

# International Academic 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 Academic 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 Academic 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.

March, 2025  
Japan Society for the Promotion of Science

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.

(Panel Review Section: Humanities)	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.

(Panel Review Section: Humanities)		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.

(Panel Review Section: Social sciences)		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.

(Panel Review Section: Social sciences)		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.

(Panel Review Section: Social sciences)		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.



(Panel Review Section: Mathematical and physical sciences)	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.		

(Panel Review Section: Chemistry)		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, Supramolecules, 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.

(Panel Review Section: Engineering sciences)	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, Aseismatic 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.

(Panel Review Section: Engineering sciences)	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.

(Panel Review Section: Engineering sciences)	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.	

(Panel Review Section: Informmatics)		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.



(Panel Review Section: Biological sciences)		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, Pharmaceuticals, 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.

(Panel Review Section: Medicine dentistry and pharmacy)		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.

(Panel Review Section: Medicine dentistry and pharmacy)		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.

(Panel Review Section: Medicine dentistry and pharmacy)		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
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.			