpen
(hibrid folyóiratok)



Feliratkozás által elért
tartalom

Felület - Böngészés

The screenshot shows the Wiley Online Library homepage. At the top, a teal navigation bar contains the links: Publications, Browse By Subject (highlighted with a red box), Resources, and About Us. Below this is a banner with the text "WILEY PUSHES BOUNDARIES" and a globe icon. The main content area is divided into several sections:

- SEARCH:** A search bar with a dropdown menu showing "All content" and "Publication titles", and buttons for "Advanced search" and "Saved search".
- BROWSE:** A vertical list of subject categories, including Agriculture, Architecture & Planning, Business, Chemistry, Computer Science, Earth, Humanities, Law & Criminology, Life Sciences, Mathematics & Statistics, and Medicine. This section is highlighted with a large red rounded rectangle.
- RESOURCES:** A section with sub-sections for Training, For researchers, For librarians, For societies, and For authors & reviewers, each with a brief description.
- TRAINING AND TUTORIALS:** A teal box stating "Self-paced tutorials available 24/7".
- REGISTER FOR ALERTS:** A yellow box with RSS and email icons.
- OPEN ACCESS:** A purple box with a padlock icon.

At the bottom right, a white box contains the URL wileyonlinelibrary.com.

Felület - Keresések



Advanced Search | [Search Tips >](#)

SEARCH FOR

	<input type="text"/>	All Fields ▼
AND ▼	<input type="text"/>	All Fields ▼
AND ▼	<input type="text"/>	All Fields ▼

[Add another row >](#) **Search**

SPECIFY DATE RANGE

All Dates

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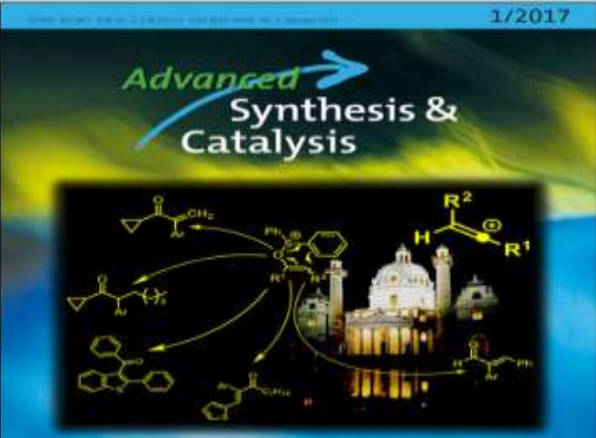
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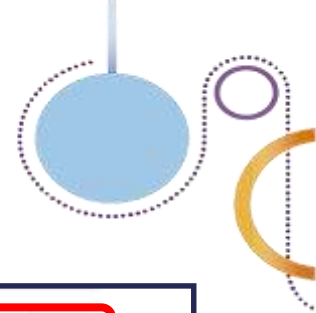


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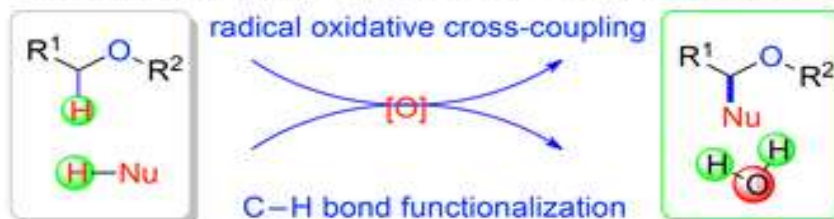
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Recent Advances of Oxidative Radical Cross-Coupling Reactions: Direct α -C(sp^3) –H Bond Functionalization of Ethers and Alcohols (pages 2–25)

Sheng-rong Guo, Paila Santhosh Kumar and Minghua Yang

Version of Record online: 21 SEP 2016 | DOI: 10.1002/adsc.201600467

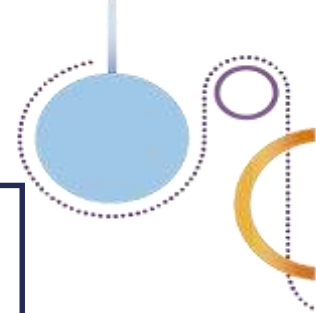


$R^2 = \text{H, alkyl, aryl}$

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Review

Recent Advances of Oxidative Radical Cross-Coupling Reactions: Direct α -C(sp^3)-H Bond Functionalization of Ethers and Alcohols

Sheng-rong Guo[✉], Palli Santhosh Kumar, Minghua Yang[✉]

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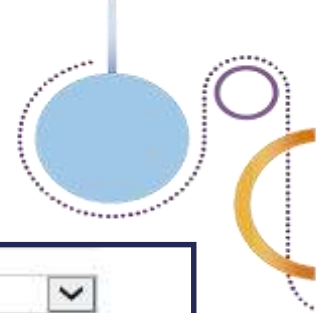
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Abstract

Oxygen-containing heterocycles are an important class of compounds with diverse biological activities. In recent years, direct α -C-H functionalization of inexpensive and abundant readily available ethers and alcohols by oxidative radical cross-coupling with different nucleophilic partners (C-H, N-H, O-H and S-S), leading to the construction of C-C and C-X (X=C, N, O, S) bonds, has emerged as one of the vital strategies among oxidative cross-coupling reactions. Owing to the features of being atom-economic, environmentally benign, having a simple operation and biological properties, a series of ether α -C(sp^3)-H bond activation reactions have been developed by metal or metal-free systems via the radical oxidative coupling pathway, since the radical oxidative coupling reactions have wide range of applications. This review aims to highlight the recent advances in direct α -C(sp^3)-H bond functionalization of ethers and alcohols via radical oxidative process.

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 **Recent Advances of Oxidative Radical Cross-Coupling Reactions: Direct α -C(sp^3)-H Bond Functionalization of Ethers and Alcohols (pages 2–25)**

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$R^1-CH_2-O-R^2$
 $H-Nu$


radical oxidative cross-coupling



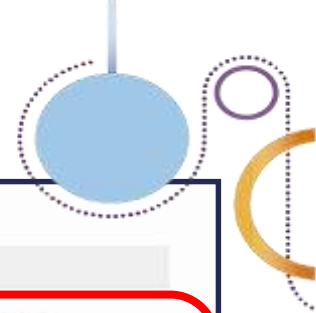
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$R^1-CH_2-O-R^2$
 $Nu-CH_2-O-R^2$

$R^2 = H, \text{ alkyl, aryl}$
 $R^1 = H, \text{ alkyl}$

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Recent Advances of Oxidative Radical Cross-Coupling Reactions: Direct α -C(sp^3)-H Bond Functionalization of Ethers and Alcohols

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Abstract

Oxygen-containing heterocycles are an important class of compounds with diverse biological activities. In recent years, direct α -C–H functionalization of inexpensive and abundant readily available ethers and alcohols by oxidative radical cross-coupling with different nucleophilic partners (C–H, N–H, O–H and S–S), leading to the construction of C–C and C–X (X=C, N, O, S) bonds, has emerged as one of the vital strategies among oxidative cross-coupling reactions. Owing to the features of being atom-economic, environmentally benign, having a simple operation and biological properties, a series of ether α -C(sp^3)-H bond activation reactions have been developed by metal or metal-free systems via the radical oxidative coupling pathway, since the radical oxidative coupling reactions have wide range of applications. This review

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Abstract

Oxygen-containing heterocycles are important synthetic building blocks with diverse biological activities. In recent years, direct α -C-H functionalization of readily available ethers and alcohols by oxidative radical cross-coupling reactions with various partners (C-H, N-H, O-H and S-S), leading to the construction of C-C and C-X (X=C, N, O, S) bonds, has emerged as one of the vital strategies among oxidative cross-coupling reactions. Owing to the features of being atom-economic, environmentally benign, having a simple operation and biologically properties, a series of ether α -C(sp^3)-H bond activation reactions have been developed by metal or metal-free systems via the radical oxidative coupling pathway, since the radical oxidative coupling reactions have wide range of applications. This review aims to highlight the recent advances in direct α -C(sp^3)-H bond functionalization of ethers and alcohols via radical oxidative process.

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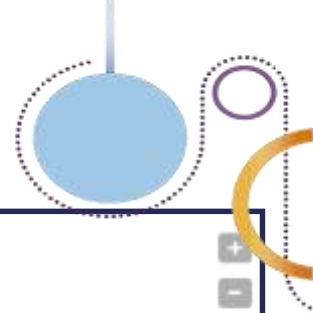


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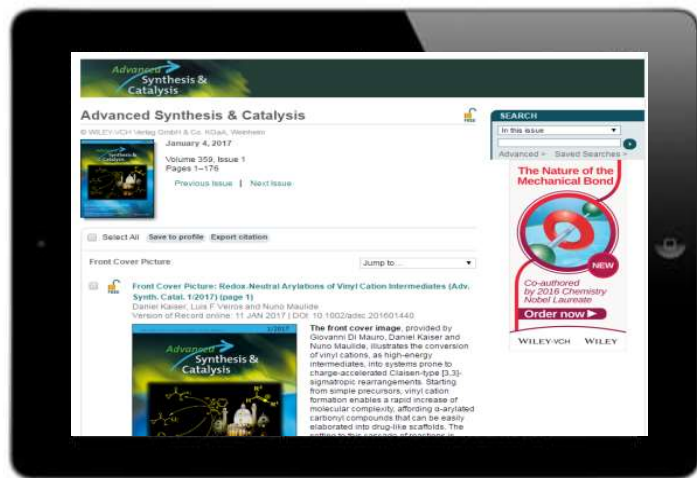
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- Figure 1:** A chemical reaction scheme showing the synthesis of a complex molecule. The scheme includes starting materials like 'Substrate (biologically active ether compound)', 'Cu(OAc)₂·2H₂O', 'MeI', and 'Cu(OAc)₂·2H₂O', and products like '1-iodoethane' and 'Target molecule (drug)'. The reaction is labeled 'A = 4 PPTs'.
- Caption:** 'Figure 1: Selected biologically active ether compounds.'
- Section Header:** '2 Direct C–C Bond and C–X (X=O, N, S) Bond Formation via Radical Oxidative Coupling'.
- Text:** 'The oxidative cross-coupling reaction has now become the most useful tool to construct C–C bonds and has attracted much attention owing to little or no requirement for substrate prefunctionalization. [1][2][6] In this section, we mainly discussed the formation of C–C bond between ethers and other nucleophilic reagents under different oxidative conditions.'
- Section Header:** '2.1 Direct C–C Bond Formation via Radical Cation Process'.
- Text:** 'Radical cations, usually generated from a single electron oxidation reaction of a radical, are a kind of high-energy intermediate which can take part in cycloaddition, nucleophilic addition, metathesis, and cascade radical reactions.[7] Carbon-centered radicals of ethers and alcohols could be obtained easily under oxidative reaction conditions owing to the relatively lower bond dissociation energy and would be further converted into radical cations via single-electron-transfer (SET) process [8–14] in this section, we have broadly surveyed the literature relative to the formation of C–C bonds via the SET process in recent years (only 2010 to the present).'

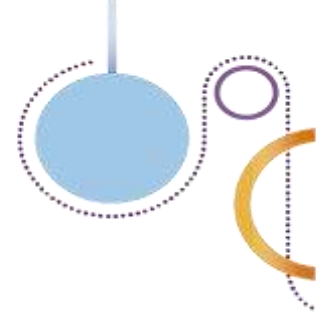
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In 2011, Tu published an excellent review about α -C(sp^3)-H activation and functionalization of ethers and alcohols in which mainly transition metal-catalyzed C–C bond formation was highlighted.^[4] But in the past five years, much remarkable progress in oxidative radical coupling relative to ethers or alcohols was disclosed. Especially, α -functionalized ether derivatives abundantly exist in numerous biologically active molecules, medicines and natural products (selected examples are shown in Figure 1).^[5] This review mainly highlights the recent advances in direct α -C(sp^3)-H functionalization of ethers and alcohols involving oxidative radical coupling and SET process. The existing procedures and methodologies have been summarized and discussed according to the C–C, C–N, C–O, and C–S bonds formed. This article is structured according to the oxidative coupling partner.

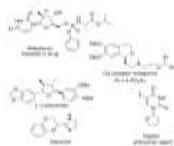


Figure 1. Selected biologically active ether compounds.

2 Direct C–C Bond and C–X (X=O, N, S) Bond Formation *via* Radical Oxidative Coupling

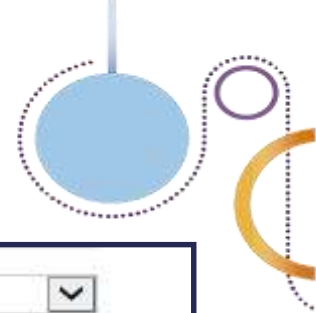
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The oxidative cross-coupling reaction has now become the most useful tool to construct C–C bonds and has attracted much attention owing to little or no requirement for substrate prefunctionalization.^[1,2,6] In this section, we mainly discussed the formation of C–C bond between ethers and other nucleophilic reagents under different oxidative conditions.

2.1 Direct C–C Bond Formation *via* Radical Cation Process

Radical cations, usually generated from a single electron oxidation reaction of a radical, are a kind of high-energy intermediate which can take part in cycloaddition, nucleophilic addition, metathesis, and cascade radical reactions.^[7] Carbon-centered radicals of ethers and alcohols could be obtained easily under oxidative reaction conditions owing to the relatively lower bond dissociation energy and would be further converted into radical cations *via* single-electron-transfer (SET) process.^[8–14] In this section, we have broadly surveyed the literature relative to the formation of C–C bonds *via* the SET process in recent years (early 2010 to the present).

Li and co-workers have made a particularly important contribution to the application of radical cations.^[8] They reported the first example of a 2,3-dichloro-5,6-dicyano-1,4-benzoquinone (DDQ)-mediated direct CDC reaction between isochroman with simple ketones. In this DDQ-mediated CDC reaction, the less active nucleophiles and simple ketones, even worked very well. A radical cation pathway was proposed (Scheme 1), and the authors used the SET concept to describe the reaction mechanism and how the cationic species was formed by the alkyl radical. Firstly, an electron transfers from benzyl ether to DDQ, generating a radical cation and DDQ radical anion. Then, a hydrogen atom from the radical cation was abstracted by the radical oxygen of the DDQ radical anion giving a benzyloxy cation. The resulting DDQ-H anion subsequently abstracted an α -hydrogen of the ketone to form an enolate and a neutral DDQ-H₂ species. Finally, nucleophilic attack of the enolate on the benzyloxy cation affords the corresponding CDC product.



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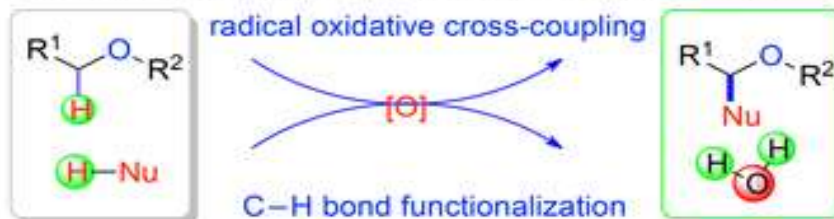
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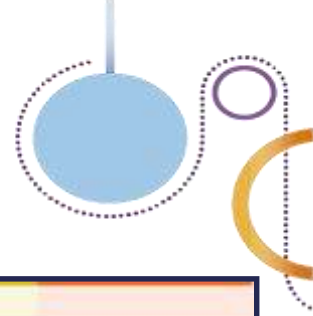
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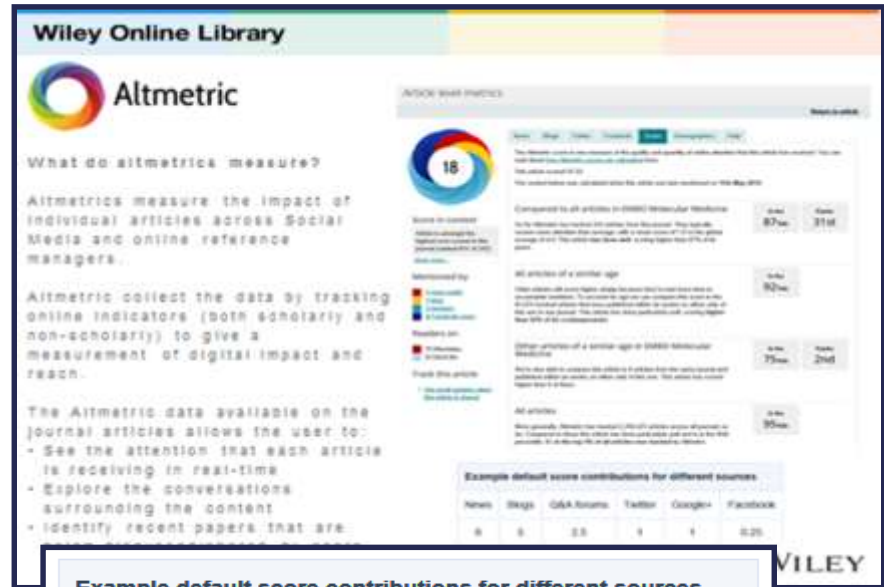
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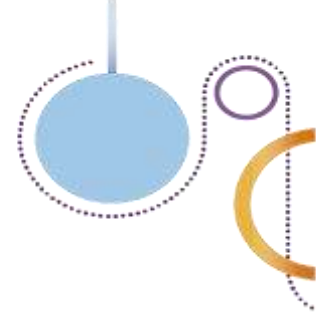
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Recent Advances of Oxidative Radical Cross-Coupling Reactions: Direct α -C(sp^3)-H Bond Functionalization of Ethers and Alcohols

Sheng-rong Guo,^{a,*} Pailla Santhosh Kumar,^a and Minghua Yang^{a,*}

E-mail: guosr0609@tsu.edu.cn or mhyang@tsu.edu.cn

Received: April 30, 2016; Revised: July 9, 2016; Published online: September 21, 2016

Abstract: Oxygen-containing heterocycles are an important class of compounds with diverse biological activities. In recent years, direct α -C-H functionalization of inexpensive and abundant readily available ethers and alcohols by oxidative radical cross-coupling with different nucleophilic partners (C-H, N-H, O-H and S-S), leading to the construction of C-C and C-X (X=C, N, O, S) bonds, has emerged as one of the vital strategies among oxidative cross-coupling reactions. **Owing to the features of being atom-economic, environmentally benign, having a simple operation and biological properties, a series of ether α -C(sp^3)-H bond activation reactions have been developed by metal or metal-free systems via the radical oxidative coupling pathway, since the radical oxidative coupling reactions have wide range of**

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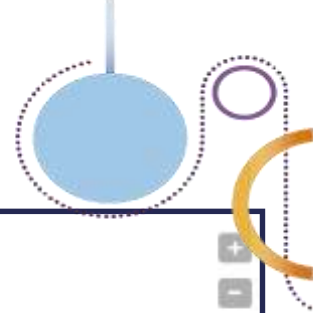


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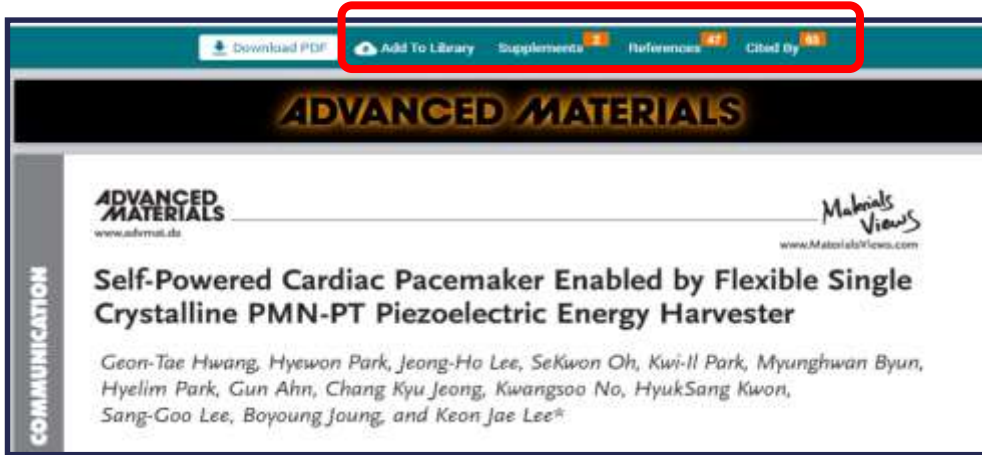
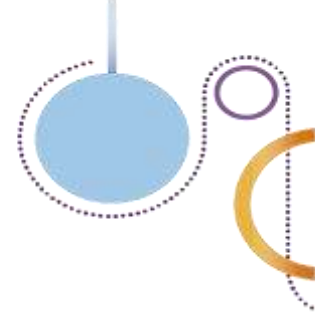
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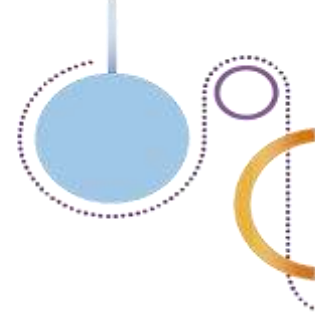


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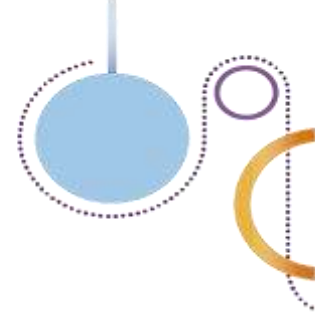


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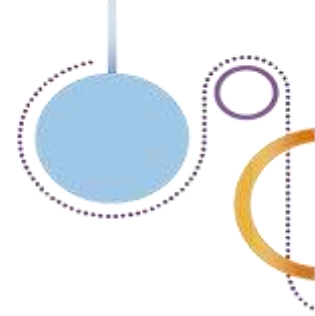
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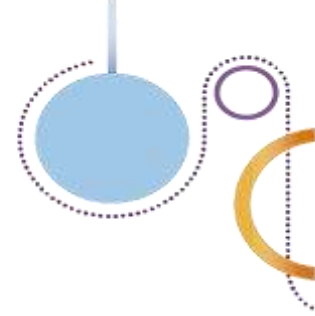
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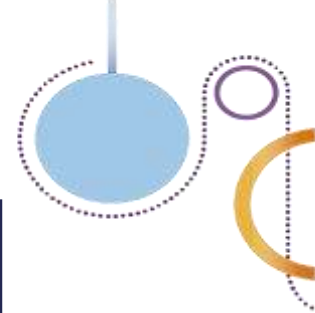
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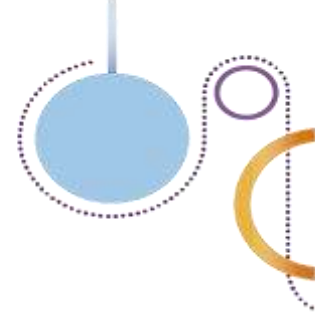
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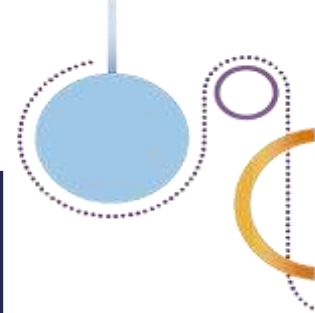
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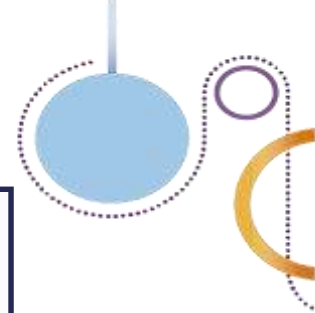
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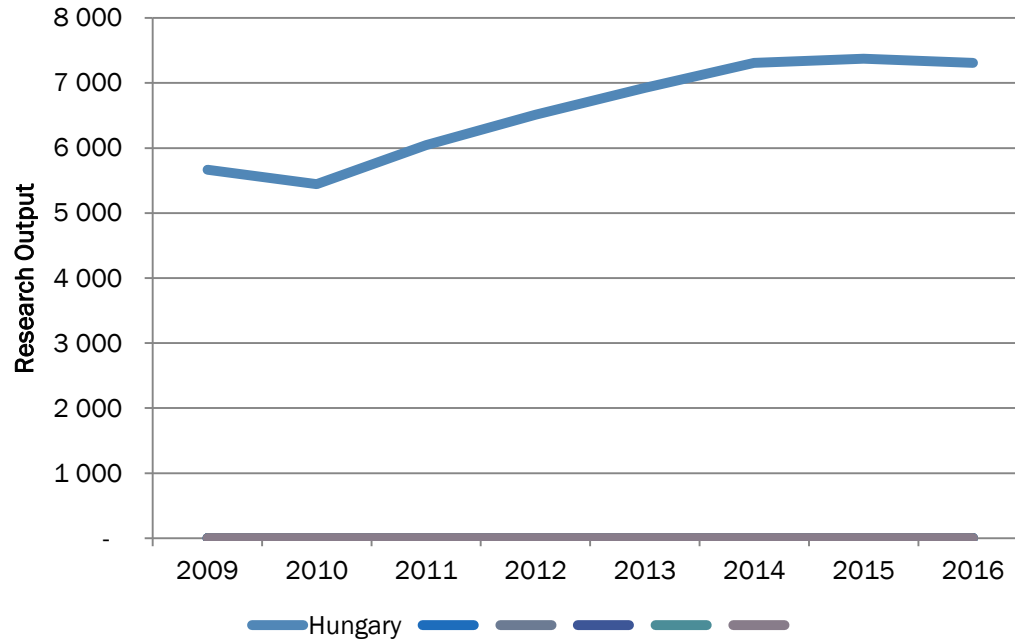
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Magyarország Kutatási eredmények és statisztikák

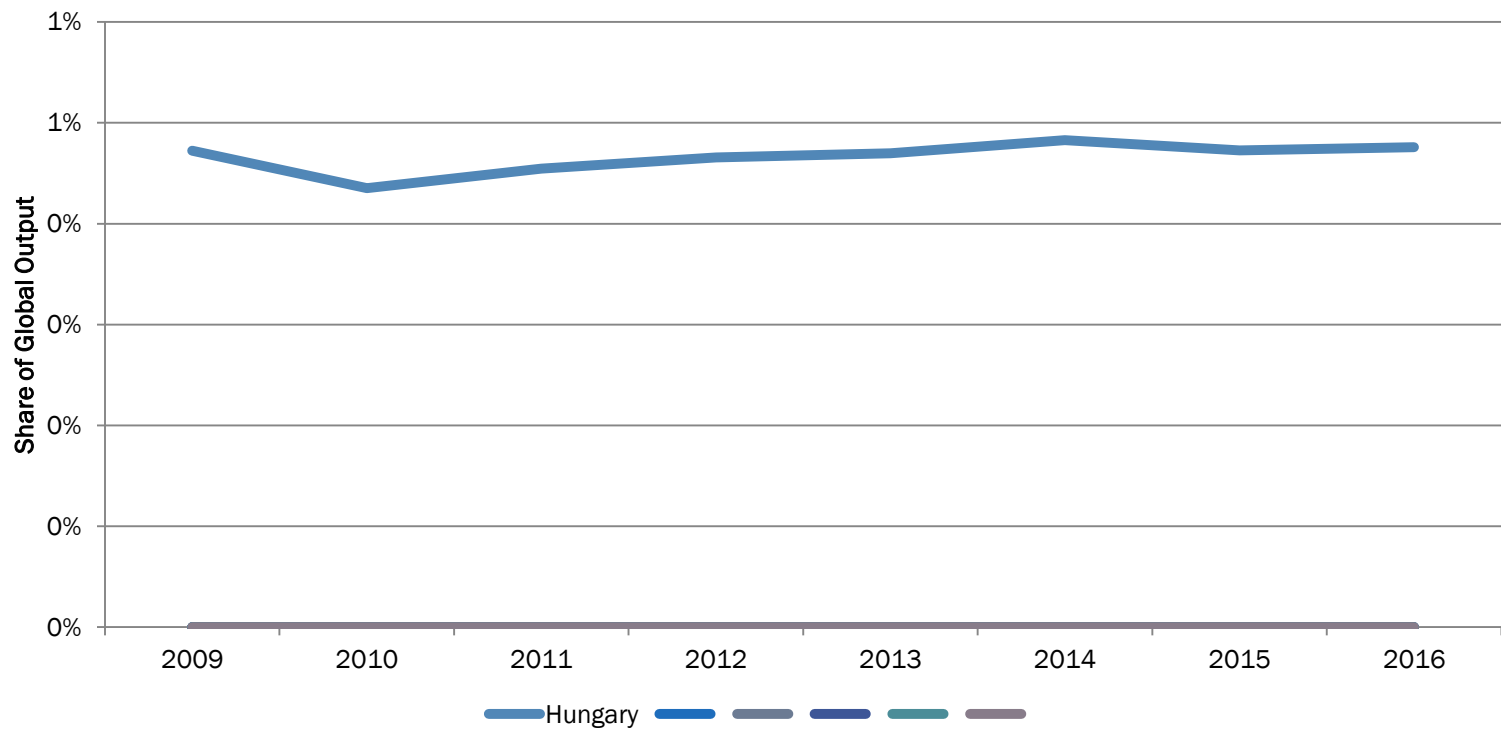


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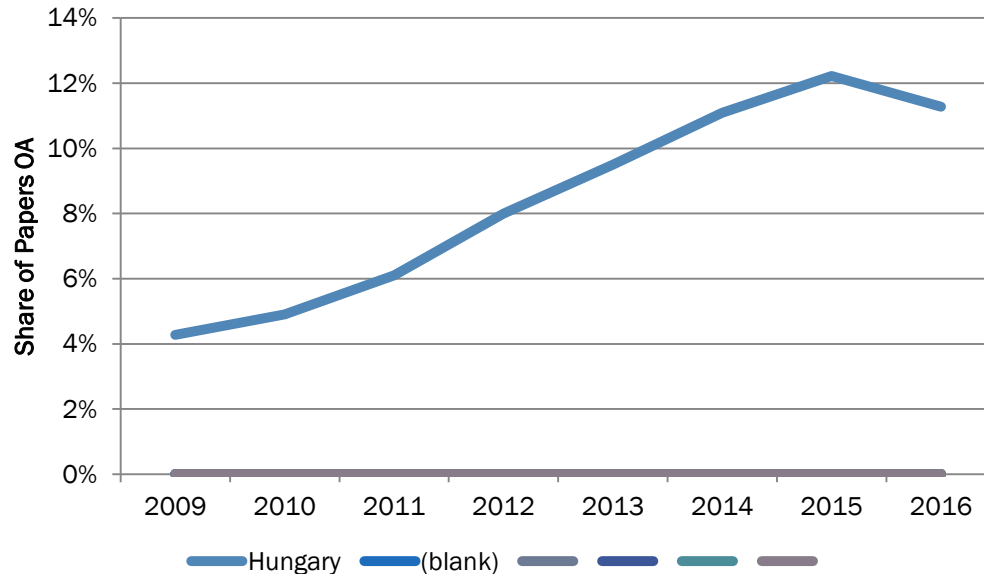


Country	Growth Rate (CAGR)
Hungary	4.5%
World Totals	4.5%

Magyarország világviszonylatban

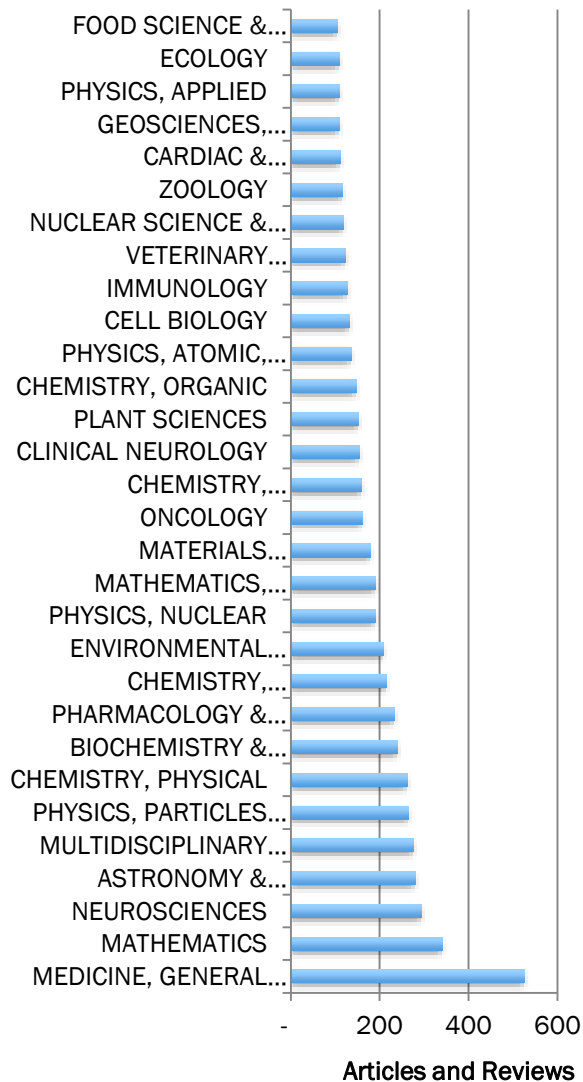


Open Access Publishing Trends

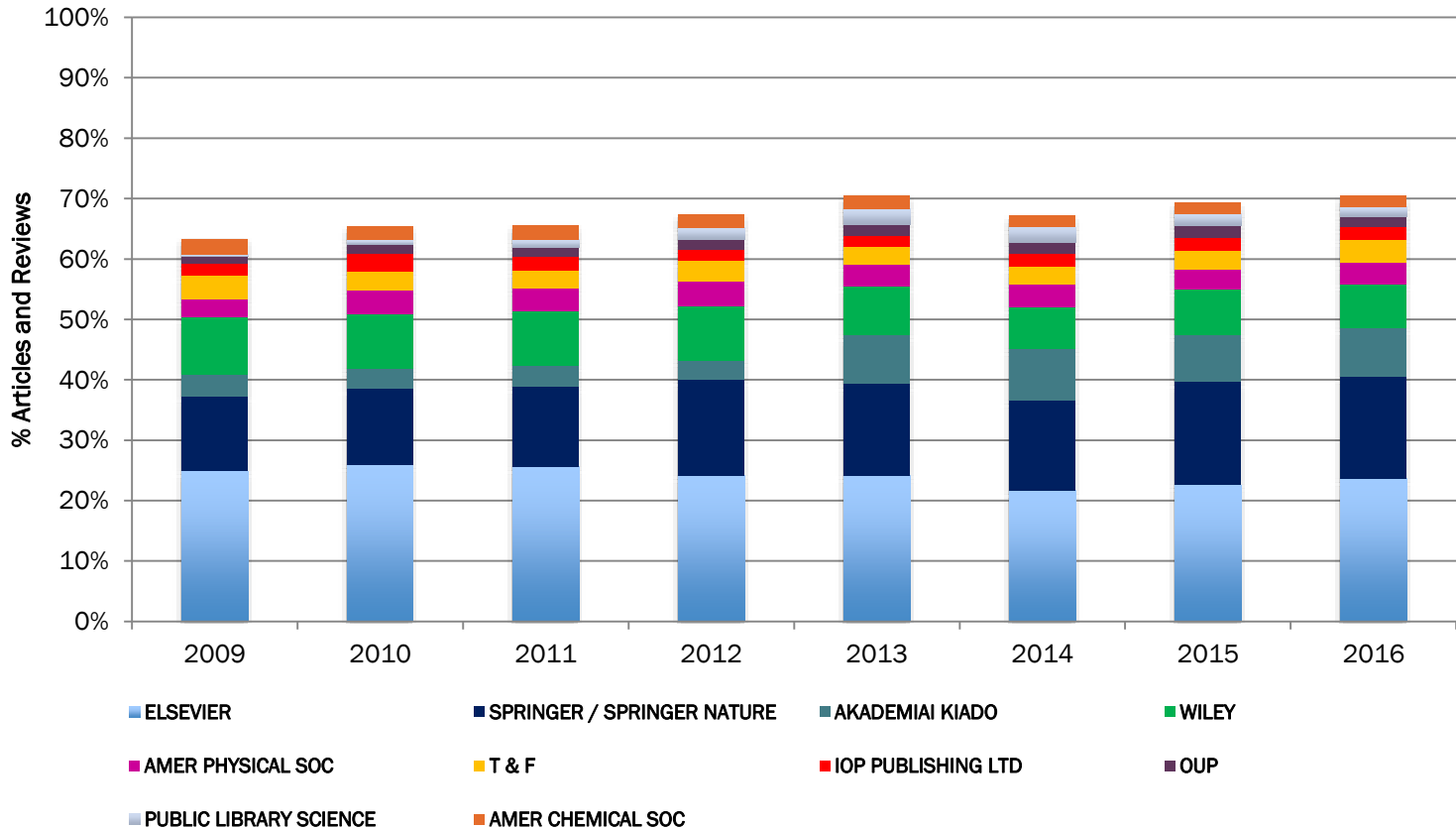


Csak a teljesen OA hozzáférésű folyóiratokat mutatja az ábra, amelyek a Directory of Open Access Journals és a Web of Science-ben is szerepelnek. Hibrid OA folyóiratok ebben az ábrában nem szerepelnek.

Publikációk témakörök szerint



Kiadók és publikációk



Publishing Across Other Publishers

Publisher	2009	2010	2011	2012	2013	2014	2015	2016	Publisher	2015 Papers	Cites to 2015 Papers	Avg Cites Per Paper
ELSEVIER	25%	26%	26%	24%	24%	22%	23%	24%	ELSEVIER	1,664	6,720	4.04
SPRINGER / SPRINGER NATURE									SPRINGER / SPRINGER NATURE	1,268	4,734	3.73
SPRINGER / SPRINGER NATURE	12%	13%	13%	16%	15%	15%	17%	17%	AKADEMIAI KIADO	567	172	0.30
AKADEMIAI KIADO	4%	3%	3%	3%	8%	8%	8%	8%	WILEY	549	2,133	3.89
WILEY	9%	9%	9%	9%	8%	7%	7%	7%	AMER PHYSICAL SOC	245	1,677	6.84
AMER PHYSICAL SOC	3%	4%	4%	4%	3%	4%	3%	4%	T & F	234	345	1.47
T & F	4%	3%	3%	3%	3%	3%	3%	4%	IOP PUBLISHING LTD	158	1,397	8.84
IOP PUBLISHING LTD	2%	3%	2%	2%	2%	2%	2%	2%	OUP	147	817	5.56
OUP	1%	2%	2%	2%	2%	2%	2%	2%	PUBLIC LIBRARY SCIENCE	140	331	2.36
PUBLIC LIBRARY SCIENCE	0%	1%	1%	2%	3%	3%	2%	1%	AMER CHEMICAL SOC	139	662	4.76
AMER CHEMICAL SOC	3%	2%	2%	2%	2%	2%	2%	2%				

Publikációk– Vezető 15 intézmény Magyarországon

Institute	Articles and Reviews 2009	Articles and Reviews 2010	Articles and Reviews 2011	Articles and Reviews 2012	Articles and Reviews 2013	Articles and Reviews 2014	Articles and Reviews 2015	Articles and Reviews 2016	Articles and Reviews 2017	Grand Total
Magyar Tudományos Akadémia	974	982	1,018	1,141	1,130	1,200	1,167	1,207	65	8,884
Eotvos Lorand Tudományegyetem	708	738	775	914	830	829	834	863	58	6,549
Semmelweis Egyetem	601	697	706	739	877	905	937	905	42	6,409
Szegedi Tudományegyetem	720	625	743	745	802	841	895	875	49	6,295
Debreceni Egyetem	572	559	704	789	786	852	771	879	43	5,955
Budapesti Muszaki es Gazdasagtudományi Egyetem	563	548	595	669	626	729	743	719	49	5,241
Pecsi Tudományegyetem	364	388	403	414	459	506	492	467	32	3,525
Magyar Tudományos Akadémia Wigner Fizikai Kutatóközpont	142	166	295	346	252	248	275	277	14	2,015
Magyar Tudományos Akadémia Atommagkutató Intézet	182	166	220	232	245	227	237	227	5	1,741
Pannon Egyetem	198	172	196	196	235	233	247	219	10	1,706
Szent István Egyetem	200	143	147	189	188	195	219	240	17	1,538
MTA Szegedi Biológiai Központ	147	154	171	181	190	198	156	188	10	1,395
Budapesti Corvinus Egyetem	96	116	149	153	144	183	167	142	5	1,155
Central European University	100	102	106	122	148	153	175	169	7	1,082
Hungarian Natural History Museum	70	61	88	86	74	80	90	78	4	631
Miskolci Egyetem	53	39	56	90	93	77	81	73	3	565



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Jelenlegi előfizetők

- 14 szerződött intézmény (egyetemek, kutatóintézetek és vállalatok)
- 1 ügyfél fizet elő a teljes gyűjteményre
- Egyedi feliratkozások sokasága (címekre)

A nehézségek

- Csak az előfizetett címek érhetők el
- Elkötelezettség, hogy minden cím meg legyen újítva
- Hosszabb pályázati idő és naptári év kötöttség= január 31-e után megszakadhat a hozzáférés, akkor is, ha nem telt el egy év

A konzorciumi szerződés előnyei

- Széleskörű hozzáférés Wiley címekhez:
 - Full Collection 1391 titles
 - STM Collection 816 titles
 - SSH Collection 574 titles
 - Medical & Nursing Collection 407 titles
- Nem kell címeket válogatni és címenként feliratkozni
- A szerződés ideje és feltételei megegyezéssel a pályázati időszakra szabhatók és a rendelkezésre álló pénzügyekhez igazítható (nem naptári évhez is igazodhat)
- Állami támogatás? Még kérdéses, de nem elképzelhetetlen.

Köszönöm a figyelmet!