

세계 유일의 SCIE + SSCI 저널 정보: JCR (Journal Citation Report)

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AGENDA

1. Journal Citation Reports (JCR) 소개
2. 목적에 따른 JCR의 활용 방법
3. JCR의 주요 저널 평가 지수
- Journal Impact Factor
4. JCR의 기본 활용법 (Classic JCR & New JCR)
5. 투고 저널 선정 전략 (Classic JCR)



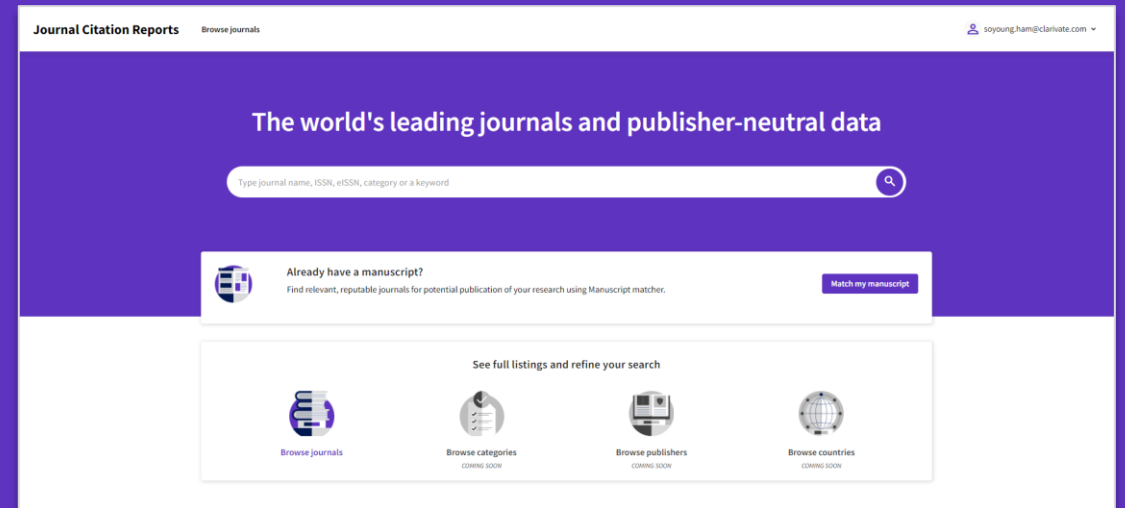
Journal Citation Reports (JCR) 소개

Journal Citation Reports(JCR)이란?

JCR은 저널의 성과를 비교/분석할 수 있는 데이터베이스로 Web of Science의 핵심 컬렉션의 인용데이터를 기반으로 하고 있음

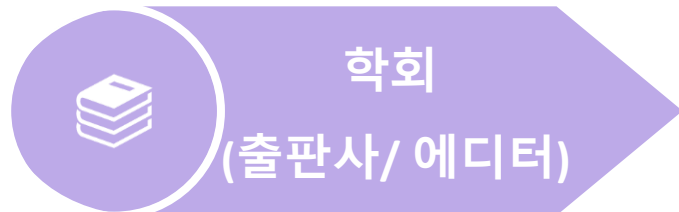
- Journal Impact Factor(JIF)를 포함한 저널의 고유의 평가지수를 활용하여 저널 분석
- 매년 새로운 버전의 JCR을 발표
- JCR에 포함된 색인
 - SCIE (Science Citation Index Expanded)
 - SSCI (Social Sciences Citation Index)
 - AHCI (Arts & Humanities Citation Index)
 - ESCI (Emerging Source Citation Index)

2021 New JCR에 추가된 색인

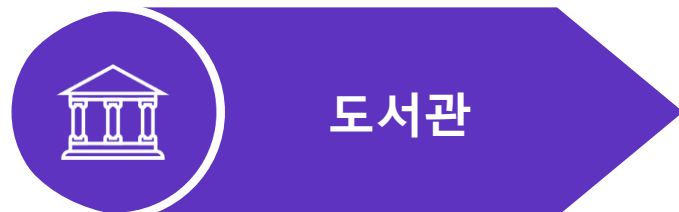


목적에 따른 JCR의 활용 방법

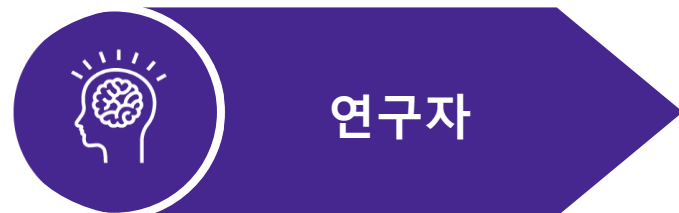
사용자 특성에 따른 InCites JCR 활용목적



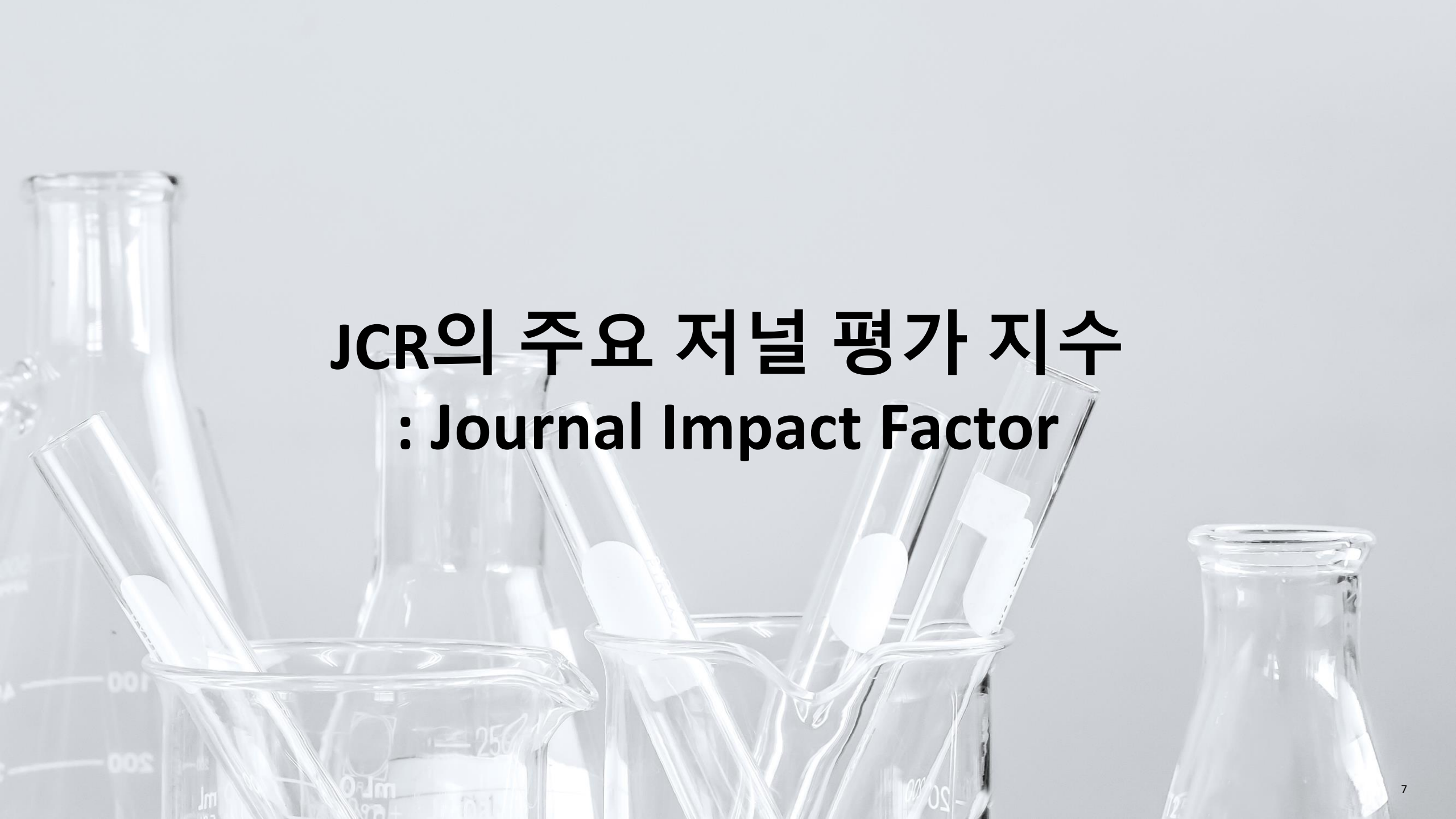
- 같은 연구분야의 저널들 간의 비교분석을 통한 학회 운영 전략수립
- 우리 학회의 저널의 논문들의 피인용 정보를 논문단위로 확인 가능
- 커스텀 저널 리스트를 활용하여 저널의 성과 트래킹 및 트렌드 분석



- 구독 저널의 상대적 비교분석
- 구독 저널 선택을 위한 가이드 데이터로 활용
- 기관의 학과 또는 연구자의 논문 성과를 저널을 기준 분석 및 관리



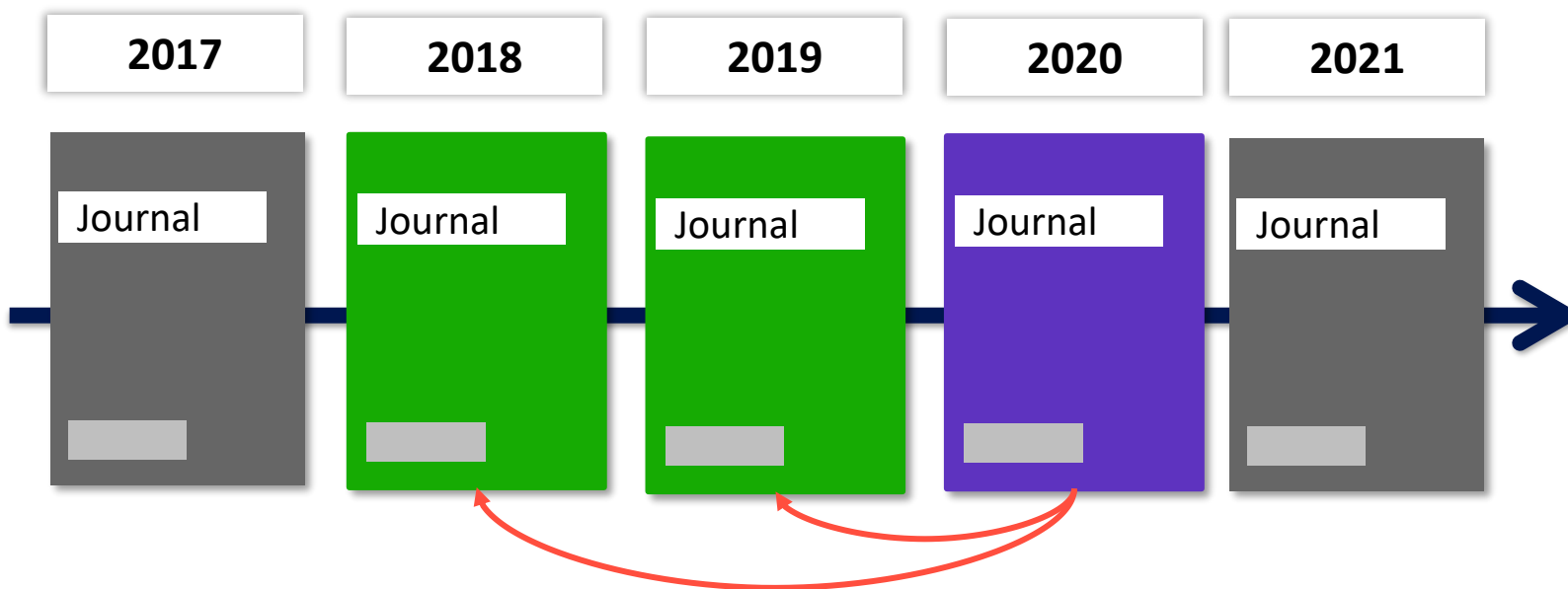
- 논문 발표를 위한 저널 선정의 전략 수립 기초자료로 활용
- 과제 성과 분석을 위한 논문 게재 저널 분석



JCR의 주요 저널 평가 지수 : Journal Impact Factor

2020 Journal Impact Factor

2018년과 2019년도에 출판된 논문이 2020년도에 인용된 평균값



Journal Impact Factor Calculation

$$\text{2020 Journal Impact Factor} = \frac{90,281}{1,807} = 49.962$$

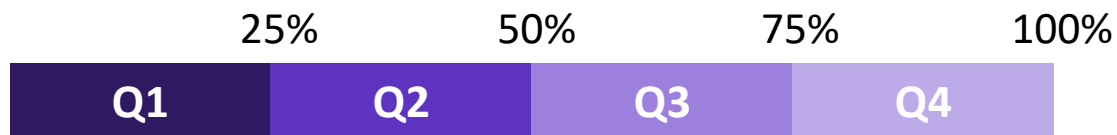
How is Journal Impact Factor Calculated?

$$\text{JIF} = \frac{\text{Citations in 2020 to items published in 2018 (49,095) + 2019 (41,186)}}{\text{Number of citable items in 2018 (904) + 2019 (903)}} = \frac{90,281}{1,807}$$

❖ SCIE (Science Citation Index Expanded)와 SSCI (Social Sciences Citation Index)에 색인된 저널에만 부여

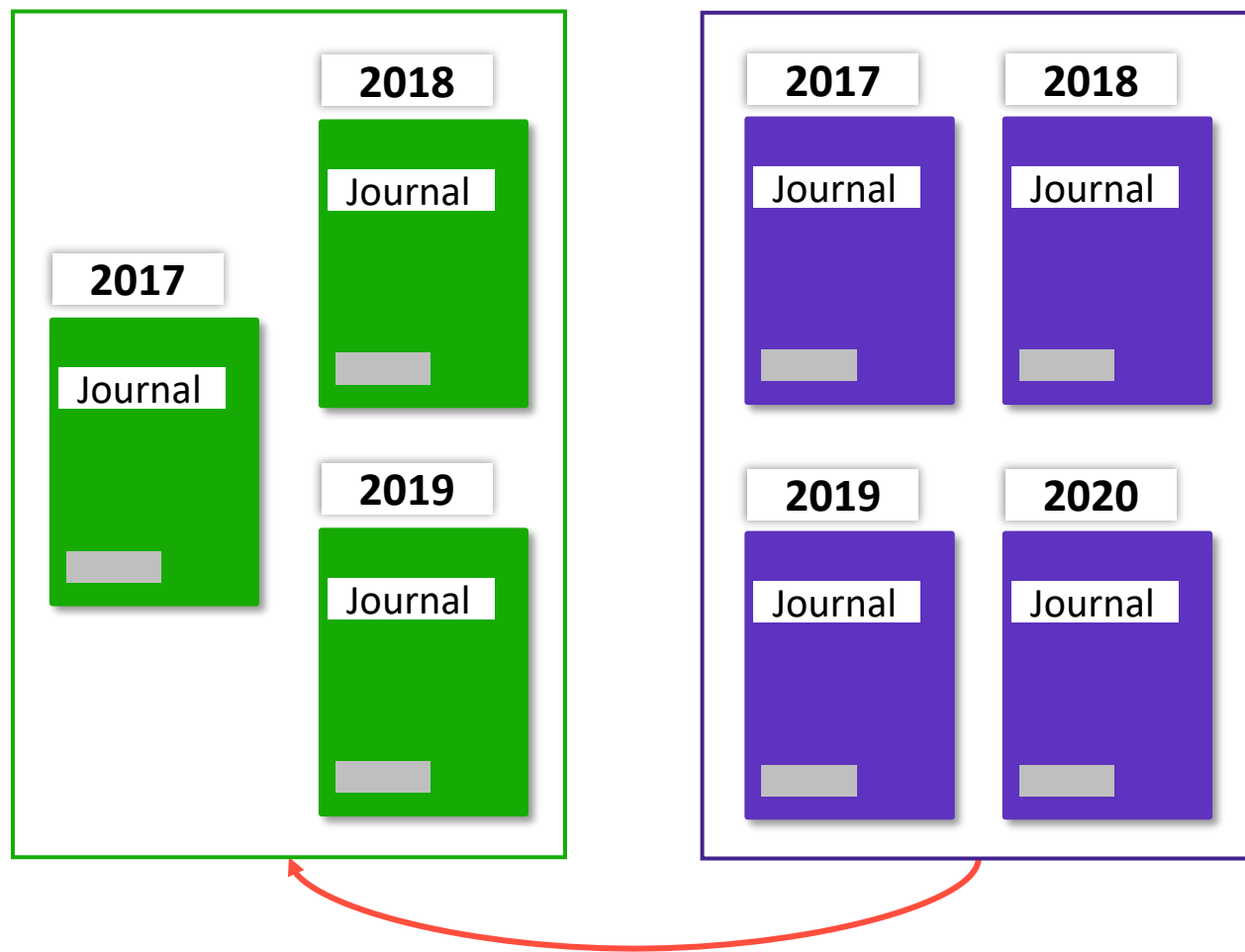
JCR의 주요 저널 평가 지표

- Eigenfactor Score: 피인용 저널의 영향력에 따라 가중치를 부여한 영향력 평가 지수
- Normalized Eigenfactor: Eigenfactor Score의 값을 Normalization한 값 (전체 평균값 1을 기준)
- Immediacy Index: 논문이 출판된 해에 인용된 평균값으로 저널이 얼마나 빠르게 인용되고 있는지를 나타내는 지수
- Quartile: **Journal Impact Factor**를 기준으로 Category별 사분위 값



- Percentile: **Journal Impact Factor**를 기준으로 Category별 백분위 값

New Indicator – Journal Citation Indicator (JCI)



- ❑ 저널의 평균 인용수 (Citation Impact)를 Category, 출판연도, 문서형태에 따라 Normalization한 지표값
- ❑ JCR의 모든 저널 색인의 저널에 부여됨
- ❑ 2개 이상의 Category에 색인된 저널의 경우 평균값으로 1개의 JCI값이 부여됨
- ❑ 2017, 2018, 2019년도에 출판된 article과 review 형태의 논문이 2017, 2018, 2019, 2020년도에 인용된 값으로 산출됨



New JCR 기본 활용법

JCR 등록하기

The screenshot shows the JCR website homepage. At the top left, it says "Journal Citation Reports" and "Browse journals". At the top right, there are "Sign In" and "Register" buttons. A green line connects the "Register" button to a callout box on the right. The callout box has the title "Email로 JCR 등록" and a bullet point stating that Clarivate's products use a single ID for login, including Web of Science, EndNote, Publons, and InCites. The main banner features the text "The world's leading journals and publisher-neutral data" and a search bar with the placeholder "Type journal name, ISSN, eISSN, category or a keyword". At the bottom, there is a section for "Already have a manuscript?" with a description and a "Match my manuscript" button.

Journal Citation Reports Browse journals

Sign In Register

The world's leading journals and publisher-neutral data

Type journal name, ISSN, eISSN, category or a keyword

Email로 JCR 등록

- Clarivate의 제품은 하나의 아이디로 로그인 가능하며, Web of Science, EndNote, Publons, InCites의 아이디로 로그인

Already have a manuscript?

Find relevant, reputable journals for potential publication of your research using Manuscript matcher.

Match my manuscript

New JCR 첫 화면

The screenshot shows the new JCR homepage with a purple header and a white search bar. The main heading is "The world's leading journals and publisher-neutral data". The search bar contains the placeholder text "Type journal name, ISSN, eISSN, category or a keyword". Below the search bar, there are four main sections: "Browse journals", "Already have a manuscript?", "See full listings and refine your search", and "Match my manuscript". The "Match my manuscript" section is highlighted with a green box and a callout. The "Match my manuscript" callout shows a form titled "Manuscript Matcher" with fields for "Title" and "Abstract", and buttons for "Cancel" and "Find Journals".

JCR 등록/ 로그인

Sign In Register

저널 검색

- 저널명, ISSN, Category 검색

Browse journals

- Journal Impact Factor를 포함한 평가지표 등 저널의 자세한 정보 검색

Match my manuscript

- 작성된 Manuscript의 제목과 초록을 활용하여 투고할 저널 매칭

Manuscript Matcher

Manuscript Matcher helps you find the most related journals for your manuscript. It works best when your title has at least 10 words and your abstract has at least 100 words. Using this information, it will pull the most relevant keywords for matching.

Please enter your manuscript information below.

Title

The manuscript title or relevant part(s) of the title. This works best with at least 10 words.

Abstract

The manuscript abstract or relevant part(s) of the abstract. This works best with at least 100 words.

Cancel Find Journals

Browse journals

로그인 정보

soyoung.ham@clarivate.com

저널 검색

20,932 journals

Type journal name, ISSN, eISSN, category or a keyword

결과내 검색

Find in table

특성별 Indicator 설정

Indicators: Default

표 다운로드

Export

필터

Filter

Indicator 설정

Customize

Journal name	ISSN	eISSN	Category	Total Citations	2020 JIF	JIF Quartile	2020 JCI	% of OA Gold
CA-A CANCER JOURNAL FOR CLINICIANS	0007-9235	1542-4863	ONCOLOGY - SCIE	55,868	508.702	Q1	77.64	8.75 %
NATURE REVIEWS MOLECULAR CELL BIOLOGY	1471-0072	1471-0080	CELL BIOLOGY - SCIE	58,477	94.444	Q1	7.01	1.40 %
NEW ENGLAND JOURNAL OF MEDICINE	0028-4793	1533-4406	MEDICINE, GENERAL & INTERNAL - SCIE			Q1	26.14	0.00 %
NATURE REVIEWS DRUG DISCOVERY	1474-1776	1474-1784	Multiple			Q1	10.86	0.00 %
LANCET	0140-6736	1474-547X	MEDICINE, GENERAL & INTERNAL - SCIE			Q1	20.05	22.81 %
Nature Reviews Clinical Oncology	1759-4774	1759-4782	ONCOLOGY - SCIE	17,973	66.675	Q1	7.72	4.38 %

저널의 평가지표 표

Multiple ^

PHARMACOLOGY & PHARMACY - SCIE

BIOTECHNOLOGY & APPLIED MICROBIOLOGY - SCIE

?

Browse journals – Filter

The diagram illustrates the 'Filter' interface for browsing journals in Web of Science. The main filter panel on the left includes sections for Journals (26,674), Categories (257), Publishers (8,110), Country / region (118), Citation Indexes, JCR Year, Open Access, JIF Quartile, JIF Range, and JCI Range. Callouts provide detailed information about these sections:

- Filter**: Points to the main filter panel.
- Web of Science Category 검색/ 선택**: Points to the 'Categories (Web of Science)' panel, which includes a search bar and a list of categories such as Acoustics, Architecture, Area Studies, Art, Asian Studies, Astronomy & Astrophysics, Audiology & Speech-language Pathology, Automation & Control Systems, Behavioral Sciences, Biochemical Research Methods, Biochemistry & Molecular Biology, Biodiversity Conservation, and Biology.
- Index 선택**: Points to the 'Citation Index' panel, which explains that users can filter on specific editions of the Web of Science Core Collection. By default, all are selected. The selected indices are: Science Citation Index Expanded (SCIE), Social Science Citation Index (SSCI), Arts & Humanities Citation Index (AHCI), and Emerging Sources Citation Index (ESCI).
- 필터 리셋**: Points to the 'Reset' button at the bottom of the filter panel.
- 필터 적용**: Points to the 'Apply' button at the bottom of the filter panel.
- JIF Range**: Points to the 'JIF Range' panel, which explains that users can find journals that fall within a selected Journal Impact Factor range by selecting a minimum and maximum value. The range is currently set from 0.0 to 100.0.

Browse journals – Indicator 설정

The screenshot shows the 'Indicator 설정' (Indicator Settings) interface. At the top, there is a dropdown menu labeled 'Indicators: Default' and a 'Customize' button. A green box labeled 'Indicator 설정' points to the 'Customize' button and contains the text '필요한 Indicator 선택' (Select required indicators). Below the dropdown, a green box labeled 'Table에 표시되는 Indicators 설정' (Set indicators to be displayed in the table) points to the dropdown menu and contains a list of indicator categories: Default, Impact, Normalized, Source, and Custom (이용자 설정). A red box labeled 'Customize 설정 후 생성' (Generate after setting customize) points to the 'Custom' option in the dropdown. The main area of the interface is divided into three columns: 'Impact metrics', 'Normalized metrics', and 'Source metrics'. Each column has a list of indicators with checkboxes. A green box labeled 'Custom Indicators 설정' (Set custom indicators) points to the 'Name your indicators' text input field. A green box labeled 'Indicator 설정 적용' (Apply indicator settings) points to the 'Apply' button. The 'Impact metrics' column includes 'Total Citations', '2020 JIF', '5 Year JIF', 'JIF Without Self Cites', 'Immediacy Index', and 'JIF Quartile'. The 'Normalized metrics' column includes '2020 JCI', 'Eigenfactor', 'Normalized Eigenfactor', 'Article Influence Score', and 'Average JIF Percentile'. The 'Source metrics' column includes 'Citable Items', '% of Articles in Citable items', 'Cited Half-Life', 'Citing Half-Life', 'Total Articles', and '% of OA Gold'. The 'Customize' button is located at the top right of the interface.

Indicators: Default **Customize**

Indicator 설정

- 필요한 Indicator 선택

Table에 표시되는 Indicators 설정

- Default: Total Citations/ 2020 JIF/ JIF Quartile/ 2020 JCI/ % of OA Gold
- Impact
- Normalized
- Source
- Custom (이용자 설정)

Default
Impact
Normalized
Source
Custom

Customize 설정 후 생성

Impact metrics
Metrics focused on the citation impact of the journals.

- ☒ Total Citations
- ☒ 2020 JIF
- ☐ 5 Year JIF
- ☐ JIF Without Self Cites
- ☐ Immediacy Index
- ☒ JIF Quartile

Normalized metrics
Metrics that have been adjusted mathematically to a particular context.

- ☒ 2020 JCI
- ☐ Eigenfactor
- ☐ Normalized Eigenfactor
- ☐ Article Influence Score
- ☐ Average JIF Percentile

Source metrics
Metrics based on the content of the journals.

- ☐ Citable Items
- ☐ % of Articles in Citable items
- ☐ Cited Half-Life
- ☐ Citing Half-Life
- ☐ Total Articles
- ☒ % of OA Gold

Custom Indicators 설정

Name your indicators

Indicator 설정 적용

Save

투고 저널 선정 전략

JIF를 활용한 저널 투고 전략

투고 저널 선정 전략 1

특정 카테고리에서 선정된 JIF의
범위 내에서의 저널을 비교
분석하여 투고할 저널을
선정하는데 기초 자료로 활용

1

Search categories (Web of Science)

materials

- ☐ Materials Science, Biomaterials
- ☐ Materials Science, Ceramics
- ☐ Materials Science, Characterization & Testing
- ☐ Materials Science, Coatings & Films
- ☐ Materials Science, Composites
- ☒ Materials Science, Multidisciplinary
- ☐ Materials Science, Paper & Wood
- ☐ Materials Science, Textiles

2

JIF Range

Find journals that fall within a selected Journal Impact Factor range. Select a minimum and maximum value for the range.

From

7

To

8

3

Journal name ▾	ISSN	eISSN	Category	Total Citations ▾	2020 JIF ▾
MATERIALS & DESIGN	0264-1275	1873-4197	MATERIALS SCIENCE, MULTIDISCIPLINARY - SCIE	71,936	7.991
PROGRESS IN PHOTOVOLTAICS	1062-7995	1099-159X	MATERIALS SCIENCE, MULTIDISCIPLINARY - SCIE	8,252	7.953
Advanced Materials Technologies	2365-709X	2365-709X	MATERIALS SCIENCE, MULTIDISCIPLINARY - SCIE	7,102	7.848

Indicators를 활용한 저널 투고 전략

Indicator	의미
Immediacy Index	논문이 출판된 해에 인용된 article 평균값
Eigenfactor Score	피인용 저널의 영향력에 따라 가중치를 부여한 영향력 평가 지수
Normalized Eigenfactor Score	Eigenfactor Score의 평균값을 1로 했을 때 상대적인 값을 나타냄

예시: *Physics, Condensed Matter* 분야의 저널

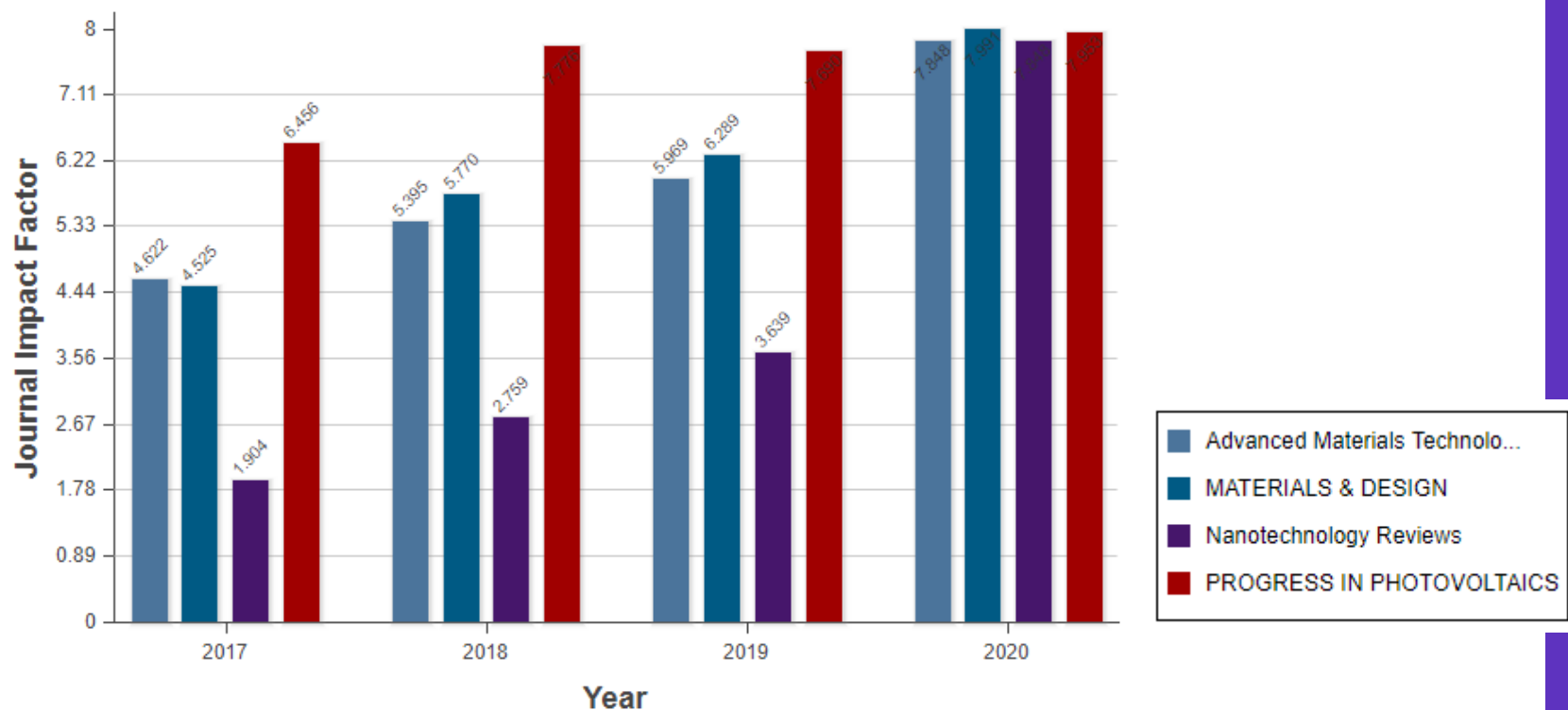
Journal name ▼	2020 JIF ▼	Normalized Eigenfactor ▼	Immediacy Index ▼
Small	13.281	22.12457	2.467
Laser & Photonics Reviews	13.138	2.71789	1.969
SURFACE SCIENCE REPORTS	12.267	0.47332	1.333
CURRENT OPINION IN SOLID STATE & MATERIALS SCIENCE	11.354	0.82385	1.655
NANO LETTERS	11.189	43.18307	2.565

투고 저널 선정 전략 2

비슷한 JIF를 가진 저널을 JCR에서 제공하는 고유의 indicators를 함께 비교/ 분석하여 투고할 저널 선정하는데 기초 자료로 활용

Indicator의 트렌드를 분석한 저널 투고 전략

Materials Science, Multidisciplinary 분야에서 JIF 7~8의 저널



투고 저널 선정 전략 3

선정된 저널의 JIF 또는 JCR에서 제공하는 고유 Indicators의 최근 동향을 분석하여 투고 저널 선정을 위한 기초 자료로 활용

(Classic JCR에서 활용)

The background of the slide is a grayscale photograph of various laboratory glassware. It includes several Erlenmeyer flasks, some containing liquid, and several test tubes held in a rack. The glassware is arranged in a way that creates a sense of depth, with some items in the foreground and others in the background. The lighting is soft, highlighting the reflective surfaces of the glass.

DEMO

감사합니다.



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Classic JCR 기본 활용법

JCR 등록하기

도서관 홈페이지

→ 데이터베이스

→ JCR

Web of Science InCites Journal Citation Reports Essential Science Indicators EndNote Publons

Sign In Help English

InCites Journal Citation Reports

Welcome to Journal Citation Reports

Search a journal title or select an option to get started

Enter a journal name

Master Search

Browse by Journal Browse by Category Custom Reports

Clarivate Accelerating innovation

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Follow us

1 Sign In

2 Register

3 User Registration

Please register the same email address used for Web of Science.

Email Address

Retype Email Address

Continue Cancel

JCR: 저널검색하기(기본화면)

The screenshot shows the JCR homepage with several annotations in purple boxes and red outlines:

- Clarivate의 다른 제품으로 연결** (Link to other Clarivate products) points to the navigation bar containing: Web of Science, InCites, Journal Citation Reports, Essential Science Indicators, EndNote, and Publons.
- 로그인정보/ 도움말/ 언어선택** (Login info/ Help/ Language selection) points to the top right corner showing: soyoung.ham@clarivate.com, Help, and English.
- 저널명을 통한 분석** (Analysis by journal name) points to the search bar labeled "Master Search: 저널명 검색" (Master Search: Journal name search).
- 연구분야를 통한 분석** (Analysis by research field) points to the "Browse by Category" option.

The main content area includes the heading "Welcome to Journal Citation Reports" and the instruction "Search a journal title or select an option to get started". Below the search bar are three options: "Browse by Journal", "Browse by Category", and "Custom Reports".

The footer contains the Clarivate logo with the tagline "Accelerating innovation", copyright information "© 2018 Clarivate", and links for "Copyright notice", "Terms of use", "Privacy statement", and "Cookie policy". It also includes social media links for Twitter and Facebook under the text "Follow us".

Browse by Journal

Go to Journal Profile

Master Search

Compare Journals

View Title Changes

Select Journals

Select Categories

Select JCR Year

2019

Select Edition

☒ SCIE ☒ SSCI

Open Access

☐ Open Access

Category Schema

Web of Science

JIF Quartile

Select Publisher

Select Country/Region

Impact Factor Range

to

Average JIF Percentile Range

to

Clear

Submit

Journals By Rank

Categories By Rank

Journal Titles Ranked by Impact Factor

Compare Selected Journals

Add Journals to New or Existing List

Customize Indicators

	Full Journal Title	Total Cites	Journal Impact Factor	Eigenfactor Score	Average JIF Percentile
1	CA-A CANCER JOURNAL FOR CLINICIANS	39,917	292.278	0.09358	99.795
2	NEW ENGLAND JOURNAL OF MEDICINE	347,450	74.699	0.66180	99.697
3	Nature Reviews Materials	12,657	71.189	0.05288	99.678
4	NATURE REVIEWS DRUG DISCOVERY	33,156	64.797	0.04921	99.747
5	LANCET	256,200	60.390	0.43787	99.091
6	NATURE REVIEWS MOLECULAR CELL BIOLOGY	46,309	55.470	0.08233	99.744

Browse by Journal 에서 제공하는 필터

분석된 저널 목록

- Browse by Journal은 저널 목록으로 분석한 결과를 확인할 수 있음
- 필터를 적용하지 않았을 경우 JCR에 있는 모든 저널을 확인할 수 있음
- 적용된 필터에 따라 분석된 저널 목록에 나타나는 저널의 목록이 변경됨

Browse by Category

Go to Journal Profile

Master Search

Select Journals

Select Categories

Select JCR Year

2019

Select Edition

☒ SCIE ☒ SSCI

Clear Submit

Journals By Rank Categories By Rank

All Journal Categories ranked by Number of Journals

Customize Indicators

	Category	Edition	#Journals	Total Cites	Median Impact Factor	Aggregate Impact Factor
1	ECONOMICS	SSCI	373	1,116,324	1.411	2.219
2	MATHEMATICS	SCIE	325	565,491	0.794	0.993
3	MATERIALS SCIENCE, MULTIDISCIPLINARY	SCIE	314	5,001,499	2.528	5.274
4	BIOCHEMISTRY & MOLECULAR BIOLOGY	SCIE	297	3,962,918	3.167	4.696
5	NEUROSCIENCES	SCIE	272	2,548,868	3.052	4.041
6	PHARMACOLOGY & PHARMACY	SCIE	271	1,769,982	2.681	3.442
7	ENGINEERING, ELECTRICAL & ELECTRONIC	SCIE	266	2,097,197	2.204	3.361
8	ENVIRONMENTAL SCIENCES	SCIE	265	2,622,685	2.400	4.313
9	EDUCATION & EDUCATIONAL RESEARCH	SSCI	263	421,337	1.585	1.804
10	MATHEMATICS, APPLIED	SCIE	261	631,053	1.162	1.568
11	ONCOLOGY	SCIE	244	2,187,273	3.297	4.840
12	PLANT SCIENCES	SCIE	234	1,292,836	1.576	3.005

Browse by Category
에서 제공하는 필터

분석된 저널 목록

- Browse by Category는 Web of Science Category의 정보를 확인할 수 있음
- 각 Category에 색인된 저널의 정보를 확인할 수 있음
- 적용된 필터에 따라 분석된 저널의 목록이 달라지며, 필터를 적용하지 않았을 경우 JCR에 적용된 Web of Science Category 별 분석 값을 확인할 수 있음.

JCR에서 제공하는 저널 평가 지수 설정하기

Go to Journal Profile
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Select Journals
Select Categories

Select JCR Year
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Category Schema
Web of Science

JIF Quartile

Journals By Rank Categories By Rank

Journal Titles Ranked by Impact Factor

1 Customize Indicators

	Full Journal Title	Total Cites	Journal Impact Factor	Eigenfactor Score	Average JIF Percentile
1	CA-A CANCER JOURNAL FOR CLINICIANS	39,917	292.278	0.09358	99.795
2	NEW ENG OF MEDIC				
3	Nature Re				
4	NATURE F DISCOVER				
5	LANCET				
6	NATURE F MOLECUL				

2 분석하고자 하는 Indicator 선택

Customize Indicators

- ☐ JCR Abbreviated Title
- ☒ Total Cites
- ☒ Journal Impact Factor
- ☐ Impact Factor without Journal Self Cites
- ☐ 5 Year Impact Factor
- ☐ Immediacy Index
- ☐ Citable Items
- ☐ Normalized Eigenfactor
- ☐ Cited Half-Life
- ☐ Citing Half-Life
- ☒ Eigenfactor Score
- ☐ Article Influence Score
- ☐ ISSN
- ☐ % Articles in Citable Items
- ☒ Average JIF Percentile

3 Save

저널 평가 지수 설정하기

Customize Indicators

Indicators 선택

Save 클릭