

# International Collaboration Programs

## “Review Section Table”

*Review Section Table differs from that of the program Grants-in-Aid for Scientific Research (KAKENHI).*

In the Table, the “Panel Review Sections” are used to conduct the panel reviews of grant applications under JSPS’s international collaboration programs. The “Document Review Sections” are used to conduct the document reviews of grant applications. Each panel review section comprises a set of document review sections. Within the parameters of each document review section are listed plural basic sections. When preparing a grant application, if your project contains content other than that specified in the document review sections, it may be included in your application.

“Document Review Sets” are provided to effectively carry out relative evaluations when doing document reviews in various international collaboration programs. Separate sets of combined document review sections and basic sections are established for each program. For reference, please see “Document Review Set” under the program that you are applying for.

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## The Review Section Table (Overview)

| Panel Review Section: Humanities  |  |
|---|--|
| Document Review Section 11 : Philosophy, art, and related fields                            |  |
| Basic Section   |  |
| 01010   | Philosophy and ethics-related  |
| 01020   | Chinese philosophy, Indian philosophy and Buddhist philosophy-related      |
| 01030   | Religious studies-related  |
| 01040   | History of thought-related   |
| 01050   | Aesthetics and art studies-related   |
| 01060   | History of arts-related  |
| 01070   | Theory of art practice-related   |
| 01080   | Sociology of science, history of science and technology-related            |
| 90010   | Design-related   |
| Document Review Section 12 : Literature, linguistics, and related fields                    |  |
| Basic Section   |  |
| 02010   | Japanese literature-related  |
| 02020   | Chinese literature-related   |
| 02030   | English literature and literature in the English language-related          |
| 02040   | European literature-related  |
| 02050   | Literature in general-related  |
| 02060   | Linguistics-related  |
| 02070   | Japanese linguistics-related   |
| 02080   | English linguistics-related  |
| 02090   | Japanese language education-related  |
| 02100   | Foreign language education-related   |
| 90020   | Library and information science, humanistic and social informatics-related |
| Document Review Section 13 : History, archaeology, museology, and related fields            |  |
| Basic Section   |  |
| 03010   | Historical studies in general-related                                      |
| 03020   | Japanese history-related   |
| 03030   | History of Asia and Africa-related   |
| 03040   | History of Europe and America-related                                      |
| 03050   | Archaeology-related  |
| 03060   | Cultural assets study-related  |
| 03070   | Museology-related  |
| Document Review Section 14 : Geography, cultural anthropology, folklore, and related fields |  |
| Basic Section   |  |
| 04010   | Geography-related  |
| 04020   | Human geography-related  |
| 04030   | Cultural anthropology and folklore-related                                 |
| 80010   | Area studies-related   |
| 80020   | Tourism studies-related  |
| 80030   | Gender studies-related   |

| Panel Review Section: Social sciences   |  |
|---|--|
| Document Review Section 21 : Law and related fields                                 |  |
| Basic Section   |  |
| 05010   | Legal theory and history-related                                     |
| 05020   | Public law-related   |
| 05030   | International law-related  |
| 05040   | Social law-related   |
| 05050   | Criminal law-related   |
| 05060   | Civil law-related  |
| 05070   | New fields of law-related  |
| Document Review Section 22 : Political science and related fields                   |  |
| Basic Section   |  |
| 06010   | Politics-related   |
| 06020   | International relations-related                                      |
| 80010   | Area studies-related   |
| 80030   | Gender studies-related   |
| Document Review Section 23 : Economics, business administration, and related fields |  |
| Basic Section   |  |
| 07010   | Economic theory-related  |
| 07020   | Economic doctrines and economic thought-related                      |
| 07030   | Economic statistics-related  |
| 07040   | Economic policy-related  |
| 07050   | Public economics and labor economics-related                         |
| 07060   | Money and finance-related  |
| 07070   | Economic history-related   |
| 07080   | Business administration-related                                      |
| 07090   | Commerce-related   |
| 07100   | Accounting-related   |
| 80020   | Tourism studies-related  |
| Document Review Section 24 : Sociology and related fields                           |  |
| Basic Section   |  |
| 08010   | Sociology-related  |
| 08020   | Social welfare-related   |
| 08030   | Family and consumer sciences, and culture and living-related         |
| 80020   | Tourism studies-related  |
| 80030   | Gender studies-related   |
| Document Review Section 25 : Education and related fields                           |  |
| Basic Section   |  |
| 09010   | Education-related  |
| 09020   | Sociology of education-related                                       |
| 09030   | Childhood and nursery/pre-school education-related                   |
| 09040   | Education on school subjects and primary/secondary education-related |
| 09050   | Tertiary education-related   |
| 09060   | Special needs education-related                                      |
| 09070   | Educational technology-related                                       |
| 09080   | Science education-related  |
| 02090   | Japanese language education-related                                  |
| 02100   | Foreign language education-related                                   |

|  |                                 |
|--|---------------------------------|
| Panel Review Section: Social sciences (continued)          |                                 |
| Document Review Section 26 : Psychology and related fields |                                 |
| Basic Section  |                                 |
| 10010  | Social psychology-related       |
| 10020  | Educational psychology-related  |
| 10030  | Clinical psychology-related     |
| 10040  | Experimental psychology-related |
| 90030  | Cognitive science-related       |

|   |   |
|---|---|
| Panel Review Section: Mathematical and physical sciences                            |   |
| Document Review Section 31 : Algebra, geometry, and related fields                  |   |
| Basic Section   |   |
| 11010   | Algebra-related   |
| 11020   | Geometry-related  |
| Document Review Section 32 : Analysis, applied mathematics, and related fields      |   |
| Basic Section   |   |
| 12010   | Basic analysis-related  |
| 12020   | Mathematical analysis-related   |
| 12030   | Basic mathematics-related   |
| 12040   | Applied mathematics and statistics-related  |
| Document Review Section 33 : Condensed matter physics and related fields            |   |
| Basic Section   |   |
| 13010   | Mathematical physics and fundamental theory of condensed matter physics-related   |
| 13020   | Semiconductors, optical properties of condensed matter and atomic physics-related |
| 13030   | Magnetism, superconductivity and strongly correlated systems-related              |
| 13040   | Biophysics, chemical physics and soft matter physics-related                      |
| Document Review Section 34 : Plasma science and related fields                      |   |
| Basic Section   |   |
| 14010   | Fundamental plasma-related  |
| 14020   | Nuclear fusion-related  |
| 14030   | Applied plasma science-related  |
| 80040   | Quantum beam science-related  |
| Document Review Section 35 : Particle-, nuclear-, astro-physics, and related fields |   |
| Basic Section   |   |
| 80040   | Quantum beam science-related  |
| 15010   | Theoretical studies related to particle-, nuclear-, cosmic ray and astro-physics  |
| 15020   | Experimental studies related to particle-, nuclear-, cosmic ray and astro-physics |
| Document Review Section 36 : Astronomy and related fields                           |   |
| Basic Section   |   |
| 16010   | Astronomy-related   |
| Document Review Section 37 : Earth and planetary science and related fields         |   |
| Basic Section   |   |
| 17010   | Space and planetary sciences-related  |
| 17020   | Atmospheric and hydrospheric sciences-related                                     |
| 17030   | Human geosciences-related   |
| 17040   | Solid earth sciences-related  |
| 17050   | Biogeosciences-related  |

| Panel Review Section: Chemistry  |   |
|--|---|
| Document Review Section 41 : Physical chemistry, functional solid state chemistry, inorganic/coordination chemistry, analytical chemistry, inorganic materials chemistry, energy-related chemistry, and related fields |   |
| Basic Section  |   |
| 32010  | Fundamental physical chemistry-related                              |
| 32020  | Functional solid state chemistry-related                            |
| 34010  | Inorganic/coordination chemistry-related                            |
| 34020  | Analytical chemistry-related  |
| 34030  | Green sustainable chemistry and environmental chemistry-related     |
| 36010  | Inorganic compounds and inorganic materials chemistry-related       |
| 36020  | Energy-related chemistry  |
| Document Review Section 42 : Organic chemistry, polymers, organic materials, biomolecular chemistry, and related fields  |   |
| Basic Section  |   |
| 33010  | Structural organic chemistry and physical organic chemistry-related |
| 33020  | Synthetic organic chemistry-related                                 |
| 35010  | Polymer chemistry-related   |
| 35020  | Polymer materials-related   |
| 35030  | Organic functional materials-related                                |
| 37010  | Bio-related chemistry   |
| 37020  | Chemistry and chemical methodology of biomolecules-related          |
| 37030  | Chemical biology-related  |

| Panel Review Section: Engineering sciences   |   |
|--|---|
| Document Review Section 51 : Mechanics of materials, production-, design-, nuclear-, earth resources-, energy-, fluid-, thermal-, aerospace-, marine and maritime-engineering, mechanical dynamics, robotics, and related fields |   |
| Basic Section  |   |
| 18010  | Mechanics of materials and materials-related                              |
| 18020  | Manufacturing and production engineering-related                          |
| 18030  | Design engineering-related  |
| 18040  | Machine elements and tribology-related                                    |
| 19010  | Fluid engineering-related   |
| 19020  | Thermal engineering-related   |
| 20010  | Mechanics and mechatronics-related  |
| 20020  | Robotics and intelligent system-related                                   |
| 24010  | Aerospace engineering-related   |
| 24020  | Marine engineering-related  |
| 31010  | Nuclear engineering-related   |
| 31020  | Earth resource engineering, Energy sciences-related                       |
| Document Review Section 52 : Electrical and electronic engineering, applied condensed matter physics, applied physics and engineering, and related fields  |   |
| Basic Section  |   |
| 21010  | Power engineering-related   |
| 21020  | Communication and network engineering-related                             |
| 21030  | Measurement engineering-related   |
| 21040  | Control and system engineering-related                                    |
| 21050  | Electric and electronic materials-related                                 |
| 21060  | Electron device and electronic equipment-related                          |
| 29010  | Applied physical properties-related                                       |
| 29020  | Thin film/surface and interfacial physical properties-related             |
| 29030  | Applied condensed matter physics-related                                  |
| 30010  | Crystal engineering-related   |
| 30020  | Optical engineering and photon science-related                            |
| Document Review Section 53 : Civil engineering, social systems engineering, safety engineering, disaster prevention engineering, architecture, building engineering, and related fields  |   |
| Basic Section  |   |
| 22010  | Civil engineering material, execution and construction management-related |
| 22020  | Structure engineering and earthquake engineering-related                  |
| 22030  | Geotechnical engineering-related  |
| 22040  | Hydroengineering-related  |
| 22050  | Civil engineering plan and transportation engineering-related             |
| 22060  | Environmental systems for civil engineering-related                       |
| 23010  | Building structures and materials-related                                 |
| 23020  | Architectural environment and building equipment-related                  |
| 23030  | Architectural planning and city planning-related                          |
| 23040  | Architectural history and design-related                                  |
| 90010  | Design-related  |
| 25010  | Social systems engineering-related  |
| 25020  | Safety engineering-related  |
| 25030  | Disaster prevention engineering-related                                   |

| Panel Review Section: Engineering sciences (continued)  |  |
|---|--|
| Document Review Section 54: Materials engineering, chemical engineering, nano/micro science, and related fields |  |
| Basic Section   |  |
| 26010   | Metallic material properties-related                     |
| 26020   | Inorganic materials and properties-related               |
| 26030   | Composite materials and interfaces-related               |
| 26040   | Structural materials and functional materials-related    |
| 26050   | Material processing and microstructure control-related   |
| 26060   | Metals production and resources production-related       |
| 27010   | Transport phenomena and unit operations-related          |
| 27020   | Chemical reaction and process system engineering-related |
| 27030   | Catalyst and resource chemical process-related           |
| 27040   | Biofunction and bioprocess engineering-related           |
| 28010   | Nanometer-scale chemistry-related                        |
| 28020   | Nanostructural physics-related                           |
| 28030   | Nanomaterials-related                                    |
| 28040   | Nanobioscience-related                                   |
| 28050   | Nano/micro-systems-related                               |
| Document Review Section 90 : Biomedical engineering and related fields  |  |
| Basic Section   |  |
| 90110   | Biomedical engineering-related                           |
| 90120   | Biomaterials-related                                     |
| 90130   | Medical systems-related                                  |
| 90140   | Medical technology assessment-related                    |
| 90150   | Medical assistive technology-related                     |

| Panel Review Section: Informatics   |  |
|---|--|
| Document Review Section 61 : Information science, computer engineering, applied informatics, and related fields |  |
| Basic Section   |  |
| 60010   | Theory of informatics-related  |
| 60020   | Mathematical informatics-related   |
| 60030   | Statistical science-related  |
| 60040   | Computer system-related  |
| 60050   | Software-related   |
| 60060   | Information network-related  |
| 60070   | Information security-related   |
| 60080   | Database-related   |
| 60090   | High performance computing-related   |
| 60100   | Computational science-related  |
| 62010   | Life, health and medical informatics-related                               |
| 62020   | Web informatics and service informatics-related                            |
| 62030   | Learning support system-related  |
| 62040   | Entertainment and game informatics-related                                 |
| 90020   | Library and information science, humanistic and social informatics-related |
| Document Review Section 62 : Human informatics and related fields   |  |
| Basic Section   |  |
| 61010   | Perceptual information processing-related                                  |
| 61020   | Human interface and interaction-related                                    |
| 61030   | Intelligent informatics-related  |
| 61040   | Soft computing-related   |
| 61050   | Intelligent robotics-related   |
| 61060   | Kansei informatics-related   |
| 90010   | Design-related   |
| 90030   | Cognitive science-related  |

| Panel Review Section: Biological sciences  |   |
|--|---|
| Document Review Section 71 : Biology at molecular to cellular levels, and related fields                     |   |
| Basic Section  |   |
| 43010  | Molecular biology-related   |
| 43020  | Structural biochemistry-related   |
| 43030  | Functional biochemistry-related   |
| 43040  | Biophysics-related  |
| 43050  | Genome biology-related  |
| 43060  | System genome science-related   |
| Document Review Section 72 : Biology at cellular to organismal levels, and related fields                    |   |
| Basic Section  |   |
| 44010  | Cell biology-related  |
| 44020  | Developmental biology-related   |
| 44030  | Plant molecular biology and physiology-related                            |
| 44040  | Morphology and anatomical structure-related                               |
| 44050  | Animal physiological chemistry, physiology and behavioral biology-related |
| Document Review Section 73 : Biology at organismal to population levels and anthropology, and related fields |   |
| Basic Section  |   |
| 45010  | Genetics-related  |
| 45020  | Evolutionary biology-related  |
| 45030  | Biodiversity and systematics-related                                      |
| 45040  | Ecology and environment-related   |
| 45050  | Physical anthropology-related   |
| 45060  | Applied anthropology-related  |
| Document Review Section 74 : Neuroscience and related fields   |   |
| Basic Section  |   |
| 46010  | Neuroscience-general-related  |
| 46020  | Anatomy and histopathology of nervous system-related                      |
| 46030  | Function of nervous system-related  |

| Panel Review Section: Agriculture/Environmental sciences  |   |
|---|---|
| Document Review Section 81 : Agricultural chemistry and related fields  |   |
| Basic Section   |   |
| 38010   | Plant nutrition and soil science-related  |
| 38020   | Applied microbiology-related  |
| 38030   | Applied biochemistry-related  |
| 38040   | Bioorganic chemistry-related  |
| 38050   | Food sciences-related   |
| 38060   | Applied molecular and cellular biology-related  |
| Document Review Section 82 : Agricultural and environmental biology, agricultural economics and rural sociology, agricultural engineering, and related fields |   |
| Basic Section   |   |
| 39010   | Science in plant genetics and breeding-related  |
| 39020   | Crop production science-related   |
| 39030   | Horticultural science-related   |
| 39040   | Plant protection science-related  |
| 39050   | Insect science-related  |
| 39060   | Conservation of biological resources-related  |
| 39070   | Landscape science-related   |
| 41010   | Agricultural and food economics-related   |
| 41020   | Rural sociology and agricultural structure-related                                      |
| 41030   | Rural environmental engineering and planning-related                                    |
| 41040   | Agricultural environmental engineering and agricultural information engineering-related |
| 41050   | Environmental agriculture-related   |
| Document Review Section 83 : Forestry and forest products science, applied aquatic science, and related fields  |   |
| Basic Section   |   |
| 40010   | Forest science-related  |
| 40020   | Wood science-related  |
| 40030   | Aquatic bioproduction science-related   |
| 40040   | Aquatic life science-related  |
| Document Review Section 84 : Veterinary medical science, animal science, and related fields   |   |
| Basic Section   |   |
| 42010   | Animal production science-related   |
| 42020   | Veterinary medical science-related  |
| 42030   | Animal life science-related   |
| 42040   | Laboratory animal science-related   |
| Document Review Section 85 : Environmental analyses and evaluation, environmental conservation measure, and related fields                                    |   |
| Basic Section   |   |
| 63010   | Environmental dynamic analysis-related  |
| 63020   | Radiation influence-related   |
| 63030   | Chemical substance influence on environment-related                                     |
| 63040   | Environmental impact assessment-related   |
| 64010   | Environmental load and risk assessment-related  |
| 64020   | Environmental load reduction and remediation-related                                    |
| 64030   | Environmental materials and recycle technology-related                                  |
| 64040   | Social-ecological systems-related   |
| 64050   | Sound material-cycle social systems-related   |
| 64060   | Environmental policy and social systems-related   |

| Panel Review Section: Medicine dentistry and pharmacy   |  |
|---|--|
| Document Review Section 91 : Pharmaceutical sciences and related fields   |  |
| Basic Section   |  |
| 47010   | Pharmaceutical chemistry and drug development sciences-related   |
| 47020   | Pharmaceutical analytical chemistry and physicochemistry-related |
| 47030   | Pharmaceutical hygiene and biochemistry-related                  |
| 47040   | Pharmacology-related   |
| 47050   | Environmental and natural pharmaceutical resources-related       |
| 47060   | Clinical pharmacy-related  |
| Document Review Section 92 : Biomedical structure and function and related fields   |  |
| Basic Section   |  |
| 48010   | Anatomy-related  |
| 48020   | Physiology-related   |
| 48030   | Pharmacology-related   |
| 48040   | Medical biochemistry-related                                     |
| Document Review Section 93 : Pathology, infection/immunology, and related fields  |  |
| Basic Section   |  |
| 49010   | Pathological biochemistry-related                                |
| 49020   | Human pathology-related  |
| 49030   | Experimental pathology-related                                   |
| 49040   | Parasitology-related   |
| 49050   | Bacteriology-related   |
| 49060   | Virology-related   |
| 49070   | Immunology-related   |
| Document Review Section 94 : Oncology, brain sciences, and related fields   |  |
| Basic Section   |  |
| 50010   | Tumor biology-related  |
| 50020   | Tumor diagnostics and therapeutics-related                       |
| 51010   | Basic brain sciences-related                                     |
| 51020   | Cognitive and brain science-related                              |
| 51030   | Pathophysiologic neuroscience-related                            |
| Document Review Section 95 : General internal medicine, organ-based internal medicine, internal medicine of the bio-information integration, and related fields |  |
| Basic Section   |  |
| 52010   | General internal medicine-related                                |
| 52020   | Neurology-related  |
| 52030   | Psychiatry-related   |
| 52040   | Radiological sciences-related                                    |
| 52050   | Embryonic medicine and pediatrics-related                        |
| 53010   | Gastroenterology-related   |
| 53020   | Cardiology-related   |
| 53030   | Respiratory medicine-related                                     |
| 53040   | Nephrology-related   |
| 53050   | Dermatology-related  |
| 54010   | Hematology and medical oncology-related                          |
| 54020   | Connective tissue disease and allergy-related                    |
| 54030   | Infectious disease medicine-related                              |
| 54040   | Metabolism and endocrinology-related                             |

| Panel Review Section: Medicine dentistry and pharmacy (continued)   |  |
|---|--|
| Document Review Section 96 : Surgery of the organs maintaining homeostasis, surgery related to the biological and sensory functions, and related fields |  |
| Basic Section   |  |
| 55010   | General surgery and pediatric surgery-related                    |
| 55020   | Digestive surgery-related  |
| 55030   | Cardiovascular surgery-related                                   |
| 55040   | Respiratory surgery-related                                      |
| 55050   | Anesthesiology-related   |
| 55060   | Emergency medicine-related                                       |
| 56010   | Neurosurgery-related   |
| 56020   | Orthopedics-related  |
| 56030   | Urology-related  |
| 56040   | Obstetrics and gynecology-related                                |
| 56050   | Otorhinolaryngology-related                                      |
| 56060   | Ophthalmology-related  |
| 56070   | Plastic and reconstructive surgery-related                       |
| Document Review Section 97 : Oral science and related fields  |  |
| Basic Section   |  |
| 57010   | Oral biological science-related                                  |
| 57020   | Oral pathobiological science-related                             |
| 57030   | Conservative dentistry-related                                   |
| 57040   | Regenerative dentistry and dental engineering-related            |
| 57050   | Prosthodontics-related   |
| 57060   | Surgical dentistry-related                                       |
| 57070   | Developmental dentistry-related                                  |
| 57080   | Social dentistry-related   |
| Document Review Section 98 : Society medicine, nursing, sports sciences, physical education, health sciences, and related fields                        |  |
| Basic Section   |  |
| 58010   | Medical management and medical sociology-related                 |
| 58020   | Hygiene and public health-related: including laboratory approach |
| 58030   | Hygiene and public health-related: excluding laboratory approach |
| 58040   | Forensics medicine-related                                       |
| 58050   | Fundamental of nursing-related                                   |
| 58060   | Clinical nursing-related   |
| 58070   | Lifelong developmental nursing-related                           |
| 58080   | Gerontological nursing and community health nursing-related      |
| 59010   | Rehabilitation science-related                                   |
| 59020   | Sports sciences-related  |
| 59030   | Physical education, and physical and health education-related    |
| 59040   | Nutrition science and health science-related                     |
| Document Review Section 90 : Biomedical engineering and related fields  |  |
| Basic Section   |  |
| 90110   | Biomedical engineering-related                                   |
| 90120   | Biomaterials-related   |
| 90130   | Medical systems-related  |
| 90140   | Medical technology assessment-related                            |
| 90150   | Medical assistive technology-related                             |

## Review Section Table (category listings)

When selecting a review section, use this table to ascertain an overall grasp of the Review Sections. Then, based on the detailed content of the Review Sections, select a review section from the listings for your application.

Among the basic sections, some have plural document and/or panel review sections. In the table below, nine of the basic sections have plural corresponding document review sections. Among them, eight have plural corresponding panel review sections. However, basic sections 90110 through 90150 have only one corresponding document review section and two panel review sections.

### 【Basic Sections with plural Document and Panel Review Sections】

| Basic Section | Content  | Corresponding Document Review Section | Corresponding Panel Review Section                    |
|---------------|--|---------------------------------------|---|
| 02090         | Japanese language education-related  | 12, 25                                | Humanities, Social sciences                           |
| 02100         | Foreign language education-related   | 12, 25                                | Humanities, Social sciences                           |
| 80010         | Area studies-related   | 14, 22                                | Humanities, Social sciences                           |
| 80020         | Tourism studies-related  | 14, 23, 24                            | Humanities, Social sciences                           |
| 80030         | Gender studies-related   | 14, 22, 24                            | Humanities, Social sciences                           |
| 80040         | Quantum beam science-related   | 34, 35                                | Mathematical and physical sciences                    |
| 90010         | Design-related   | 11, 53, 62                            | Humanities, Engineering sciences, Informatics         |
| 90020         | Library and information science, humanistic and social informatics-related | 12, 61                                | Humanities, Informatics                               |
| 90030         | Cognitive science-related  | 26, 62                                | Social sciences, Informatics                          |
| 90110         | Biomedical engineering-related   | 90                                    | Engineering sciences, Medicine dentistry and pharmacy |
| 90120         | Biomaterials-related   | 90                                    | Engineering sciences, Medicine dentistry and pharmacy |
| 90130         | Medical systems-related  | 90                                    | Engineering sciences, Medicine dentistry and pharmacy |
| 90140         | Medical technology assessment-related                                      | 90                                    | Engineering sciences, Medicine dentistry and pharmacy |
| 90150         | Medical assistive technology-related                                       | 90                                    | Engineering sciences, Medicine dentistry and pharmacy |

### 【Document Review Sections with plural Panel Review Sections】

| Document Review Section | Content                                   | Corresponding panel screening section                 |
|-------------------------|---|---|
| 90                      | Biomedical engineering and related fields | Engineering sciences, Medicine dentistry and pharmacy |



Panel Review Section: Humanities

Document Review Section 11 : Philosophy, art, and related fields

| Basic Section | Examples of related research content   |
|---------------|--|
| 01010         | Philosophy and ethics-related  |
|               | Philosophy in general, Ethics in general, Western philosophy, Western ethics, Japanese philosophy, Japanese ethics, Applied ethics, etc.   |
| 01020         | Chinese philosophy, Indian philosophy and Buddhist philosophy-related  |
|               | Chinese philosophy/thought, Indian philosophy/thought, Buddhist philosophy, Bibliography, Philology, etc.  |
| 01030         | Religious studies-related  |
|               | History of religions, Philosophy of religion, Theology, Sociology of religion, Psychology of religion, Anthropology of religion, Studies of religious folklore, Mythology, Bibliography, Philology, etc. |
| 01040         | History of thought-related   |
|               | History of thought in general, History of Western thought, History of Eastern thought, History of Japanese thought, History of Islamic thought, etc.   |
| 01050         | Aesthetics and art studies-related   |
|               | Philosophy of art, Aesthetics, Music theory, Theatrical theory, Miscellaneous art studies, etc.  |
| 01060         | History of arts-related  |
|               | Japanese art, Eastern art, Western art, Contemporary art, Craft, Design, Architecture, Costume, Photography, etc.  |
| 01070         | Theory of art practice-related   |
|               | Art expression, Arts management, Art policy, Art production, etc.  |
| 01080         | Sociology of science, history of science and technology-related  |
|               | Sociology of science, History of science, History of technology, History of medicine, Industrial archeology, Philosophy of science, Foundation of science, STS (Science, technology and society), etc.   |
| 90010         | Design-related   |
|               | Information design, Environmental design, Industrial design, Spatial design, Design history, Theory of design, Design standard, Design support, Evaluation of design, Design education, etc.             |

Document Review Section 12 : Literature, linguistics, and related fields

| Basic Section | Examples of related research content   |
|---------------|--|
| 02010         | Japanese literature-related  |
|               | Japanese literature in general, Ancient literature, Medieval literature, Chinese classics in Japan, Bibliography, Philology, Premodern literature, Modern literature, Contemporary literature, Literary theory, etc.                               |
| 02020         | Chinese literature-related   |
|               | Chinese literature, Bibliography, Philology, Literary theory, etc.   |
| 02030         | English literature and literature in the English language-related  |
|               | English literature, American literature, Literature in the English language, Literary theory, Bibliography, Philology, etc.  |
| 02040         | European literature-related  |
|               | French literature, Literature in the French language, German literature, Literature in the German language, Classics, Russian and East European literature, Literature in other European languages, Literary theory, Bibliography, Philology, etc. |

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| 02050 | Literature in general-related  |
|       | Literature in other languages and areas, Literary theory, Comparative literature, Bibliography, Philology, Literature education, etc.  |
| 02060 | Linguistics-related  |
|       | Phonetics/phonology, Semantics/pragmatics, Morphosyntax, Sociolinguistics, Contrastive linguistics, Psycholinguistics, Neurolinguistics, Historical linguistics, Corpus linguistics, Endangered and minority languages, etc.   |
| 02070 | Japanese linguistics-related   |
|       | Phonetics/phonology, Writing systems, Lexicon and semantics, Grammar, Stylistics, Pragmatics, Language life, Dialect, History of the Japanese language, History of Japanese linguistics, etc.  |
| 02080 | English linguistics-related  |
|       | Phonetics/phonology, Lexicon and semantics, Grammar, Stylistics, Pragmatics, Sociolinguistics, Diversity of the English language, Corpus linguistics, History of the English language, History of English linguistics, etc.  |
| 02090 | Japanese language education-related  |
|       | Research on learners, Language acquisition, Teaching material, Curriculum evaluation, Japanese language education for specific purposes, Bilingual education, Research on teachers, Japanese language for Japanese language education, History of Japanese language education, Cross-cultural understanding, etc.            |
| 02100 | Foreign language education-related   |
|       | Learning method, Computer-assisted language learning (CALL), Teaching material, Language testing, Theory of second language acquisition, Early English education, History of foreign language education and language policies, Curriculum evaluation, Training foreign language teachers, Cross-cultural understanding, etc. |
| 90020 | Library and information science, humanistic and social informatics-related   |
|       | Library science, Information services, Information organizing, Information retrieval, Bibliometrics, Information resources, Information ethics, Digital humanities, Social Informatics, Digital archives, etc.   |

## Document Review Section 13: History, archaeology, museology, and related fields

| Basic Section | Examples of related research content   |
|---------------|--|
| 03010         | Historical studies in general-related  |
|               | Historical theory, Historical methodology, Research in historical materials, Memory and medium, World history, History of cultural and diplomatic exchange, Comparative history, Global history, Environmental history, History of emotions, etc.  |
| 03020         | Japanese history-related   |
|               | History of ancient Japan, History of medieval Japan, History of early modern Japan, History of modern Japan, History of local Japan, History of external relations, History of culture and religion, History of Japanese environment, History of Japanese city, Research in historical materials, etc. |
| 03030         | History of Asia and Africa-related   |
|               | Chinese history, East Asian history, Central Eurasian history, Southeast Asian history, Oceanian history, South Asian history, West Asian history, African history, History of cultural and diplomatic exchange, Research in historical materials, etc.  |
| 03040         | History of Europe and America-related  |
|               | Ancient European history, Medieval European history, Modern and contemporary West European history, Modern and contemporary East European history, North and South American history, History of cultural and diplomatic exchange, Comparative history, Research in historical materials, etc.          |
| 03050         | Archaeology-related  |
|               | Archaeology in general, Prehistoric archaeology, Historical archaeology, Japanese archaeology, Ancient civilizations, History of material culture, Experimental archaeology, Information archaeology, Study of buried cultural property, Ecological archeology, etc.                                   |

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| 03060 | Cultural assets study-related  |
|       | Dating methods, Material analysis, Production techniques, Conservation science, Archaeological prospection, Plant and animal residues, Human remains, Cultural heritage, Cultural property policy, Restoration of cultural properties, etc.                                    |
| 03070 | Museology-related  |
|       | Museum displays and exhibitions, Museum management, Museum collections and documentation, Museum conservation and preservation, Museum education and learning, Museum informatics and media studies, Museum finance and administration, History of museums and museology, etc. |

## Document Review Section 14: Geography, cultural anthropology, folklore, and related fields

| Basic Section | Examples of related research content   |
|---------------|--|
| 04010         | Geography-related  |
|               | Geography in general, Land use, Landscape, Environmental system, Geomorphology, Climatology, Hydrology, Cartography, Geographic information system, Regional planning, etc.                                      |
| 04020         | Human geography-related  |
|               | Human geography in general, Economic geography, Social geography, Political geography, Cultural geography, Urban geography, Rural geography, Historical geography, Regional geography, Geography education, etc. |
| 04030         | Cultural anthropology and folklore-related   |
|               | Cultural anthropology in general, Folklore in general, Material culture, Ecology, Social relationship, Religion, Arts, Health care, Border crossing, Minority, etc.  |
| 80010         | Area studies-related   |
|               | Area studies in general, Cross-regional comparative studies, Aid, Social development, Interregional exchange, Environment, Transnationalism, Globalization, Refugees, Conflict, etc.                             |
| 80020         | Tourism studies-related  |
|               | Tourism studies in general, Tourism resources, Tourism policy, Tourism industry, Tourist area, Tourists, Tourism culture, Tourism media, Sustainable tourism, Tourism ethics, etc.                               |
| 80030         | Gender studies-related   |
|               | Gender studies in general, Feminism, Men's studies, Sexuality, Queer studies, Labor, Violence, Prostitution, Reproductive technology, Gender equality, etc.  |

## Panel Review Section: Social sciences

## Document Review Section 21 :Law and related fields

| Basic Section | Examples of related research content   |
|---------------|--|
| 05010         | Legal theory and history-related   |
|               | Legal philosophy, Roman law, Legal history, Sociology of law, Comparative law, Foreign law, Law and policy, Law and economics, Judicial system, etc. |
| 05020         | Public law-related   |
|               | Constitutional law, Administrative law, Tax law, etc.  |
| 05030         | International law-related  |
|               | Public international law, Private international law, International human rights law, International economic law, EU law, etc.                        |
| 05040         | Social law-related   |
|               | Labor law, Economic law, Social security law, Education law, etc.  |
| 05050         | Criminal law-related   |
|               | Criminal law, Criminal procedure, Criminology, Criminal justice policy, Juvenile law, Law and psychology, etc.                                       |

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| 05060 | Civil law-related  |
|       | Civil law, Commercial law, Civil procedure, Insolvency law, Alternative dispute resolution, etc.                                 |
| 05070 | New fields of law-related  |
|       | Environmental law, Medical law, Information law, Consumer law, Intellectual property law, Law and gender, Legal profession, etc. |

## Document Review Section 22 : Political science and related fields

| Basic Section | Examples of related research content   |
|---------------|--|
| 06010         | Politics-related   |
|               | Political theory, History of political thought, Political history, Political process, Political participation, Political economy, Public administration, Local government, Comparative politics, Public policy, etc. |
| 06020         | International relations-related  |
|               | Theory of international relations, International history, Foreign policy, International security, International political economy, Global governance, International cooperation, Peace research, etc.                |
| 80010         | Area studies-related   |
|               | Area studies in general, Cross-regional comparative studies, Aid, Social development, Interregional exchange, Environment, Transnationalism, Globalization, Refugees, Conflict, etc.                                 |
| 80030         | Gender studies-related   |
|               | Gender studies in general, Feminism, Men's studies, Sexuality, Queer studies, Labor, Violence, Prostitution, Reproductive technology, Gender equality, etc.  |

## Document Review Section 23 : Economics, business administration, and related fields

| Basic Section | Examples of related research content  |
|---------------|---|
| 07010         | Economic theory-related   |
|               | Microeconomics, Macroeconomics, Game theory, Behavioral economics, Experimental economics, Economic theory, Evolutionary economics, Economic institutions, Economic systems, etc.   |
| 07020         | Economic doctrines and economic thought-related   |
|               | Economic doctrines, Economic thought, Social thought, Economic philosophy, etc.   |
| 07030         | Economic statistics-related   |
|               | Statistical system, Statistical research, Economic statistics, Big data, Econometrics, Financial econometrics, etc.   |
| 07040         | Economic policy-related   |
|               | Economic policy, Industrial organization, International economics, Development economics, Environmental and resource economics, Japanese economy, Regional economy, Urban economics, Transportation economics, Spatial economics, etc.  |
| 07050         | Public economics and labor economics-related  |
|               | Public finance, Public economics, Health economics, Labor economics, Social security, Education economics, Law and economics, Political economy, Demography, etc.   |
| 07060         | Money and finance-related   |
|               | Monetary economics, Finance, International finance, Corporate finance, Financial engineering, Insurance, etc.   |
| 07070         | Economic history-related  |
|               | Economic history, Business history, Industrial history, etc.  |
| 07080         | Business administration-related   |
|               | Organization theory, Corporate strategy, Organizational behavior, Corporation theory, Corporate governance theory, Human resource management, Technology/Innovation management theory, International business, Management information, Business administration in general, etc. |

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| 07090 | Commerce-related   |
|       | Marketing, Consumer behavior, Distributive sciences, Logistics, Commerce in general, etc.  |
| 07100 | Accounting-related   |
|       | Financial accounting, Management accounting, Auditing, Accounting in general, etc.   |
| 80020 | Tourism studies-related  |
|       | Tourism studies in general, Tourism resources, Tourism policy, Tourism industry, Tourist area, Tourists, Tourism culture, Tourism media, Sustainable tourism, Tourism ethics, etc. |

## Document Review Section 24 : Sociology and related fields

| Basic Section | Examples of related research content  |
|---------------|---|
| 08010         | Sociology-related   |
|               | Sociology in general, Community, Family, Labor, Stratification, Culture, Media, Ethnicity, Social movements, Social research, etc.  |
| 08020         | Social welfare-related  |
|               | Social work, Social policy, Social welfare history, Child welfare, Social welfare for people with disabilities, Social welfare for aging, Community welfare, Poverty, Volunteerism, Social welfare in general, etc. |
| 08030         | Family and consumer sciences, and culture and living-related  |
|               | Dress and fashion, Diet habits, Housing, Family resource management, Family relations, Lifestyle, Culture and living, Family and consumer education, Family and consumer sciences in general, etc.                  |
| 80020         | Tourism studies-related   |
|               | Tourism studies in general, Tourism resources, Tourism policy, Tourism industry, Tourist area, Tourists, Tourism culture, Tourism media, Sustainable tourism, Tourism ethics, etc.                                  |
| 80030         | Gender studies-related  |
|               | Gender studies in general, Feminism, Men's studies, Sexuality, Queer studies, Labor, Violence, Prostitution, Reproductive technology, Gender equality, etc.   |

## Document Review Section 25 : Education and related fields

| Basic Section | Examples of related research content  |
|---------------|---|
| 09010         | Education-related   |
|               | History of education, Philosophy of education, Curriculum and pedagogy, Teacher and trainer, School education, Social and community education, Institutions and administration, Comparative education, Educational administration, etc.             |
| 09020         | Sociology of education-related  |
|               | Sociology of education, Socialization, Educational community, Destination and career formation, Class disparities, Gender, Education policy, Globalization and development, etc.  |
| 09030         | Childhood and nursery/pre-school education-related  |
|               | Childhood, Nursery/pre-school education, Right of child, Development, Contents and methods of child care, Childcare facilities and kindergarten, Caregiver and pre-school teacher, Child care support, Childhood culture, History and thought, etc. |
| 09040         | Education on school subjects and primary/secondary education-related  |
|               | Education of individual subjects, Lessons of each subject area, Instructional guidance, Teacher education, Special activities, Integrated studies, Moral education, etc.  |
| 09050         | Tertiary education-related  |
|               | Policy, Admission and articulation, Curriculum, Career guidance, Teacher and staff, Scientific research, Regional link and contribution, Globalization, Management and governance, Non-university higher education, etc.                            |

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| 09060 | Special needs education-related  |
|       | Philosophy and history, Inclusion and cohesive society, Instructions and supports, Developmental disabilities, Emotional disturbance, Intellectual disabilities, Language disorders, Physical disabilities, Career education, etc.   |
| 09070 | Educational technology-related   |
|       | Curriculum development, Teaching-learning support systems, Utilization of media, Utilization of ICT, Teacher's education, Information literacy, etc.   |
| 09080 | Science education-related  |
|       | Science education, Science communication, Scientific literacy, Science and society, STEM education, etc.   |
| 02090 | Japanese language education-related  |
|       | Research on learners, Language acquisition, Teaching material, Curriculum evaluation, Japanese language education for specific purposes, Bilingual education, Research on teachers, Japanese language for Japanese language education, History of Japanese language education, Cross-cultural understanding, etc.            |
| 02100 | Foreign language education-related   |
|       | Learning method, Computer-assisted language learning (CALL), Teaching material, Language testing, Theory of second language acquisition, Early English education, History of foreign language education and language policies, Curriculum evaluation, Training foreign language teachers, Cross-cultural understanding, etc. |

Document Review Section 26 : Psychology and related fields

| Basic Section | Examples of related research content  |
|---------------|---|
| 10010         | Social psychology-related   |
|               | Social psychology in general, Self, Group, Attitude and behavior, Affection/emotion, Interpersonal relation, Social issues, Culture, etc.                                     |
| 10020         | Educational psychology-related  |
|               | Educational psychology in general, Development, Family, School, Clinical practice, Personality, Learning, Assessment and evaluation, etc.                                     |
| 10030         | Clinical psychology-related   |
|               | Clinical psychology in general, Psychological disorder, Assessment, Psychological intervention, Training, Mental health, Crime and delinquency, Community, etc.               |
| 10040         | Experimental psychology-related   |
|               | Experimental psychology in general, Sensation, Perception, Attention, Memory, Language, Emotion, Learning, etc.   |
| 90030         | Cognitive science-related   |
|               | Cognitive science in general, Cognitive models, Kansei, Human factors, Cognitive and brain science, Comparative cognition, Cognitive linguistics, Cognitive engineering, etc. |

Panel Review Section: Mathematical and physical sciences

Document Review Section 31 : Algebra, geometry, and related fields

| Basic Section | Examples of related research content  |
|---------------|---|
| 11010         | Algebra-related   |
|               | Group theory, Ring theory, Representation theory, Algebraic combinatorics, Number theory, Arithmetic geometry, Algebraic geometry, Algebraic analysis, etc. |
| 11020         | Geometry-related  |
|               | Differential geometry, Riemannian geometry, Symplectic geometry, Complex geometry, Topology, Differential topology, Low dimensional topology, etc.          |

| Document Review Section 32: Analysis, applied mathematics, and related fields |  |
|---|--|
| Basic Section   | Examples of related research content   |
| 12010   | Basic analysis-related   |
|   | Functional analysis, Complex analysis, Probability theory, Harmonic analysis, Operator theory, Spectral analysis, Operator algebras, Algebraic analysis, Representation theory, etc.                 |
| 12020   | Mathematical analysis-related  |
|   | Functional equations, Real analysis, Dynamical system, Variational method, Nonlinear analysis, Applied analysis, etc.  |
| 12030   | Basic mathematics-related  |
|   | Mathematical logic and foundations, Information theory, Discrete mathematics, Computer mathematics, History of mathematics, etc.   |
| 12040   | Applied mathematics and statistics-related   |
|   | Numerical analysis, Mathematical modelling, Optimal control, Game theory, Statistical mathematics, etc.  |
| Document Review Section 33: Condensed matter physics and related fields       |  |
| Basic Section   | Examples of related research content   |
| 13010   | Mathematical physics and fundamental theory of condensed matter physics-related  |
|   | Statistical physics, Fundamental theory of condensed matter physics, Mathematical physics, Nonequilibrium nonlinear physics, Fluid dynamics, Computational physics, Quantum information theory, etc. |
| 13020   | Semiconductors, optical properties of condensed matter and atomic physics-related  |
|   | Semiconductors, Dielectrics, Atoms and molecules, Mesoscopic systems, Crystals, Surfaces and interfaces, Optical properties of condensed matter, Quantum electronics, Quantum information, etc.      |
| 13030   | Magnetism, superconductivity and strongly correlated systems-related   |
|   | Magnetism, Strongly correlated electron systems, Superconductivity, Quantum fluids and solids, Molecular solids, etc.  |
| 13040   | Biophysics, chemical physics and soft matter physics-related   |
|   | Physics of biological phenomena, Physics of biological matters, Liquids and glasses, Soft matters, Rheology, etc.  |
| Document Review Section 34: Plasma science and related fields                 |  |
| Basic Section   | Examples of related research content   |
| 14010   | Fundamental plasma-related   |
|   | Basic plasmas, Magnetized plasmas, Laser plasmas, Strongly coupled plasmas, Plasma diagnostics, Astrophysical and space plasmas, etc.  |
| 14020   | Nuclear fusion-related   |
|   | Plasma confinement, Plasma control, Plasma heating, Plasma diagnostics, Edge plasma, Plasma wall interaction, Inertial fusion, Fusion material, Fusion system, etc.                                  |
| 14030   | Applied plasma science-related   |
|   | Plasma processing, Plasma material science, General plasma applications, etc.  |
| 80040   | Quantum beam science-related   |
|   | Accelerators, Beam physics, Radiation detectors, Beam control, Applied quantum beam science, etc.  |

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| Document Review Section 35: Particle-, nuclear-, astro-physics, and related fields  |   |
| Basic Section   | Examples of related research content  |
| 80040   | Quantum beam science-related  |
|   | Accelerators, Beam physics, Radiation detectors, Beam control, Applied quantum beam science, etc.   |
| 15010   | Theoretical studies related to particle-, nuclear-, cosmic ray and astro-physics  |
|   | Particle physics, Nuclear physics, Cosmic-ray physics, Astrophysics, Relativity, Gravity, etc.  |
| 15020   | Experimental studies related to particle-, nuclear-, cosmic ray and astro-physics   |
|   | Particle physics, Nuclear physics, Cosmic-ray physics, Astrophysics, Relativity, Gravity, etc.  |
| Document Review Section 36: Astronomy and related fields  |   |
| Basic Section   | Examples of related research content  |
| 16010   | Astronomy-related   |
|   | Theoretical astronomy, Radio astronomy, Optical/infrared astronomy, X-ray/ $\gamma$ -ray astronomy, Astrometry, Solar physics, Exoplanet astronomy, etc.                                    |
| Document Review Section 37: Earth and planetary science and related fields  |   |
| Basic Section   | Examples of related research content  |
| 17010   | Space and planetary sciences-related  |
|   | Solar-terrestrial physics, Aeronomy, Planetary science, Exoplanetary science, Extraterrestrial material science, etc.   |
| 17020   | Atmospheric and hydrospheric sciences-related   |
|   | Climate system, Atmospheric science, Ocean science, Limnology, Glaciology, Paleoclimatology, etc.   |
| 17030   | Human geosciences-related   |
|   | Geoenvironmental science, Natural disaster science, Geospatial information science, Quaternary research, Earth resources science, etc.  |
| 17040   | Solid earth sciences-related  |
|   | Solid earth geophysics, Geology, Earth's interior material science, Solid earth geochemistry, etc.  |
| 17050   | Biogeosciences-related  |
|   | Origin and evolution of life, Extremophile biology, Biogeochemistry, Paleoenvironmental science, Paleontology, etc.   |
| Panel Review Section: Chemistry   |   |
| Document Review Section 41: Physical chemistry, functional solid state chemistry, inorganic/coordination chemistry, analytical chemistry, inorganic materials chemistry, energy-related chemistry, and related fields |   |
| Basic Section   | Examples of related research content  |
| 32010   | Fundamental physical chemistry-related  |
|   | Gas, Liquid, Solid, Nanomaterials, Bio-related materials, Structure and properties, Chemical reactions, Spectroscopy, Theoretical calculation, Data science, etc.                           |
| 32020   | Functional solid state chemistry-related  |
|   | Molecular materials, Inorganic compounds, Hybrid compounds, Colloids, Surface/interface, Electrical properties, Optical properties, Magnetic properties, Energy conversion, Catalysis, etc. |



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| 34010 | Inorganic/coordination chemistry-related  |
|       | Coordination chemistry, Organometallic chemistry, Inorganic solid-state chemistry, Bioinorganic chemistry, Solution chemistry, Clusters, Supramolecular complexes, Coordination polymers, Typical elements, Physical properties and functions, etc. |
| 34020 | Analytical chemistry-related  |
|       | Spectrometric analysis, Advanced measurements, Surface/interface analysis, Separation analysis, Analytical reagents, Radiochemical analysis, Electrochemical analysis, Bioanalysis, New analysis methods, etc.                                      |
| 34030 | Green sustainable chemistry and environmental chemistry-related   |
|       | Green process, Green catalysts, Recycle, Environmental assessment, Environmentally conscious materials, Reduction of environmental load, Environmental restoration, Resource saving, Geochemistry, Environmental radioactivity, etc.                |
| 36010 | Inorganic compounds and inorganic materials chemistry-related   |
|       | Crystals, Amorphous, Ceramics, Semiconductors, Inorganic device-related materials, Low-dimensional compounds, Porous materials, Nanoparticles, Multicomponent compounds, Hybrid materials, etc.   |
| 36020 | Energy-related chemistry  |
|       | Energy resources, Energy conversion materials, Energy carriers, Solar energy utilization, Material separation, Catalytic transformation, Battery and electrochemical materials, Energy-saving materials, Renewable energy, Unused energy, etc.      |

## Document Review Section 42: Organic chemistry, polymers, organic materials, biomolecular chemistry, and related fields

| Basic Section | Examples of related research content  |
|---------------|---|
| 33010         | Structural organic chemistry and physical organic chemistry-related   |
|               | Chemistry of organic crystals, Molecular recognition, Supermolecules, Functional organic molecules, Extended $\pi$ -electron molecules, Organoelement chemistry, Reaction mechanism, Molecular chirality, Theoretical organic chemistry, etc. |
| 33020         | Synthetic organic chemistry-related   |
|               | Development of reactions, Reaction mechanism, Selective reactions, Asymmetric synthesis, Development of catalysts, Biocatalysis, Sustainable organic synthesis, Natural product synthesis, Process chemistry, etc.                            |
| 35010         | Polymer chemistry-related   |
|               | Polymer synthesis, Polymer reactions, Functional polymers, Self-assembled polymers, Non-covalent polymers, Chiral polymers, Bio-related polymers, Polymer properties, Polymer structures, Polymer interface, etc.                             |
| 35020         | Polymer materials-related   |
|               | Properties of polymer materials, Synthesis of polymer materials, Functional polymer materials, Environmentally friendly polymer materials, Liquid crystal polymers, Gel, Biopolymers, Polymer composites, Polymer processing, etc.            |
| 35030         | Organic functional materials-related  |
|               | Organic semiconductors, Liquid crystals, Optical materials, Device-related materials, Electrically conductive materials, Hybrid materials, Molecular functional materials, Organic hybrid materials, Materials for energy conversion, etc.    |
| 37010         | Bio-related chemistry   |
|               | Bioorganic chemistry, Bioinorganic chemistry, Biological reaction engineering, Biofunctional chemistry, Biofunctional materials, Biotechnology, etc.  |
| 37020         | Chemistry and chemical methodology of biomolecules-related  |
|               | Natural product chemistry, Biologically active compounds, Molecular mechanism of biological activities, Biofunctional molecules, Combinatorial chemistry, Metabolomic analysis, etc.  |
| 37030         | Chemical biology-related  |
|               | In vivo functional expression, Intracellular chemical reactions, Drug discovery science, Chemical library, Structure-activity relationship, Chemical probes, Biomolecular measurements, Molecular imaging, Proteomics, etc.                   |

Panel Review Section: Engineering sciences

Document Review Section 51 : Mechanics of materials, production-, design-, nuclear-, earth resources-, energy-, fluid-, thermal-, aerospace-, marine and maritime-engineering, mechanical dynamics, robotics, and related fields

| Basic Section | Examples of related research content   |
|---------------|--|
| 18010         | Mechanics of materials and materials-related   |
|               | Structural mechanics, Fatigue, Fracture, Biomaterials, Material design, Material characteristics, Material evaluation, etc.  |
| 18020         | Manufacturing and production engineering-related   |
|               | Machining, Non-traditional machining, Ultraprecision machining, Machine tools, Manufacturing systems, Precision metrology, Process planning, etc.  |
| 18030         | Design engineering-related   |
|               | Mechanical design, Product design, Design theory, Design for reliability, Optimal design, Computer-aided design, etc.  |
| 18040         | Machine elements and tribology-related   |
|               | Machine elements, Mechanisms, Tribology, Actuators, Micromachines, etc.  |
| 19010         | Fluid engineering-related  |
|               | Fluid machinery, Flow measurement, Computational fluid dynamics, Turbulence, Multiphase flow, Compressible flow, Incompressible flow, etc.   |
| 19020         | Thermal engineering-related  |
|               | Heat transfer, Convection, Combustion, Thermophysical properties, Refrigeration and air-conditioning, Heat engine, Energy conversion, etc.   |
| 20010         | Mechanics and mechatronics-related   |
|               | Kinematics, Kinetics, Vibration, Acoustics, Automation, Biomechanics, Instrument and control applications, Mechatronics applications, etc.   |
| 20020         | Robotics and intelligent system-related  |
|               | Robotics, Intelligent system, Human mechanical system, Human interface, Planning, Intelligent spatial system, Virtual reality, Augmented reality, etc.   |
| 24010         | Aerospace engineering-related  |
|               | Thermo-fluid dynamics, Structural mechanics, Propulsion, Aerospace craft design, Production engineering, Aircraft system, Aerodynamics, Spacecraft system, Space utilization, etc.   |
| 24020         | Marine engineering-related   |
|               | Navigation, Structural mechanics, Structural design, Production technology, Marine propulsion, Marine transport, Marine development, Underwater engineering, Polar engineering, Marine environmental technology, etc.          |
| 31010         | Nuclear engineering-related  |
|               | Reactor physics, Nuclear safety, Thermal-hydraulics and structure, Fuel material, Nuclear chemistry, Nuclear life cycle, Radiation safety, Radiation engineering, Fusion reactor engineering, Nuclear social environment, etc. |
| 31020         | Earth resource engineering, Energy sciences-related  |
|               | Resource prospecting, Resource development, Resource cycle, Resource economy, Energy system, Environmental load, Renewable energy, Natural resources and energy policy, etc.   |

Document Review Section 52 : Electrical and electronic engineering, applied condensed matter physics, applied physics and engineering, and related fields

| Basic Section | Examples of related research content  |
|---------------|---|
| 21010         | Power engineering-related   |
|               | Electrical energy-related, Energy conservation, Power system engineering, Electric machinery, Power electronics, Effective utilization of electric energy, Electromagnetic compatibility, Wireless power transfer, etc. |

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| 21020   | Communication and network engineering-related  |
|   | Information theory, Nonlinear theory, Signal processing, Communication systems, Modulation/demodulation, Antennas, Networks, Multimedia, Cryptography/security, etc.   |
| 21030   | Measurement engineering-related  |
|   | Measurement theory, Measuring instruments, Applied wave metrology, Measurement systems, Signal processing, Sensing, etc.   |
| 21040   | Control and system engineering-related   |
|   | Control theory, System theory, Control systems, Knowledge-based control systems, System information processing, System control applications, Biosystems engineering, etc.  |
| 21050   | Electric and electronic materials-related  |
|   | Semiconductor, Dielectric materials, Magnetic materials, Organic materials, Superconductor, Composite materials, Thin films, Functional materials, Thick films, Fabrication/characterization methods, etc.   |
| 21060   | Electron device and electronic equipment-related   |
|   | Electron devices, Circuit design, Optical devices, Spintronic devices, Millimeter wave/terahertz wave, Applied wave devices, Storage devices, Displays, Process technology, Implementation technology, etc.  |
| 29010   | Applied physical properties-related  |
|   | Magnetic materials, Superconductors, Dielectrics, Fine particles, Liquid crystals, New functional materials, Molecular electronics, Bioelectronics, Spintronics, etc.  |
| 29020   | Thin film/surface and interfacial physical properties-related  |
|   | Thin-film engineering, Surface and interfacial engineering, Surface science, Vacuum, Measurement, Analysis, Nanoscopic technology, Advanced equipment, Electronics application, etc.   |
| 29030   | Applied condensed matter physics-related   |
|   | Elementary quantities, Standards, Units, Physical quantity measurements and detection, Energy conversion, etc.   |
| 30010   | Crystal engineering-related  |
|   | Metal, Semiconductor, Ceramics, Amorphous, Crystal growth, Artificial structures, Device structure, Crystal characterization, Plasma process, etc.   |
| 30020   | Optical engineering and photon science-related   |
|   | Optical materials, Optical elements, Optical properties, Optical information processing, Laser, Optical sensing, Optical recording, Opto-electronics, Nonlinear optics, Quantum optics, etc.   |
| Document Review Section 53 : Civil engineering, social systems engineering, safety engineering, disaster prevention engineering, architecture, building engineering, and related fields |  |
| Basic Section   | Examples of related research content   |
| 22010   | Civil engineering material, execution and construction management-related  |
|   | Concrete, Steel, Composite material, Wood, Pavement material, Repair and reinforce material, Execution, Maintenance, Construction management, etc.   |
| 22020   | Structure engineering and earthquake engineering-related   |
|   | Applied mechanics, Structure engineering, Steel structure, Concrete structure, Composite structure, Wind engineering, Earthquake engineering, Aseismic structure, Earthquake prevention, etc.  |
| 22030   | Geotechnical engineering-related   |
|   | Soil mechanics, Foundation engineering, Rock engineering, Engineering Geology, Ground behavior, Geotechnical structures, Geo-disaster prevention, Geo-environment, Tunnel engineering, etc.  |
| 22040   | Hydroengineering-related   |
|   | Hydraulics, Environmental hydraulics, Hydrology, River engineering, Water resource engineering, Coastal engineering, Port and harbor engineering, Ocean engineering, etc.  |
| 22050   | Civil engineering plan and transportation engineering-related  |
|   | Civil engineering plan, Regional urban planning, Spatial planning, Disaster prevention plan, Transportation plan, Transportation engineering, Railway engineering, Surveying and remote sensing, Landscape design, Civil engineering history, etc. |

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| 22060 | Environmental systems for civil engineering-related  |
|       | Environment plan, Environmental system, Environment conservation, Water serve and drainage systems, Waste, Water environment, Atmospheric circulation, Noise and vibration, Environment ecology, Environmental monitoring, etc.        |
| 23010 | Building structures and materials-related  |
|       | Load theory, Structural analysis, Structural design, Structures, Earthquake resistant design, Foundation, Geotechnics, Structural material, Maintenance, Building construction method, etc.  |
| 23020 | Architectural environment and building equipment-related   |
|       | Sound environment, Vibration environment, Light environment, Heat environment, Air environment, Environmental psychology/physiology, Building equipment, Fire engineering, Urban environment, Environment design, etc.                 |
| 23030 | Architectural planning and city planning-related   |
|       | Planning theory, Design theory, Housing theory, Buildings, Urban/regional planning, Administration, Building economics, Production management, Disaster prevention planning, Landscape, etc.   |
| 23040 | Architectural history and design-related   |
|       | Architectural history, Urban history, Architectural theory, Design, Landscape, Preservation, Renovation, etc.  |
| 90010 | Design-related   |
|       | Information design, Environmental design, Industrial design, Spatial design, Design history, Theory of design, Design standard, Design support, Evaluation of design, Design education, etc.   |
| 25010 | Social systems engineering-related   |
|       | Social systems, Industrial engineering, Operations research, Industrial management, Reliability engineering, Policy science, Regulatory science, Quality control, etc.   |
| 25020 | Safety engineering-related   |
|       | Safety engineering, Safety system, Risk engineering, Risk management, Work safety, Industrial safety, Product safety, Safety information, Human engineering, Liability engineering, etc.   |
| 25030 | Disaster prevention engineering-related  |
|       | Disaster prediction, Hazard map, Building prevention against disaster, Lifeline prevention against disaster, Regional disaster prevention planning, Risk evaluation of disaster, Disaster prevention policy, Disaster resilience, etc. |

## Document Review Section 54: Materials engineering, chemical engineering, nano/micro science, and related fields

| Basic Section | Examples of related research content   |
|---------------|--|
| 26010         | Metallic material properties-related   |
|               | Electric and magnetic properties, Metastable states, Diffusion, Phase transformation, Phase diagram, Lattice defect, Mechanical properties, Thermal and optical properties, Materials computational science, Microstructure analysis, etc. |
| 26020         | Inorganic materials and properties-related   |
|               | Functional ceramics, Glass, Engineering ceramics, Carbon-based materials, Crystal structure analysis, Microstructure, Electric properties, Mechanical properties, Physical and chemical properties, Grain boundary, etc.                   |
| 26030         | Composite materials and interfaces-related   |
|               | Functional composite materials, Structural composite materials, Biocompatible composite materials, Polymer composite, Surface treatment, Bonding and joining, Interface properties, Gradient function, etc.                                |
| 26040         | Structural materials and functional materials-related  |
|               | Infrastructural materials, Structural materials, Functional materials, Medical welfare materials, Reliability, Sensor materials, Energy materials, Battery materials, Environmental materials, etc.  |
| 26050         | Material processing and microstructure control-related   |
|               | Processing and molding, Molding, Weld joining, Crystal microstructure control, Laser processing, Precision processing, Polishing, Powder metallurgy, Coating, Corrosion and protection, etc.   |

|       |   |
|-------|---|
| 26060 | Metals production and resources production-related  |
|       | Separation and purification, Melting and solidifying, Crystal growth, Casting, Scarce resources substitution, Low environment impact, Recycle, etc.   |
| 27010 | Transport phenomena and unit operations-related   |
|       | Phase equilibrium, Transport properties, Fluid-phase unit operation, Adsorption, Membrane separation, Stir mixing, Powder and particle, Crystallization, Film formation, Supercritical, etc.  |
| 27020 | Chemical reaction and process system engineering-related  |
|       | Reaction operation, Novel reaction process, Reaction mechanism, Reactor design, Materials synthesis process, Microreactor, Process control, Process system design, Process informatics, etc.  |
| 27030 | Catalyst and resource chemical process-related  |
|       | Catalyst preparation, Catalytic function, Energy conversion process, Energy technology, Resources effective utilization technology, Catalytic material, Active site analysis, etc.  |
| 27040 | Biofunction and bioprocess engineering-related  |
|       | Biocatalyst engineering, Biofunction engineering, Food engineering, Medicochemical engineering, Bioproduction process, Bioreactor, Bioseparation, Biosensor, Biorefinery, etc.  |
| 28010 | Nanometer-scale chemistry-related   |
|       | Nanoparticle chemistry, Mesoscopic chemistry, Nanostructure control, Self-assembly, Nanocarbons, Molecular devices, Nanointerface function, Nanospace function, etc.  |
| 28020 | Nanostructural physics-related  |
|       | Physics in nanoscale materials and structures, Nanoprobes, Quantum dots, Quantum devices, Electron devices, Spin devices, Nano optical device, Nanotribology, Nanocarbon physics, etc.  |
| 28030 | Nanomaterials-related   |
|       | Creation of nanomaterials, Analysis of nanomaterials, Nanosurfaces and nanointerfaces, Functional nanomaterials, Nanoparticles, Carbon nanomaterials, Two-dimensional materials, Nanocrystalline materials, Nanocomposites, Nanofabrication process, etc. |
| 28040 | Nanobioscience-related  |
|       | Biomolecular devices, Molecular manipulation, Molecular imaging, Nanomeasurements, Nanosynthesis, Single molecule science, Nano-bio interfaces, Biomolecular array, Genome engineering, etc.  |
| 28050 | Nano/micro-systems-related  |
|       | MEMS, NEMS, BioMEMS, Nano/micro-fabrication, Nano/micro-chemical systems, Nano/micro-biosystems, Nano/micro-mechanics, Nano/micro-sensors, etc.   |

## Document Review Section 90 : Biomedical engineering and related fields

| Basic Section | Examples of related research content  |
|---------------|---|
| 90110         | Biomedical engineering-related  |
|               | Medical imaging, Medical modeling, Biological simulation, Biometrics, Artificial organs, Tissue engineering, Biophysical properties, Biocontrol, Biomechanics, Nanobio systems, etc.  |
| 90120         | Biomaterials-related  |
|               | Biofunctional materials, Tissue engineering materials, Biocompatible materials, Nanobio materials, Drug delivery systems, Stimuli-sensitive materials, Genetic engineering material, etc.   |
| 90130         | Medical systems-related   |
|               | Medical ultrasound system, Diagnostic imaging system, Laboratory diagnosis systems, Minimally invasive treatment systems, Remote diagnosis and treatment systems, Organ preservation systems, Medical information systems, Computer-assisted surgery, Medical robot, etc. |

|  |       |  |
|--|-------|--|
| (Panel Review Section: Engineering sciences) | 90140 | Medical technology assessment-related  |
|  |       | Regulatory science, Safety evaluation, Clinical study, Medical technology ethics, Medical devices, etc.  |
|  | 90150 | Medical assistive technology-related   |
|  |       | Healthcare and rehabilitation engineering, Life assist technology, Care support technology, Accessibility design, Universal design, Rehabilitation and nursing robot, Assist device for artificial internal organ, Rehabilitation devices, Nursing science and engineering, etc. |

Panel Review Section: Informatics

Document Review Section 61 : Information science, computer engineering, applied informatics, and related fields

| Basic Section | Examples of related research content  |
|---------------|---|
| 60010         | Theory of informatics-related   |
|               | Discrete structure, Mathematical logic, Theory of computation, Mathematical theory of programs, Computational complexity theory, Algorithm theory, Information theory, Coding theory, Theory of cryptography, Learning theory, etc.       |
| 60020         | Mathematical informatics-related  |
|               | Optimization theory, Mathematical systems theory, System control theory, System analysis, System methodology, System modeling, System simulation, Combinatorial optimization, Queueing theory, Mathematical finance, etc.                 |
| 60030         | Statistical science-related   |
|               | Statistics, Data science, Modeling, Statistical inference, Multivariate analysis, Time series analysis, Statistical quality control, Applied statistics, etc.   |
| 60040         | Computer system-related   |
|               | Computer architecture, Circuit and system, LSI design, LSI testing, Reconfigurable system, Dependable architecture, Low power technology, Hardware/software codesign, Embedded system, etc.   |
| 60050         | Software-related  |
|               | Programming language, Programming methodology, Operating system, Parallel and distributed computing, Software engineering, Virtualization technology, Cloud computing, Software dependability, Software security, etc.                    |
| 60060         | Information network-related   |
|               | Network architecture, Network protocol, Internet, Mobile network, Pervasive computing, Sensor network, IoT, Traffic engineering, Network management, Service platform technology, etc.  |
| 60070         | Information security-related  |
|               | Cryptography, Tamper resistance technology, Authentication, Biometrics, Access control, Malware countermeasure, Countermeasures against cyber attacks, Privacy protection, Digital forensics, Security evaluation and authorization, etc. |
| 60080         | Database-related  |
|               | Data model, Database system, Multimedia database, Information retrieval, Content management, Metadata, Big data, Geographic information system, etc.  |
| 60090         | High performance computing-related  |
|               | Parallel processing, Distributed processing, Cloud computing, Numerical analysis, Visualization, Computer graphics, High performance computing application, etc.  |
| 60100         | Computational science-related   |
|               | Mathematical engineering, Computational mechanics, Numerical simulation, Multi-scale modeling, Large-scale computing, Massively parallel computing, Numerical computing methods, Advanced algorithms, etc.                                |
| 62010         | Life, health and medical informatics-related  |
|               | Bioinformatics, Life informatics, Biological information, Neuroinformatics, Neural information processing, Molecular computing, DNA computing, Medical information, Health information, Medical image, etc.                               |

|       |  |
|-------|--|
| 62020 | Web informatics and service informatics-related  |
|       | Web system, Semantic web, Web mining, Social network analysis, Service engineering, Educational service, Medical service, Welfare service, Social service, Information culture, etc.                           |
| 62030 | Learning support system-related  |
|       | Media literacy, Learning media, Social media, Learning content, Learning management, Learning support, Remote learning, e-Learning, etc.   |
| 62040 | Entertainment and game informatics-related   |
|       | Music information processing, 3D content, Animation, Game programming, Network entertainment, Media art, Digital museum, Experience design, etc.   |
| 90020 | Library and information science, humanistic and social informatics-related   |
|       | Library science, Information services, Information organizing, Information retrieval, Bibliometrics, Information resources, Information ethics, Digital humanities, Social Informatics, Digital archives, etc. |

## Document Review Section 62 : Human informatics and related fields

| Basic Section | Examples of related research content  |
|---------------|---|
| 61010         | Perceptual information processing-related   |
|               | Pattern recognition, Image processing, Computer vision, Visual media processing, Acoustic media processing, Media editing, Media database, Sensing, Sensor fusion, etc.   |
| 61020         | Human interface and interaction-related   |
|               | Human interface, Multi-modal interface, Human-computer interaction, Computer supported cooperative work, Virtual reality, Augmented reality, Realistic communication, Wearable device, Usability, Ergonomics, etc.    |
| 61030         | Intelligent informatics-related   |
|               | Search, Inference, Machine learning, Knowledge acquisition, Intelligent system, Intelligent information processing, Natural language processing, Data mining, Ontology, Agent system, etc.                            |
| 61040         | Soft computing-related  |
|               | Neural network, Evolutionary computation, Fuzzy theory, Chaos, Complex systems, Probabilistic information processing, etc.  |
| 61050         | Intelligent robotics-related  |
|               | Intelligent robot, Behavior and environment recognition, Planning, Sensory behavior system, Autonomous system, Digital human, Real world information processing, Physical agents, Intelligent space, etc.             |
| 61060         | Kansei informatics-related  |
|               | Kansei design, Kansei cognitive science, Kansei psychology, Kansei robotics, Kansei measurement evaluation, Kansei interface, Kansei physiology, Kansei material science, Kansei pedagogy, Kansei brain science, etc. |
| 90010         | Design-related  |
|               | Information design, Environmental design, Industrial design, Spatial design, Design history, Theory of design, Design standard, Design support, Evaluation of design, Design education, etc.                          |
| 90030         | Cognitive science-related   |
|               | Cognitive science in general, Cognitive models, Kansei, Human factors, Cognitive and brain science, Comparative cognition, Cognitive linguistics, Cognitive engineering, etc.   |

## Panel Review Section: Biological sciences

## Document Review Section 71 : Biology at molecular to cellular levels, and related fields

| Basic Section | Examples of related research content  |
|---------------|---|
| 43010         | Molecular biology-related   |
|               | Chromosome function, Chromatin, Epigenetics, Genome maintenance, Genome transmission, Chromosome re-organization, Gene expression, Non-coding RNA, Regulation of protein function, Molecular genetics, Regulation of RNA function, etc. |

|       |  |
|-------|--|
| 43020 | Structural biochemistry-related  |
|       | Proteins, Nucleic acids, Lipids, Carbohydrates, Biological membrane, Molecular recognition, Denaturation, Three-dimensional structural analysis, Three-dimensional structural prediction, Molecular dynamics, etc. |
| 43030 | Functional biochemistry-related  |
|       | Enzymes, Sugar chain, Bioenergy conversion, Biological trace elements, Physiologically active substances, Cell signaling, Membrane transport, Proteolysis, Molecular recognition, Organelle, etc.                  |
| 43040 | Biophysics-related   |
|       | Structure biology, Physical property of biomolecules, Biomembrane, Photobiology, Molecular motor, Biometrics, Bioimaging, Systems biology, Synthetic biology, Theoretical biology, etc.                            |
| 43050 | Genome biology-related   |
|       | Genome organization, Genome function, Genome diversity, Molecular evolution of genome, Genome repair/maintenance, Trans-omics, Epigenome, Gene resource, Genome dynamics, etc.                                     |
| 43060 | System genome science-related  |
|       | Network analyses, Synthetic biology, Biological databases, Bioinformatics, Genome analysis technology, Genome biotechnology, etc.  |

## Document Review Section 72 : Biology at cellular to organismal levels, and related fields

| Basic Section | Examples of related research content   |
|---------------|--|
| 44010         | Cell biology-related   |
|               | Cytoskeleton, Proteolysis, Organelle, Nuclear structure and function, Extracellular matrix, Signal transduction, Cell cycle, Cell motility, Cell-cell interaction, Cellular genetics, etc.               |
| 44020         | Developmental biology-related  |
|               | Cell differentiation, Stem cells, Regeneration, Germ layer formation, Morphogenesis, Organogenesis, Fertilization, Germ cells, Developmental genetics, Evolution and development, etc.                   |
| 44030         | Plant molecular biology and physiology-related   |
|               | Photosynthesis, Growth physiology, Plant development, Organelle, Cell wall, Responses to environment, Plant-microbe interaction, Metabolism, Plant molecular function, etc.                              |
| 44040         | Morphology and anatomical structure-related  |
|               | Morphology, Comparative morphology, Morphological modeling, Ultrastructure, Morphological image analysis, Tissue organization, Microscopic technology, Imaging, etc.                                     |
| 44050         | Animal physiological chemistry, physiology and behavioral biology-related  |
|               | Metabolic physiology, Neurophysiology, Neuroethology, Behavioral physiology, Animal physiological chemistry, Chronobiology, Comparative physiology, Comparative endocrinology, Behavioral genetics, etc. |

## Document Review Section 73 : Biology at organismal to population levels and anthropology, and related fields

| Basic Section | Examples of related research content   |
|---------------|--|
| 45010         | Genetics-related   |
|               | Molecular genetics, Cellular genetics, Developmental genetics, Behavioral genetics, Population genetics, Quantitative trait, Population genomics, Genome-wide association study, Genetic diversity, Epigenome diversity, etc.            |
| 45020         | Evolutionary biology-related   |
|               | Molecular evolution, Evolutionary genetics, Phenotypic evolution, Evolutionary developmental biology, Evolution of ecological traits, Evolution of behaviors, Experimental evolution, Coevolution, Speciation, Evolutionary theory, etc. |
| 45030         | Biodiversity and systematics-related   |
|               | Taxonomic characters, Taxon, Classification system, Molecular phylogeny, Phyletic evolution, Speciation, Natural history, Biogeography, Rare species conservation, Biodiversity, etc.  |



(Panel Review Section: Biological sciences)

|       |   |
|-------|---|
| 45040 | Ecology and environment-related   |
|       | Chemical ecology, Molecular ecology, Physiological ecology, Evolutionary ecology, Behavioral ecology, Population ecology, Community ecology, Conservation ecology, Biological interactions, Material cycles in ecosystems, etc.     |
| 45050 | Physical anthropology-related   |
|       | Morphology and function, Bioarchaeology, Biological mechanism, Genome, Evolutionary genetics, Behavior, Ecology, Comparative cognition, Primates, Growth and aging, etc.  |
| 45060 | Applied anthropology-related  |
|       | Physiological anthropology, Ergonomics, Forensic anthropology, Medical anthropology, Physiological polymorphisms, Environmental adaptability, Somatic and physiological function, Anthropometry and bioengineering, Lifestyle, etc. |

Document Review Section 74: Neuroscience and related fields

| Basic Section | Examples of related research content  |
|---------------|---|
| 46010         | Neuroscience-general-related  |
|               | Neurochemistry, Neuron, Glia, Genome, Epigenetics, Neurobiology, Information processing, Synapse, Neurogenesis, etc.  |
| 46020         | Anatomy and histopathology of nervous system-related  |
|               | Neural development, Anatomy of nervous system, Neural network structure, Neuropathology, etc.   |
| 46030         | Function of nervous system-related  |
|               | Neurophysiology, Neuropharmacology, Neurotransmission, Neuroinformatics, Behavioral neuroscience, Neural system physiology, Cerebral blood flow, Autonomic nervous system, etc. |

Panel Review Section: Agriculture/Environmental sciences

Document Review Section 81 : Agricultural chemistry and related fields

| Basic Section | Examples of related research content   |
|---------------|--|
| 38010         | Plant nutrition and soil science-related   |
|               | Plant metabolism and physiology, Nutritional elements in plants, Soil classification, Soil physical chemistry, Soil organisms, etc.  |
| 38020         | Applied microbiology-related   |
|               | Microbial genetics/breeding, Microbial function, Microbial metabolism and physiology, Microbial applications, Control of microbes, Microbial ecology, Production of useful materials, etc.         |
| 38030         | Applied biochemistry-related   |
|               | Cellular biochemistry, Applied biochemistry, Structural biology, Regulation of bioactivity, Metabolism and physiology, Cellular function, Molecular function, Production of useful materials, etc. |
| 38040         | Bioorganic chemistry-related   |
|               | Bioactive substances, Signal molecules, Natural products chemistry, Biosynthesis, Structure-activity relationship, Synthetic organic chemistry, Chemical biology, etc.                             |
| 38050         | Food sciences-related  |
|               | Food function, Food chemistry, Nutritional chemistry, Food analysis, Food engineering, Food safety, Functional food, Nutritional epidemiology, Clinical nutrition, etc.                            |
| 38060         | Applied molecular and cellular biology-related   |
|               | Molecular cell biology, Cellular bioengineering, Molecular engineering, Gene expression control, Cell-cell/intermolecular interactions, Cellular function, Production of useful materials, etc.    |

| Document Review Section 82: Agricultural and environmental biology, agricultural economics and rural sociology, agricultural engineering, and related fields |  |
|--|--|
| Basic Section  | Examples of related research content   |
| 39010  | Science in plant genetics and breeding-related   |
|  | Genetic resources, Breeding theories, Genomic breeding, Plants with novel traits, Quality components, Stress tolerance, Yielding ability, Reproduction and multiplication, Growth physiology, Development, etc.  |
| 39020  | Crop production science-related  |
|  | Field crops, Crop yield, Crop product quality, Crop morphology, Growth prediction, Crop physiology, Field management, Low-cost cultivation techniques, Environmentally friendly agriculture, Field ecosystem, etc.   |
| 39030  | Horticultural science-related  |
|  | Plant growth, flowering, and fruit development, Nursery plant propagation and production, Crop production systems, Cultivation techniques, Protected horticulture, Controlled environment systems, Breeding and development of new cultivars, Quality of horticultural products, Postharvest physiology and management, Socio-horticulture, etc. |
| 39040  | Plant protection science-related   |
|  | Plant pathology, Clinical plant science, Agricultural insect pest, Natural enemy, Weed, Agricultural chemicals, Integrated pest management, etc.   |
| 39050  | Insect science-related   |
|  | Sericulture insect technology, Insect genetics, Insect pathology, Insect physiology and biochemistry, Insect ecology, Chemical ecology, Systematics, Symbiosis and parasitism, Social insects, Medical entomology, etc.  |
| 39060  | Conservation of biological resources-related   |
|  | Conservation biology, Biodiversity conservation, Conservation of phylogenetic diversity, Genetic resources conservation, Ecosystem conservation, Conservation of microorganisms, Impacts of non-native species, etc.   |
| 39070  | Landscape science-related  |
|  | Landscape architecture, Parks and open space planning, Landscape planning, Cultural landscape, Nature conservation, Landscape ecology, Parks and open space management, Parks, Environmental greening, Participatory community design, etc.  |
| 41010  | Agricultural and food economics-related  |
|  | Food economy, Agricultural production economy, Agricultural policy, Food system, Food marketing, International agricultural development, Trade of agricultural commodities and livestock products, Rural resources and environment, etc.   |
| 41020  | Rural sociology and agricultural structure-related   |
|  | Farm organization, Farm management, Agricultural structure, Agricultural market, Agricultural history, Rural society, Rural life, Agricultural cooperative, etc.   |
| 41030  | Rural environmental engineering and planning-related   |
|  | Irrigation and drainage, Reclamation and conservation of agricultural land, Rural planning, Rural environment, Circulation of resources and energy, Disaster prevention in rural area, Stock management of agricultural infrastructures, Hydrodynamics and hydrology, Soil physics, Design and construction materials, etc.                      |
| 41040  | Agricultural environmental engineering and agricultural information engineering-related  |
|  | Agricultural production facilities, Bioproduction machinery, Environmental control, Agricultural meteorology and micrometeorology, Agricultural information, Greenhouse horticulture, Plant factory, Postharvest and supply chain, Nondestructive measurement, Remote sensing and geographic information system, etc.                            |
| 41050  | Environmental agriculture-related  |
|  | Biomass, Environmental manipulation, Biodiversity, Environmental analysis, Ecosystem services, Resources circulation system, Low-carbon societies, Life-cycle assessment, Environmental friendly agriculture, Watershed management, etc.   |

| Document Review Section 83: Forestry and forest products science, applied aquatic science, and related fields             |  |
|---|--|
| Basic Section   | Examples of related research content   |
| 40010   | Forest science-related   |
|   | Forest ecology, Forest biodiversity, Forest genetics and breeding, Silviculture, Forest protection, Forest environments, Erosion control, Forest utilization, Forest planning, Forest policy, etc.   |
| 40020   | Wood science-related   |
|   | Wood structure, Wood property, Lignocellulose, Trace element, Fungus, Wood processing, Biomass-refinery, Wood based material, Wooden building, Forest products education, etc.   |
| 40030   | Aquatic bioproduction science-related  |
|   | Aquatic environment, Fisheries, Aquatic resource management, Aquatic organisms, Aquatic ecosystem, Aquaculture, Fisheries engineering, Fishing community/fisheries policy, Fisheries economics/management/marketing, Fisheries education, etc. |
| 40040   | Aquatic life science-related   |
|   | Aquatic nutrition, Aquatic pathology, Aquatic genetics/heredity/breeding, Aquatic physiology, Utilization of aquatic organisms and biomass, Aquatic biological chemistry, Aquatic biotechnology, Aquatic food sciences, etc.                   |
| Document Review Section 84: Veterinary medical science, animal science, and related fields                                |  |
| Basic Section   | Examples of related research content   |
| 42010   | Animal production science-related  |
|   | Breeding/genetics, Reproduction, Nutrition/feeding, Anatomy/physiology, Product, Environment, Behavior, Therapy, Grassland, Grazing, etc.  |
| 42020   | Veterinary medical science-related   |
|   | Basic veterinary science, Pathological veterinary science, Applied veterinary science, Clinical veterinary science, Animal nursing, Animal welfare, Wildlife, etc.   |
| 42030   | Animal life science-related  |
|   | Homeostasis, Cellular function, Biological defense, Integrated genetics, Development/differentiation, Biotechnology, etc.  |
| 42040   | Laboratory animal science-related  |
|   | Genetic engineering, Developmental engineering, Animal models of disease, Facility management, Laboratory animal welfare, Laboratory animal-related technology, Bioresource, etc.  |
| Document Review Section 85: Environmental analyses and evaluation, environmental conservation measure, and related fields |  |
| Basic Section   | Examples of related research content   |
| 63010   | Environmental dynamic analysis-related   |
|   | Global warming, Environmental change, Water and material cycle, Ocean, Land, Polar regions, Environmental measurements, Environmental model, Environmental information, Remote sensing, etc.   |
| 63020   | Radiation influence-related  |
|   | Radiation, Measurement, Control, Repair, Biological effects, Risk, etc.  |
| 63030   | Chemical substance influence on environment-related  |
|   | Toxicology, Toxic substance to human, Trace chemical substance, Endocrine disruptor, Repair, etc.  |
| 63040   | Environmental impact assessment-related  |
|   | Atmosphere, Hydrosphere, Terrestrial impact, Impact assessment on human health, Social and economic impacts, Impact assessment on the future generation, Environmental impact assessment, Assessment methods, Monitoring, Simulation, etc.     |

(Panel Review Section: Agriculture/Environmental sciences)

|       |   |
|-------|---|
| 64010 | Environmental load and risk assessment-related  |
|       | Environmental analysis, Environmental load analysis, Environmental monitoring, Pollution dynamics assessment, Evaluation of radioactive substances dynamics, Environmental modeling, Exposure assessment, Toxicity evaluation, Environmental assessment, Chemical substance management, etc.                  |
| 64020 | Environmental load reduction and remediation-related  |
|       | Removal of contamination, Treatment of waste material, Control of contamination source, Disposal of waste material, Environmental load reduction, Remediation measure of contamination, Noise and vibration reduction, Countermeasure of ground settlement, Bioremediation, Radioactive decontamination, etc. |
| 64030 | Environmental materials and recycle technology-related  |
|       | Recycle materials, Valuable materials recovery, Separation, refining and purification, Environment-conscious design, Recycle chemistry, Green production, Zero emission, Resource circulation, Renewable energy, Biomass utilization, etc.  |
| 64040 | Social-ecological systems-related   |
|       | Biodiversity, Conservation biology, Natural capital, Impact of climate change, Impact analysis on ecosystem, Ecosystem management, Ecosystem restoration, Ecosystem services, Natural tourism resources, Regional environmental planning, etc.  |
| 64050 | Sound material-cycle social systems-related   |
|       | Sound material-cycle systems, Material and energy budget analysis, Low carbon society, Unused energy, Regional revitalization, Water use system, Industrial symbiosis, Life cycle assessment (LCA), Integrated environmental management, 3R (reduction, reuse, recycle) social systems, etc.                  |
| 64060 | Environmental policy and social systems-related   |
|       | Environmental philosophy and ethics, Environmental laws, Environmental economics, Environmental information, Environmental education, Environmental activities, Environmental management and governance, Social and public system, Consensus forming, Sustainable development, etc.                           |

Panel Review Section: Medicine dentistry and pharmacy

Document Review Section 91 : Pharmaceutical sciences and related fields

| Basic Section | Examples of related research content  |
|---------------|---|
| 47010         | Pharmaceutical chemistry and drug development sciences-related  |
|               | Inorganic chemistry, Organic chemistry, Medicinal chemistry, Medicinal molecular design, Drug discovery, Bio-related materials, Chemical biology, etc.                                  |
| 47020         | Pharmaceutical analytical chemistry and physicochemistry-related  |
|               | Environmental analysis, Bioanalysis, Physicochemistry, Biophysics, Structural biology, Radiochemistry, Bioimaging, Drug formulation design, Computer science, Information science, etc. |
| 47030         | Pharmaceutical hygiene and biochemistry-related   |
|               | Environmental hygiene, Healthful nutrition, Disease prevention, Toxicology, Drug metabolism, Host defense, Molecular biology, Cell biology, Biochemistry, etc.                          |
| 47040         | Pharmacology-related  |
|               | Pharmacology, Pharmacogenomics, Applied pharmacology, Signal transduction, Drug interactions, Drug response, Pharmacotherapy, Pharmacotoxicology, etc.                                  |
| 47050         | Environmental and natural pharmaceutical resources-related  |
|               | Environmental resource science, Natural products chemistry, Bioactive natural compounds, Medicinal resources, Medicinal foods, Pharmaceutical microbiology, etc.                        |
| 47060         | Clinical pharmacy-related   |
|               | Pharmacokinetics, Medical informatics, Social pharmacy, Clinical pharmacy, Pharmaceutics, Regulatory science, Education for the pharmacist, etc.  |

| Document Review Section 92: Biomedical structure and function and related fields |   |
|--|---|
| Basic Section  | Examples of related research content  |
| 48010  | Anatomy-related   |
|  | Macroscopic anatomy, Histology, Embryology, etc.  |
| 48020  | Physiology-related  |
|  | General physiology, Pathophysiology, Comparative physiology, Environmental physiology, etc.   |
| 48030  | Pharmacology-related  |
|  | Genomic pharmacology, Molecular and cellular pharmacology, Pathological pharmacology, Behavioral pharmacology, Pharmacology for drug discovery, Clinical pharmacology, etc.                   |
| 48040  | Medical biochemistry-related  |
|  | Biofunctional molecular and medical biochemistry, Genome medical sciences, Human genetics, Disease model, etc.  |
| Document Review Section 93: Pathology, infection/immunology, and related fields  |   |
| Basic Section  | Examples of related research content  |
| 49010  | Pathological biochemistry-related   |
|  | Molecular pathology, Metabolic disorders, Molecular diagnosis, etc.   |
| 49020  | Human pathology-related   |
|  | Molecular pathology, Cyto- and histo-pathology, Diagnostic pathology, etc.  |
| 49030  | Experimental pathology-related  |
|  | Disease models, Pathological regulation, Tissue regeneration, etc.  |
| 49040  | Parasitology-related  |
|  | Parasite, Vector organism, Parasite pathogenicity, Epidemiology of parasites, Control of parasite infections, etc.  |
| 49050  | Bacteriology-related  |
|  | Bacterium, Fungus, Antimicrobial resistance, Bacterial pathogenicity, Epidemiology of bacteria, Control of bacterial infections, etc.   |
| 49060  | Virology-related  |
|  | Virus, Prion, Viral pathogenicity, Epidemiology of viruses, Control of viral infections, etc.   |
| 49070  | Immunology-related  |
|  | Immune system, Immune response, Inflammation, Immune-related disorder, Immune regulation, etc.  |
| Document Review Section 94: Oncology, brain sciences, and related fields         |   |
| Basic Section  | Examples of related research content  |
| 50010  | Tumor biology-related   |
|  | Cancer and gene, Tumor development, Invasion, Metastasis, Cancer microenvironment, Cancer and signal transduction, Characteristics of cancer cells, Cancer and immune cells, etc.             |
| 50020  | Tumor diagnostics and therapeutics-related  |
|  | Genome analysis, Diagnostic markers, Molecule imaging, Chemotherapy, Nucleic acid therapy, Gene therapy, Immunotherapy, Molecular targeted therapy, Physical therapy, Radiation therapy, etc. |

|  |  |
|--|--|
| 51010  | Basic brain sciences-related   |
|  | Brain-machine interface, Model animal, Computational brain science, Brain information decoding, Control technologies, Brain imaging, Brain biometrics, etc.                |
|  |  |
| 51020  | Cognitive and brain science-related  |
|  | Social behavior, Communication, Emotion, Decision making, Consciousness, Learning, Neuroeconomics, Neuropsychology, etc.   |
| 51030  | Pathophysiologic neuroscience-related  |
|  | Clinical neuroscience, Dolorology, Sensory impairment, Movement disorder, Neurological disorder, Neurogenesis, Neuroimmunology, Cellular degeneration, Disease model, etc. |
| Document Review Section 95: General internal medicine, organ-based internal medicine, internal medicine of the bio-information integration, and related fields |  |
| Basic Section  | Examples of related research content   |
| 52010  | General internal medicine-related  |
|  | Psychosomatic medicine, Laboratory medicine, General practice, Geriatrics, Psychosomatic internal medicine, Oriental medicine, Palliative medicine, etc.                   |
| 52020  | Neurology-related  |
|  | Neurology, Neurofunctional imaging, etc.   |
| 52030  | Psychiatry-related   |
|  | Clinical psychiatry, Biological psychiatry, Forensic mental health, etc.   |
| 52040  | Radiological sciences-related  |
|  | Diagnostic radiology, Therapeutic radiology, Radiation biology, Radiological technology, etc.  |
| 52050  | Embryonic medicine and pediatrics-related  |
|  | Fetal medicine, Neonatal medicine, Pediatrics, etc.  |
| 53010  | Gastroenterology-related   |
|  | Upper digestive tract, Lower digestive tract, Liver, Biliary tract, Pancreas, etc.   |
| 53020  | Cardiology-related   |
|  | Ischemic heart disease, Valvular heart disease, Arrhythmia, Cardiomyopathy, Heart failure, Peripheral arterial disease, Arteriosclerosis, Hypertension, etc.               |
| 53030  | Respiratory medicine-related   |
|  | Respiratory medicine, Asthma, Diffusive lung disease, COPD, Lung cancer, Pulmonary hypertension, etc.  |
| 53040  | Nephrology-related   |
|  | Acute renal failure, Chronic kidney disease, Diabetic nephropathy, Hypertension, Aqueous electrolyte metabolism, Artificial dialysis, etc.                                 |
| 53050  | Dermatology-related  |
|  | Dermatology, Cutaneous immune disease, Cutaneous infection, Cutaneous tumor, etc.  |
| 54010  | Hematology and medical oncology-related  |
|  | Hematological oncology, Medical oncology, Hematological immunology, Anemia, Thrombosis and hemostasis, Chemotherapy, etc.  |
| 54020  | Connective tissue disease and allergy-related  |
|  | Connective tissue disease, Allergy, Clinical immunology, Inflammation, etc.  |

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| 54030  | Infectious disease medicine-related  |
|  | Infection diagnostics, Infection therapeutics, Host defense, International infection science, etc.   |
| 54040  | Metabolism and endocrinology-related   |
|  | Energy balance, Glucose metabolism, Lipid metabolism, Purine metabolism, Bone metabolism, Electrolyte balance, Endocrinology, Neuroendocrinology, Reproductive endocrinology, etc. |
| Document Review Section 96: Surgery of the organs maintaining homeostasis, surgery related to the biological and sensory functions, and related fields |  |
| Basic Section  | Examples of related research content   |
| 55010  | General surgery and pediatric surgery-related  |
|  | Surgical basic principles, Breast surgery, Endocrine surgery, Pediatric surgery, Transplant surgery, Artificial organs science, Regeneration, Operation support, etc.              |
| 55020  | Digestive surgery-related  |
|  | Upper gastrointestinal surgery, Lower gastrointestinal surgery, Hepatic surgery, Biliary surgery, Pancreatic surgery, etc.   |
| 55030  | Cardiovascular surgery-related   |
|  | Coronary artery surgery, Heart valve surgery, Surgery for myocardial disease, Aortic surgery, Vascular surgery, Congenital heart surgery, etc.                                     |
| 55040  | Respiratory surgery-related  |
|  | Lung surgery, Mediastinal surgery, Chest wall surgery, Respiratory tract surgery, etc.   |
| 55050  | Anesthesiology-related   |
|  | Anesthesiology, Perioperative management, Pain management, Resuscitology, Palliative medicine, etc.  |
| 55060  | Emergency medicine-related   |
|  | Intensive care medicine, Emergency resuscitation science, Trauma surgery, Disaster medicine, Disaster medical care, etc.   |
| 56010  | Neurosurgery-related   |
|  | Neurosurgery, Spine and spinal cord diseases, etc.   |
| 56020  | Orthopedics-related  |
|  | Orthopedics, Rehabilitation medicine, Sports medicine, etc.  |
| 56030  | Urology-related  |
|  | Urology, Male genitalia science, etc.  |
| 56040  | Obstetrics and gynecology-related  |
|  | Obstetrics, Reproductive endocrinology, Gynecologic oncology, Female health care medicine, etc.  |
| 56050  | Otorhinolaryngology-related  |
|  | Otorhinolaryngology, Head and neck surgery, etc.   |
| 56060  | Ophthalmology-related  |
|  | Ophthalmology, Ophthalmological optics, etc.   |
| 56070  | Plastic and reconstructive surgery-related   |
|  | Plastic surgery, Reconstructive surgery, Aesthetic plastic surgery, etc.   |

| Document Review Section 97: Oral science and related fields   |   |
|---|---|
| Basic Section   | Examples of related research content  |
| 57010   | Oral biological science-related   |
|   | Oral anatomy, Oral histology and embryology, Oral physiology, Oral biochemistry, Pharmacology for hard tissues, etc.  |
| 57020   | Oral pathobiological science-related  |
|   | Oral infectious diseases, Oral pathology, Oral experimental oncology, Immunity and inflammation, Laboratory medicine, etc.  |
| 57030   | Conservative dentistry-related  |
|   | Operative dentistry, Endodontology, Periodontology, etc.  |
| 57040   | Regenerative dentistry and dental engineering-related   |
|   | Regenerative dentistry, Biomaterial science, Dental materials science, Oral and maxillofacial prosthetics, Oral implantology, etc.  |
| 57050   | Prosthodontics-related  |
|   | Prosthodontics, Oral rehabilitation, Gerodontology, etc.  |
| 57060   | Surgical dentistry-related  |
|   | Oral and maxillofacial surgery, Oral maxillofacial reconstructive surgery, Dental anesthesiology, Psychosomatic medicine dentistry, Dental radiology, etc.  |
| 57070   | Developmental dentistry-related   |
|   | Orthodontics, Pediatric dentistry, etc.   |
| 57080   | Social dentistry-related  |
|   | Dental hygiene, Preventive dentistry, Oral health administration and management, Dental education, Forensic odontology, etc.  |
| Document Review Section 98: Society medicine, nursing, sports sciences, physical education, health sciences, and related fields |   |
| Basic Section   | Examples of related research content  |
| 58010   | Medical management and medical sociology-related  |
|   | Medical management, Medical social science, Ethics for medical science, Ethics for medical care, Biomedical education, History of medical science, Health policy and economics, Clinical trials, Health and medical services administration, Disaster medical science, etc. |
| 58020   | Hygiene and public health-related: including laboratory approach  |
|   | Hygiene, Public health, Epidemiology, Global health, etc.   |
| 58030   | Hygiene and public health-related: excluding laboratory approach  |
|   | Hygiene, Public health, Epidemiology, Global health, etc.   |
| 58040   | Forensics medicine-related  |
|   | Forensic medicine, Forensic pathology, Forensic toxicology, Forensic genetics, Suicide, Abuse, Clinical forensic medicine, Sudden death, etc.   |
| 58050   | Fundamental of nursing-related  |
|   | Fundamental of nursing, Nursing education, Nursing administration, Nursing ethics, Global nursing, etc.   |
| 58060   | Clinical nursing-related  |
|   | Critical care and emergency nursing, Perioperative nursing, Nursing of chronic illness, Oncology nursing, Psychiatric nursing, Palliative care nursing, etc.  |



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| 58070 | Lifelong developmental nursing-related   |
|       | Women's health nursing, Maternal nursing, Midwifery, Family health nursing, Child health nursing, School nursing, etc.   |
| 58080 | Gerontological nursing and community health nursing-related  |
|       | Gerontological nursing, Community health nursing, Public health nursing, Disaster nursing, Home care nursing, etc.   |
| 59010 | Rehabilitation science-related   |
|       | Rehabilitation medicine, Rehabilitation nursing, Rehabilitation medical care, Physiotherapeutics, Occupational therapy, Assistive technology, Speech and language therapy, etc.  |
| 59020 | Sports sciences-related  |
|       | Sports physiology, Sports biochemistry, Sports medicine, Sports sociology, Sports management, Sports psychology, Sports education, Training science, Sports biomechanics, Adapted sports science, etc.                   |
| 59030 | Physical education, and physical and health education-related  |
|       | Growth developmental science, Physical and health education, Physical education in school, Educational physiology, Physical systems science, Higher brain function science, Martial arts theory, Outdoor education, etc. |
| 59040 | Nutrition science and health science-related   |
|       | Nutritional physiology, Nutritional biochemistry, Nutritional education, Clinical nutrition, Functional food, Lifestyle-related disease, Health promotion, Aging, etc.   |

Document Review Section 90 : Biomedical engineering and related fields

| Basic Section | Examples of related research content   |
|---------------|--|
| 90110         | Biomedical engineering-related   |
|               | Medical imaging, Medical modeling, Biological simulation, Biometrics, Artificial organs, Tissue engineering, Biophysical properties, Biocontrol, Biomechanics, Nanobio systems, etc.   |
| 90120         | Biomaterials-related   |
|               | Biofunctional materials, Tissue engineering materials, Biocompatible materials, Nanobio materials, Drug delivery systems, Stimuli-sensitive materials, Genetic engineering material, etc.  |
| 90130         | Medical systems-related  |
|               | Medical ultrasound system, Diagnostic imaging system, Laboratory diagnosis systems, Minimally invasive treatment systems, Remote diagnosis and treatment systems, Organ preservation systems, Medical information systems, Computer-assisted surgery, Medical robot, etc.        |
| 90140         | Medical technology assessment-related  |
|               | Regulatory science, Safety evaluation, Clinical study, Medical technology ethics, Medical devices, etc.  |
| 90150         | Medical assistive technology-related   |
|               | Healthcare and rehabilitation engineering, Life assist technology, Care support technology, Accessibility design, Universal design, Rehabilitation and nursing robot, Assist device for artificial internal organ, Rehabilitation devices, Nursing science and engineering, etc. |