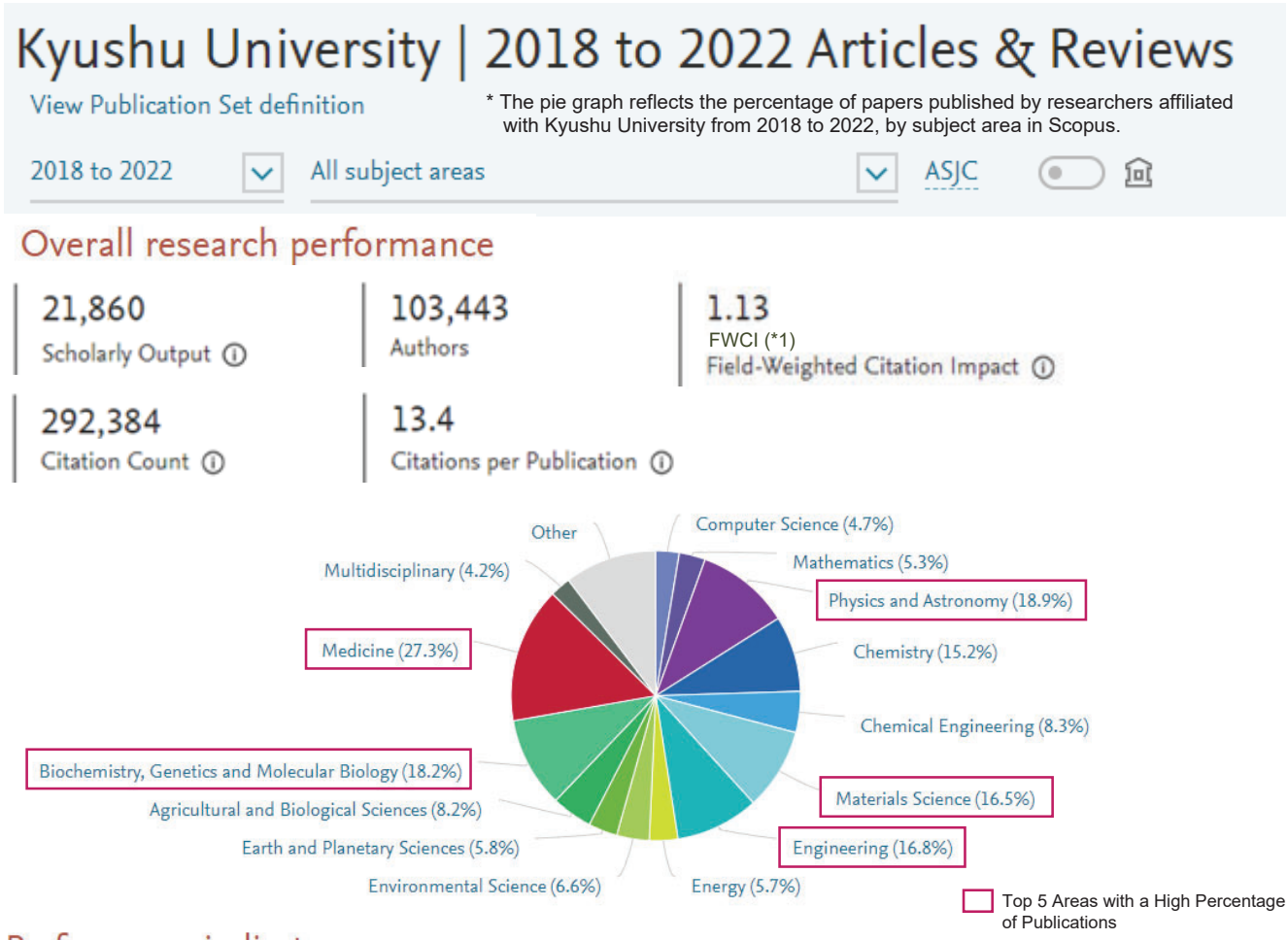
# 9. Research

## 9-1. Trends across Kyushu University as a Whole Based on Field Classification of Journals




(*1) FWCI (Field-Weighted Citation Impact) is the number of citations received by the publication, divided by the world average for the same type of publications in the same field and same publication year. An FWCI of 1 or higher means that the average impact is higher than the world average.

Metrics Details

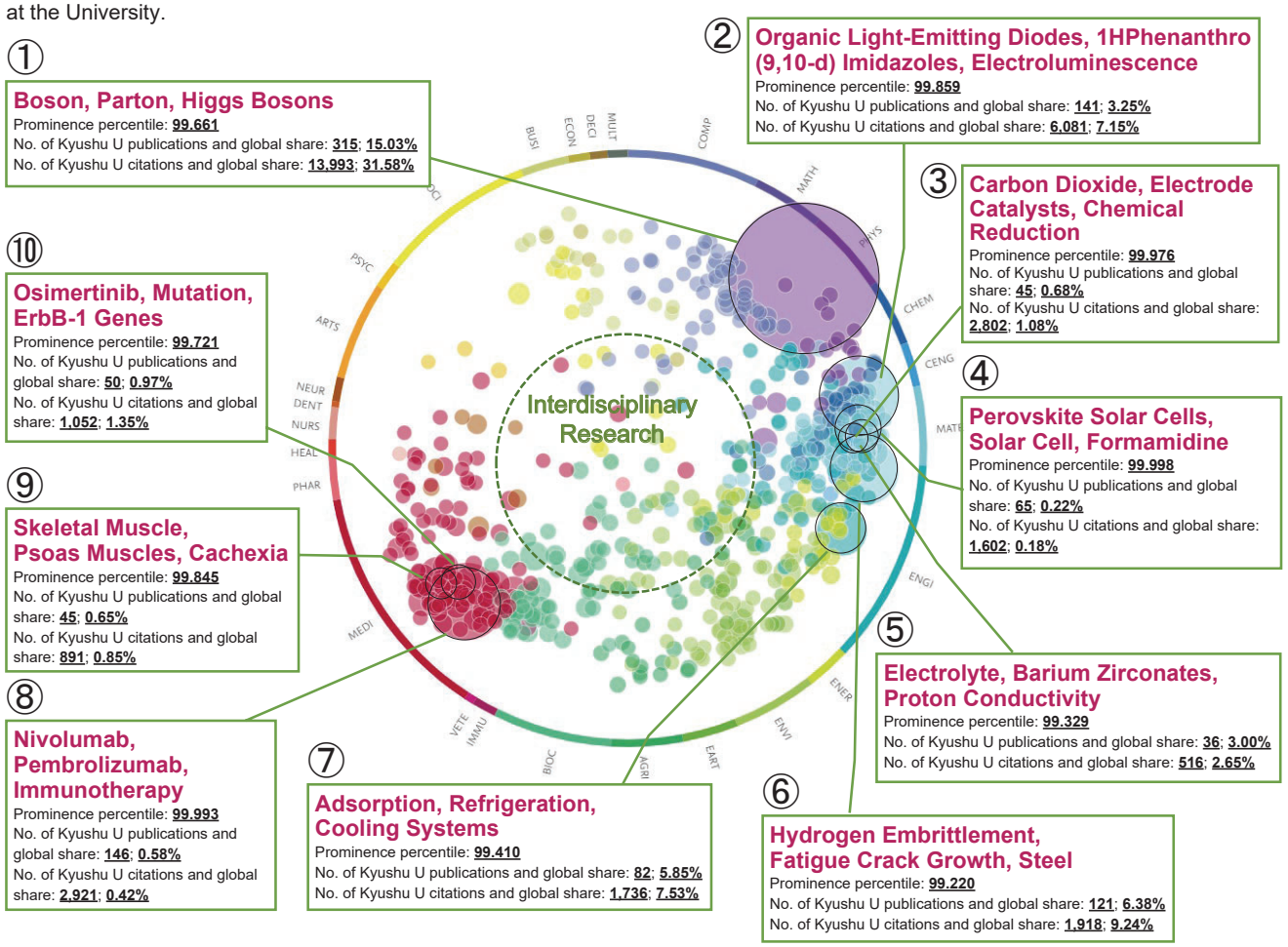
Publication Type: Articles and Reviews; Journal Metric: CiteScore Percentile; Self-Citations: included; Field-Weighted (output in top 10% citation percentiles): yes; Field-Weighted (international collaboration): no

Source: Elsevier's *"SciVal"* (as of September 2023)

## ■ Topic Prominence: Analysis of University Strengths Based on Co-citation of Publications

### The Most Prominent 1% of Topics (2018-2022)

Out of the top 1% prominent topics, 1-10 are those with the top 10 highest number of publications
Kyushu university has a high number of publications in these fields, so these can be considered some of the most active research fields at the University.




① **Boson, Parton, Higgs Bosons**
Prominence percentile: 99.661
No. of Kyushu U publications and global share: 315; 15.03%
No. of Kyushu U citations and global share: 13,993; 31.58%

② **Organic Light-Emitting Diodes, 1HPhenanthro (9,10-d) Imidazoles, Electroluminescence**
Prominence percentile: 99.859
No. of Kyushu U publications and global share: 141; 3.25%
No. of Kyushu U citations and global share: 6,081; 7.15%

③ **Carbon Dioxide, Electrode Catalysts, Chemical Reduction**
Prominence percentile: 99.976
No. of Kyushu U publications and global share: 45; 0.68%
No. of Kyushu U citations and global share: 2,802; 1.08%

④ **Perovskite Solar Cells, Solar Cell, Formamidine**
Prominence percentile: 99.998
No. of Kyushu U publications and global share: 65; 0.22%
No. of Kyushu U citations and global share: 1,602; 0.18%

⑤ **Electrolyte, Barium Zirconates, Proton Conductivity**
Prominence percentile: 99.329
No. of Kyushu U publications and global share: 36; 3.00%
No. of Kyushu U citations and global share: 516; 2.65%

⑥ **Hydrogen Embrittlement, Fatigue Crack Growth, Steel**
Prominence percentile: 99.220
No. of Kyushu U publications and global share: 121; 6.38%
No. of Kyushu U citations and global share: 1,918; 9.24%

⑦ **Adsorption, Refrigeration, Cooling Systems**
Prominence percentile: 99.410
No. of Kyushu U publications and global share: 82; 5.85%
No. of Kyushu U citations and global share: 1,736; 7.53%

⑧ **Nivolumab, Pembrolizumab, Immunotherapy**
Prominence percentile: 99.993
No. of Kyushu U publications and global share: 146; 0.58%
No. of Kyushu U citations and global share: 2,921; 0.42%

⑨ **Skeletal Muscle, Psoas Muscles, Cachexia**
Prominence percentile: 99.845
No. of Kyushu U publications and global share: 45; 0.65%
No. of Kyushu U citations and global share: 891; 0.85%

⑩ **Osimertinib, Mutation, ErbB-1 Genes**
Prominence percentile: 99.721
No. of Kyushu U publications and global share: 50; 0.97%
No. of Kyushu U citations and global share: 1,052; 1.35%

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|---|---|---|---|---|---|---|---|
| COMP | Computer Science | ENER | Energy | MEDI | Medicine | PSYC | Psychology |
| MATH | Mathematics | ENVI | Environmental Science | PHAR | Pharmacology, Toxicology and Pharmaceutics | SOCI | Social Sciences |
| PHYS | Physics and Astronomy | EART | Earth and Planetary Sciences | HEAL | Health Professions | BUSI | Business, Management and Accounting |
| CHEM | Chemistry | AGRI | Agricultural and Biological Sciences | NURS | Nursing | ECON | Economics, Econometrics and Finance |
| CENG | Chemical Engineering | BIOC | Biochemistry, Genetics and Molecular Biology | DENT | Dentistry | DECI | Decision Sciences |
| MATE | Materials Science | IMMU | Immunology and Microbiology | NEUR | Neuroscience | MULT | Multidisciplinary |
| ENGI | Engineering | VETE | Veterinary | ARTS | Arts and Humanities | | |

・An Overview of the Topic Prominence Function
The Scopus literature was clustered into approximately 96,000 topics and 1,500 topic clusters based on citation links and ranked by Prominence. Prominence indicates the current momentum and attention level of a topic by looking at the number of citations in the most recent literature, the number of Scopus views, and the CiteScore. The highest Prominence percentile is 100; Prominence is correlated with grants and helps researchers and administrators identify topics with the highest potential for increased funding.
(Excerpted from Elsevier Quick Reference Guide, May 2020)
Between 2018 and 2022, of all Kyushu University publications, 7,884 research fields emerged as high-profile topics.

◆Perspectives◆
・Circumference indicates research fields used in Scopus (ASJC 27 major subject areas) by color.
・Each circle represents a topic.
・Color of circle: For the fields of the publications that make up the topics, the fields that make the highest proportion of the total are displayed in the color of the fields located around the circumference.
・Size of circle indicates the output of the entity in the topic.
・Position of the circle is based upon the ASJC categories of the journals in which the scholarly output is published. Topics closer to the center of the wheel are more likely to be multidisciplinary.

Metrics Details
Publication Type: Articles and Reviews; Self-Citations: included

Source: Elsevier's *"SciVal"* (as of September 2023)