Research content	Examples of related research content	Research content(Medium-sized Sections) and Research field corresponding Research content(Basic Sections)	
(Basic Section)	Examples of related research content	Research content (Medium-sized Section)	Research field
	Philosophy and ethics-related		
01010	Philosophy in general, Ethics in general, Western philosophy, Western ethics, Japanese philosophy, Japanese ethics, Applied ethics, etc.	11	Humanities
	Chinese philosophy, Indian philosophy and Buddhist philosophy-related		
01020	Chinese philosophy/thought, Indian philosophy/thought, Buddhist philosophy, Bibliography, Philology, etc.	11	Humanities
	Religious studies-related		
01030	History of religions, Philosophy of religion, Theology, Sociology of religion, Psychology of religion, Anthropology of religion, Studies of religious folklore, Mythology, Bibliography, Philology, etc.	11	Humanities
	History of thought-related		
01040	History of thought in general, History of Western thought, History of Eastern thought, History of Japanese thought, History of Islamic thought, etc.	11	Humanities
	Aesthetics and art studies-related		
01050	Philosophy of art, Aesthetics, Music theory, Theatrical theory, Miscellaneous art studies, etc.	11	Humanities
	History of arts-related		
01060	Japanese art, Eastern art, Western art, Contemporary art, Craft, Design, Architecture, Costume, Photography, etc.	11	Humanities
	Theory of art practice-related		
01070	Art expression, Arts management, Art policy, Art production, etc.	11	Humanities
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.	11	Humanities
	Japanese literature-related		
02010	Japanese literature in general, Ancient literature, Medieval literature, Chinese classics in Japan, Bibliography, Philology, Premodern literature, Modern literature, Contemporary literature, Literary theory, etc.	12	Humanities
	Chinese literature-related		
02020	Chinese literature, Bibliography, Philology, Literary theory, etc.	12	Humanities
	English literature and literature in the English language-related		
02030	English literature, American literature, Literature in the English language, Literary theory, Bibliography, Philology, etc.	12	Humanities
	European literature-related		
02040	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.	12	Humanities
	Literature in general-related		
02050	Literature in other languages and areas, Literary theory, Comparative literature, Bibliography, Philology, Literature education, etc.	12	Humanities
	Linguistics-related		
02060	Phonetics/phonology, Semantics/pragmatics, Morphosyntax, Sociolinguistics, Contrastive linguistics, Psycholinguistics, Neurolinguistics, Historical linguistics, Corpus linguistics, Endangered and minority languages, etc.	12	Humanities

Research content (Basic Section)	Examples of related research content	Research content(Medium-sized Sections) and Research field corresponding Research content(Basic Sections) Research content	
		(Medium-sized Section)	Research field
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.	12	Humanities
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.	12	Humanities
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.	12, 25	Humanities, Social sciences
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.	12, 25	Humanities, Social sciences
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.	13	Humanities
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.	13	Humanities
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.	13	Humanities
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.	13	Humanities
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.	13	Humanities

Research content	Examples of related research content	Section Research field	Research content(Medium-sized Sections) and Research field corresponding Research content(Basic Sections)	
(Basic Section)		Research content (Medium-sized Section)	Research field	
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.	13	Humanities	
03070	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.	13	Humanities	
04010	Geography-related Geography in general, Land use, Landscape, Environmental system, Geomorphology, Climatology, Hydrology, Cartography, Geographic information system, Regional planning, etc.	14	Humanities	
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.	14	Humanities	
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.	14	Humanities	
80010	Area studies-related Area studies in general, Cross-regional comparative studies, Aid, Social development, Interregional exchange, Environment, Transnationalism, Globalization, Refugees, Conflict, etc.	14, 22	Humanities, Social sciences	
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.	14, 23, 24	Humanities, Social sciences	
80030	Gender studies-related Gender studies in general, Feminism, Men's studies, Sexuality, Queer studies, Labor, Violence, Prostitution, Reproductive technology, Gender equality, etc.	14, 22, 24	Humanities, Social sciences	
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.	21	Social sciences	
05020	Public law-related Constitutional law, Administrative law, Tax law, etc.	21	Social sciences	
05030	International law-related Public international law, Private international law, International human rights law, International economic law, EU law, etc.	21	Social sciences	
05040	Social law-related Labor law, Economic law, Social security law, Education law, etc.	21	Social sciences	
05050	Criminal law-related Criminal law, Criminal procedure, Criminology, Criminal justice policy, Juvenile law, Law and psychology, etc.	21	Social sciences	

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		Research content(Medium-sized Sections) and Research field corresponding Research content(Basic Sections)	
Research content (Basic Section)			
	Examples of related research content		
(Dasic Section)		Research content (Medium-sized Section)	Research field
	Civil law-related		
05060	Civil law, Commercial law, Civil procedure, Insolvency law, Alternative dispute resolution, etc.	21	Social sciences
	New fields of law-related		
05070	Environmental law, Medical law, Information law, Consumer law, Intellectual property law, Law and gender, Legal profession, etc.	21	Social sciences
	Politics-related		
06010	Political theory, History of political thought, Political history, Political process, Political participation, Political economy, Public administration, Local government, Comparative politics, Public policy, etc.	22	Social sciences
	International relations-related		
06020	Theory of international relations, International history, Foreign policy, International security, International political economy, Global governance, International cooperation, Peace research, etc.	22	Social sciences
	Economic theory-related		
07010	Microeconomics, Macroeconomics, Game theory, Behavioral economics, Experimental economics, Economic theory, Evolutionary economics, Economic institutions, Economic systems, etc.	23	Social sciences
	Economic doctrines and economic thought-related		
07020	Economic doctrines, Economic thought, Social thought, Economic philosophy, etc.	23	Social sciences
	Economic statistics-related		
07030	Statistical system, Statistical research, Economic statistics, Big data, Econometrics, Financial econometrics, etc.	23	Social sciences
	Economic policy-related		
07040	Economic policy, Industrial organization, International economics, Development economics, Environmental and resource economics, Japanese economy, Regional economy, Urban economics, Transportation economics, Spatial economics, etc.	23	Social sciences
	Public economics and labor economics-related		
07050	Public finance, Public economics, Health economics, Labor economics, Social security, Education economics, Law and economics, Political economy, Demography, etc.	23	Social sciences
	Money and finance-related		
07060	Monetary economics, Finance, International finance, Corporate finance, Financial engineering, Insurance, etc.	23	Social sciences
	Economic history-related		
07070	Economic history, Business history, Industrial history, etc.	23	Social sciences
	Business administration-related		
07080	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.	23	Social sciences

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Research content (Basic Section)	Examples of related research content	Research content(Medium-sized Sections) and Research field corresponding Research content(Basic Sections)	
(Busic Section)		Research content (Medium-sized Section)	Research field
	Commerce-related		
07090	Marketing, Consumer behavior, Distributive sciences, Logistics, Commerce in general, etc.	23	Social sciences
	Accounting-related		
07100	Financial accounting, Management accounting, Auditing, Accounting in general, etc.	23	Social sciences
	Sociology-related Sociology-related		
08010	Sociology in general, Community, Family, Labor, Stratification, Culture, Media, Ethnicity, Social movements, Social research, etc.	24	Social sciences
	Social welfare-related		
	Social work, Social policy, Social welfare history, Child welfare,		
08020	Social welfare for people with disabilities, Social welfare for aging, Community welfare, Poverty, Volunteerism, Social welfare in general, etc.	24	Social sciences
	Family and consumer sciences, and culture and living-related		
08030	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.	24	Social sciences
	Education-related		
09010	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.	25	Social sciences
	Sociology of education-related		
09020	Sociology of education, Socialization, Educational community, Destination and career formation, Class disparities, Gender, Education policy, Globalization and development, etc.	25	Social sciences
	Childhood and nursery/pre-school education-related		
09030	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.	25	Social sciences
	Education on school subjects and primary/secondary education-related		
09040	Education of individual subjects, Lessons of each subject area, Instructional guidance, Teacher education, Special activities, Integrated studies, Moral education, etc.	25	Social sciences
	Tertiary education-related		
09050	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.	25	Social sciences
	Special needs education-related		
09060	Philosophy and history, Inclusion and cohesive society, Instructions and supports, Developmental disabilities, Emotional disturbance, Intellectual disabilities, Language disorders, Physical disabilities, Career education, etc.	25	Social sciences

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Research content	Examples of related research content	Research content(Medium-siz Sections) and Research field correspondin Research content(Basic Section	
(Basic Section)		Research content (Medium-sized Section)	Research field
	Educational technology-related		
09070	Curriculum development, Teaching-learning support systems, Utilization of media, Utilization of ICT, Teacher's education, Information literacy, etc.	25	Social sciences
	Science education-related		
09080	Science education, Science communication, Scientific literacy, Science and society, STEM education, etc.	25	Social sciences
	Social psychology-related		
10010	Social psychology in general, Self, Group, Attitude and behavior, Affection/emotion, Interpersonal relation, Social issues, Culture, etc.	26	Social sciences
	Educational psychology-related		
10020	Educational psychology in general, Development, Family, School, Clinical practice, Personality, Learning, Assessment and evaluation, etc.	26	Social sciences
	Clinical psychology-related		
10030	Clinical psychology in general, Psychological disorder, Assessment, Psychological intervention, Training, Mental health, Crime and delinquency, Community, etc.	26	Social sciences
	Experimental psychology-related	26	
10040	Experimental psychology in general, Sensation, Perception, Attention, Memory, Language, Emotion, Learning, etc.		Social sciences
	Algebra-related		Mathematical
11010	Group theory, Ring theory, Representation theory, Algebraic combinatorics, Number theory, Arithmetic geometry, Algebraic geometry, Algebraic analysis, etc.	31	and physical sciences
	Geometry-related		Mathematical
11020	Differential geometry, Riemannian geometry, Symplectic geometry, Complex geometry, Topology, Differential topology, Low dimensional topology, etc.	31	and physical sciences
	Basic analysis-related		
12010	Functional analysis, Complex analysis, Probability theory, Harmonic analysis, Operator theory, Spectral analysis, Operator algebras, Algebraic analysis, Representation theory, etc.	32	Mathematical and physical sciences
	Mathematical analysis-related		Mathematical
12020	Functional equations, Real analysis, Dynamical system, Variational method, Nonlinear analysis, Applied analysis, etc.	32	and physical sciences
	Basic mathematics-related		Mathematical
12030	Mathematical logic and foundations, Information theory, Discrete mathematics, Computer mathematics, History of mathematics, etc.	32	and physical sciences
	Applied mathematics and statistics-related		Mathematical
12040	Numerical analysis, Mathematical modelling, Optimal control, Game theory, Statistical mathematics, etc.	32	and physical sciences

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Research content (Basic Section)	Examples of related research content	Research content(Medium-sized Sections) and Research field corresponding Research content(Basic Sections)	
(Dasie Section)		Research content (Medium-sized Section)	Research field
	Mathematical physics and fundamental theory of condensed matter physics-related		
13010	Statistical physics, Fundamental theory of condensed matter physics, Mathematical physics, Nonequilibrium nonlinear physics, Fluid dynamics, Computational physics, Quantum information theory, etc.	33	Mathematical and physical sciences
	Semiconductors, optical properties of condensed matter and atomic physics-related		
13020	Semiconductors, Dielectrics, Atoms and molecules, Mesoscopic systems, Crystals, Surfaces and interfaces, Optical properties of condensed matter, Quantum electronics, Quantum information, etc.	33	Mathematical and physical sciences
	Magnetism, superconductivity and strongly correlated systems-related		Mathematical
13030	Magnetism, Strongly correlated electron systems, Superconductivity, Quantum fluids and solids, Molecular solids, etc.	33	and physical sciences
	Biophysics, chemical physics and soft matter physics-related		Mathematical
13040	Physics of biological phenomena, Physics of biological matters, Liquids and glasses, Soft matters, Rheology, etc.	33	and physical sciences
	Fundamental plasma-related		Mathematical
14010	Basic plasmas, Magnetized plasmas, Laser plasmas, Strongly coupled plasmas, Plasma diagnostics, Astrophysical and space plasmas, etc.	34	and physical sciences
	Nuclear fusion-related		Mathematical
14020	Plasma confinement, Plasma control, Plasma heating, Plasma diagnostics, Edge plasma, Plasma wall interaction, Inertial fusion, Fusion material, Fusion system, etc.	34	and physical sciences
	Applied plasma science-related		Mathematical
14030	Plasma processing, Plasma material science, General plasma applications, etc.	34	and physical sciences
	Quantum beam science-related		Mathematical
80040	Accelerators, Beam physics, Radiation detectors, Beam control, Applied quantum beam science, etc.	34, 35	and physical sciences
	Theoretical studies related to particle-, nuclear-, cosmic ray and astro-physics		Mathematical
15010	Particle physics, Nuclear physics, Cosmic-ray physics, Astrophysics, Relativity, Gravity, etc.	35	Mathematical and physical sciences
	Experimental studies related to particle-, nuclear-, cosmic ray and astro-physics		Mathematical
15020	Particle physics, Nuclear physics, Cosmic-ray physics, Astrophysics, Relativity, Gravity, etc.	35	and physical sciences
	Astronomy-related		Mathematical
16010	Theoretical astronomy, Radio astronomy, Optical/infrared astronomy, X-ray/γ-ray astronomy, Astrometry, Solar physics, Exoplanet astronomy, etc.	36	and physical sciences
	Space and planetary sciences-related		Mathematical
17010	Solar-terrestrial physics, Aeronomy, Planetary science, Exoplanetary science, Extraterrestrial material science, etc.	37	and physical sciences
	Atmospheric and hydrospheric sciences-related		Mathematical
17020	Climate system, Atmospheric science, Ocean science, Limnology, Glaciology, Paleoclimatology, etc.	37	and physical sciences
	Human geosciences-related		Mathematical
17030	Geoenvironmental science, Natural disaster science, Geospatial information science, Quaternary research, Earth resources science, etc.	37	and physical sciences

Research content	Examples of related research content	Research content(Medium-sized Sections) and Research field corresponding Research content(Basic Sections)	
(Basic Section)		Research content (Medium-sized Section)	Research field
	Solid earth sciences-related		Mathematical
17040	Solid earth geophysics, Geology, Earth's interior material science, Solid earth geochemistry, etc.	37	and physical sciences
17050	Biogeosciences-related Origin and evolution of life, Extremophile biology, Biogeochemistry, Paleoenvironmental science, Paleontology, etc.	37	Mathematical and physical sciences
	Fundamental physical chemistry-related		
32010	Gas, Liquid, Solid, Nanomaterials, Bio-related materials, Structure and properties, Chemical reactions, Spectroscopy, Theoretical calculation, Data science, etc.	41	Chemistry
	Functional solid state chemistry-related		
32020	Molecular materials, Inorganic compounds, Hybrid compounds, Colloids, Surface/interface, Electrical properties, Optical properties, Magnetic properties, Energy conversion, Catalysis, etc.	41	Chemistry
	Inorganic/coordination chemistry-related		
34010	Coordination chemistry, Organometallic chemistry, Inorganic solid-state chemistry, Bioinorganic chemistry, Solution chemistry, Clusters, Supramolecular complexes, Coordination polymers, Typical elements, Physical properties and functions, etc.	41	Chemistry
	Analytical chemistry-related		
34020	Spectrometric analysis, Advanced measurements, Surface/interface analysis, Separation analysis, Analytical reagents, Radiochemical analysis, Electrochemical analysis, Bioanalysis, New analysis methods, etc.	41	Chemistry
	Green sustainable chemistry and environmental chemistry-related		
34030	Green process, Green catalysts, Recycle, Environmental assessment, Environmentally conscious materials, Reduction of environmental load, Environmental restoration, Resource saving, Geochemistry, Environmental radioactivity, etc.	41	Chemistry
	Inorganic compounds and inorganic materials chemistry-related		
36010	Crystals, Amorphous, Ceramics, Semiconductors, Inorganic device-related materials, Low-dimensional compounds, Porous materials, Nanoparticles, Multicomponent compounds, Hybrid materials, etc.	41	Chemistry
	F		
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.	41	Chemistry
33010	Structural organic chemistry and physical organic chemistry-related Chemistry of organic crystals, Molecular recognition, Supermolecules, Functional organic molecules, Extended π-electron molecules, Organoelement chemistry, Reaction mechanism, Molecular chirality, Theoretical organic chemistry, etc.	42	Chemistry
	Synthetic organic chemistry-related	+	
33020	Development of reactions, Reaction mechanism, Selective reactions, Asymmetric synthesis, Development of catalysts, Biocatalysis, Sustainable organic synthesis, Natural product synthesis, Process chemistry, etc.	42	Chemistry
	Polymer chemistry-related		
35010	Polymer synthesis, Polymer reactions, Functional polymers, Self-assembled polymers, Non-covalent polymers, Chiral polymers, Bio-related polymers, Polymer properties, Polymer structures, Polymer interface, etc.	42	Chemistry

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Research content (Basic Section)	Examples of related research content	Sectio Research field	nt(Medium-sized ns) and corresponding nt(Basic Sections)
		Section)	Research field
	Polymer materials-related	,	
35020	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.	42	Chemistry
	Organic functional materials-related		
35030	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.	42	Chemistry
	Bio-related chemistry		
37010	Bioorganic chemistry, Bioinorganic chemistry, Biological reaction engineering, Biofunctional chemistry, Biofunctional materials, Biotechnology, etc.	42	Chemistry
	Chemistry and chemical methodology of biomolecules-related		
37020	Natural product chemistry, Biologically active compounds, Molecular mechanism of biological activities, Biofunctional molecules, Combinatorial chemistry, Metabolomic analysis, etc.	42	Chemistry
	Chemical biology-related		
37030	In vivo functional expression, Intracellular chemical reactions, Drug discovery science, Chemical library, Structure-activity relationship, Chemical probes, Biomolecular measurements, Molecular imaging, Proteomics, etc.	42	Chemistry
	Mechanics of materials and materials-related		
18010	Structural mechanics, Fatigue, Fracture, Biomaterials, Material design, Material characteristics, Material evaluation, etc.	51	Engineering sciences
	Manufacturing and production engineering-related		
18020	Machining, Non-traditional machining, Ultraprecision machining, Machine tools, Manufacturing systems, Precision metrology, Process planning, etc.	51	Engineering sciences
	Design engineering-related		г
18030	Mechanical design, Product design, Design theory, Design for reliability, Optimal design, Computer-aided design, etc.	51	Engineering sciences
	Machine elements and tribology-related		
18040	Machine elements, Mechanisms, Tribology, Actuators, Micromachines, etc.	51	Engineering sciences
	Nuclear engineering-related		
31010	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.	51	Engineering sciences
	Earth resource engineering, Energy sciences-related		
31020	Resource prospecting, Resource development, Resource cycle, Resource economy, Energy system, Environmental load, Renewable energy, Natural resources and energy policy, etc.	51	Engineering sciences
	Fluid engineering-related		
19010	Fluid machinery, Flow measurement, Computational fluid dynamics, Turbulence, Multiphase flow, Compressible flow, Incompressible flow, etc.	51	Engineering sciences

Research content (Basic Section)	Examples of related research content	Section Research field	nt(Medium-sized ns) and corresponding nt(Basic Sections)
		Section)	Research field
19020	Thermal engineering-related Heat transfer, Convection, Combustion, Thermophysical properties, Refrigeration and air-conditioning, Heat engine, Energy conversion, etc.	51	Engineering sciences
	Mechanics and mechatronics-related		
20010	Kinematics, Kinetics, Vibration, Acoustics, Automation, Biomechanics, Instrument and control applications, Mechatronics applications, etc.	51	Engineering sciences
	Robotics and intelligent system-related		
20020	Robotics, Intelligent system, Human mechanical system, Human interface, Planning, Intelligent spatial system, Virtual reality, Augmented reality, etc.	51	Engineering sciences
	Aerospace engineering-related		
24010	Thermo-fluid dynamics, Structural mechanics, Propulsion, Aerospace craft design, Production engineering, Aircraft system, Aerodynamics, Spacecraft system, Space utilization, etc.	51	Engineering sciences
	Marine engineering-related		
24020	Navigation, Structural mechanics, Structural design, Production technology, Marine propulsion, Marine transport, Marine development, Underwater engineering, Polar engineering, Marine environmental technology, etc.	51	Engineering sciences
	Power engineering-related		
21010	Electrical energy-related, Energy conservation, Power system engineering, Electric machinery, Power electronics, Effective utilization of electric energy, Electromagnetic compatibility, Wireless power transfer, etc.	52	Engineering sciences
	Communication and network engineering-related		г · ·
21020	Information theory, Nonlinear theory, Signal processing, Communication systems, Modulation/demodulation, Antennas, Networks, Multimedia, Cryptography/security, etc.	52	Engineering sciences
	Measurement engineering-related		En sin senin s
21030	Measurement theory, Measuring instruments, Applied wave metrology, Measurement systems, Signal processing, Sensing, etc.	52	Engineering sciences
	Control and system engineering-related		Emainaanina
21040	Control theory, System theory, Control systems, Knowledge-based control systems, System information processing, System control applications, Biosystems engineering, etc.	52	Engineering sciences
	Electric and electronic materials-related		
21050	Semiconductor, Dielectric materials, Magnetic materials, Organic materials, Superconductor, Composite materials, Thin films, Functional materials, Thick films, Fabrication/characterization methods, etc.	52	Engineering sciences
	Electron device and electronic equipment-related		
21060	Electron devices, Circuit design, Optical devices, Spintronic devices, Millimeter wave/terahertz wave, Applied wave devices, Storage devices, Displays, Process technology, Implementation technology, etc.	52	Engineering sciences
	Applied physical properties-related		Destru
29010	Magnetic materials, Superconductors, Dielectrics, Fine particles, Liquid crystals, New functional materials, Molecular electronics, Bioelectronics, Spintronics, etc.	52	Engineering sciences
	Thin film/surface and interfacial physical properties-related		г : :
29020	Thin-film engineering, Surface and interfacial engineering, Surface science, Vacuum, Measurement, Analysis, Nanoscopic technology, Advanced equipment, Electronics application, etc.	52	Engineering sciences

Research content		Research content(Medium-sized Sections) and Research field corresponding	
(Basic Section)	Examples of related research content	Research content (Medium-sized Section)	Research field
	Applied condensed matter physics-related		ъ
29030	Elementary quantities, Standards, Units, Physical quantity measurements and detection, Energy conversion, etc.	52	Engineering sciences
30010	Crystal engineering-related Metal, Semiconductor, Ceramics, Amorphous, Crystal growth, Artificial structures, Device structure, Crystal characterization, Plasma process, etc.	52	Engineering sciences
	Optical engineering and photon science-related		
30020	Optical materials, Optical elements, Optical properties, Optical information processing, Laser, Optical sensing, Optical recording, Opto-electronics, Nonlinear optics, Quantum optics, etc.	52	Engineering sciences
	Civil engineering material, execution and construction management-related		
22010	Concrete, Steel, Composite material, Wood, Pavement material, Repair and reinforce material, Execution, Maintenance, Construction management, etc.	53	Engineering sciences
	Structure engineering and earthquake engineering-related		
22020	Applied mechanics, Structure engineering, Steel structure, Concrete structure, Composite structure, Wind engineering, Earthquake engineering, Aseismatic structure, Earthquake prevention, etc.	53	Engineering sciences
	Geotechnical engineering-related		
22030	Soil mechanics, Foundation engineering, Rock engineering, Engineering Geology, Ground behavior, Geotechnical structures, Geo-disaster prevention, Geo-environment, Tunnel engineering, etc.	53	Engineering sciences
	Hydroengineering-related		
22040	Hydraulics, Environmental hydraulics, Hydrology, River engineering, Water resource engineering, Coastal engineering, Port and harbor engineering, Ocean engineering, etc.	53	Engineering sciences
	Civil engineering plan and transportation engineering-related		
22050	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.	53	Engineering sciences
	Environmental systems for civil engineering-related		
22060	Environment plan, Environmental system, Environment conservation, Water serve and drainage systems, Waste, Water environment, Atmospheric circulation, Noise and vibration, Environment ecology, Environmental monitoring, etc.	53	Engineering sciences
	Social systems engineering-related		
25010	Social systems, Industrial engineering, Operations research, Industrial management, Reliability engineering, Policy science, Regulatory science, Quality control, etc.	53	Engineering sciences
	Safety engineering-related		
25020	Safety engineering, Safety system, Risk engineering, Risk management, Work safety, Industrial safety, Product safety, Safety information, Human engineering, Liability engineering, etc.	53	Engineering sciences
	Disaster prevention engineering-related		
25030	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.	53	Engineering sciences
	Building structures and materials-related		
23010	Load theory, Structural analysis, Structural design, Structures, Earthquake resistant design, Foundation, Geotechnics, Structural material, Maintenance, Building construction method, etc.	53	Engineering sciences

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Research content	Examples of related research content	Research content(Medium-sized Sections) and Research field corresponding Research content(Basic Sections)	
(Basic Section)	Examples of related research content	Research content (Medium-sized Section)	Research field
	Architectural environment and building equipment-related		
23020	Sound environment, Vibration environment, Light environment, Heat environment, Air environment, Environmental psychology/physiology, Building equipment, Fire engineering, Urban environment, Environment design, etc.	53	Engineering sciences
	Architectural planning and city planning-related		
23030	Planning theory, Design theory, Housing theory, Buildings, Urban/regional planning, Administration, Building economics, Production management, Disaster prevention planning, Landscape, etc.	53	Engineering sciences
	Architectural history and design-related		
23040	Architectural history, Urban history, Architectural theory, Design, Landscape, Preservation, Renovation, etc.	53	Engineering sciences
	Metallic material properties-related		
26010	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.	54	Engineering sciences
	Inorganic materials and properties-related		
26020	Functional ceramics, Glass, Engineering ceramics, Carbon-based materials, Crystal structure analysis, Microstructure, Electric properties, Mechanical properties, Physical and chemical properties, Grain boundary, etc.	54	Engineering sciences
	Composite materials and interfaces-related		
26030	Functional composite materials, Structural composite materials, Biocompatible composite materials, Polymer composite, Surface treatment, Bonding and joining, Interface properties, Gradient function, etc.	54	Engineering sciences
	Structural materials and functional materials-related		
26040	Infrastructural materials, Structural materials, Functional materials, Medical welfare materials, Reliability, Sensor materials, Energy materials, Battery materials, Environmental materials, etc.	54	Engineering sciences
	Material processing and microstructure control-related		
26050	Processing and molding, Molding, Weld joining, Crystal microstructure control, Laser processing, Precision processing, Polishing, Powder metallurgy, Coating, Corrosion and protection, etc.	54	Engineering sciences
	Metals production and resources production-related		T
26060	Separation and purification, Melting and solidifying, Crystal growth, Casting, Scarce resources substitution, Low environment impact, Recycle, etc.	54	Engineering sciences
	Transport phenomena and unit operations-related		Б
27010	Phase equilibrium, Transport properties, Fluid-phase unit operation, Adsorption, Membrane separation, Stir mixing, Powder and particle, Crystallization, Film formation, Supercritical, etc.	54	Engineering sciences
	Chemical reaction and process system engineering-related		
27020	Reaction operation, Novel reaction process, Reaction mechanism, Reactor design, Materials synthesis process, Microreactor, Process control, Process system design, Process informatics, etc.	54	Engineering sciences

Research content (Basic Section)	Examples of related research content	Research content(Medium-sized Sections) and Research field corresponding Research content(Basic Sections	
,		Research content (Medium-sized Section)	Research field
	Catalyst and resource chemical process-related		.
27030	Catalyst preparation, Catalytic function, Energy conversion process, Energy technology, Resources effective utilization technology, Catalytic material, Active site analysis, etc.	54	Engineering sciences
	Biofunction and bioprocess engineering-related		Б
27040	Biocatalyst engineering, Biofunction engineering, Food engineering, Medicochemical engineering, Bioproduction process, Bioreactor, Bioseparation, Biosensor, Biorefinery, etc.	54	Engineering sciences
	Nanometer-scale chemistry-related		Б
28010	Nanoparticle chemistry, Mesoscopic chemistry, Nanostructure control, Self-assembly, Nanocarbons, Molecular devices, Nanointerface function, Nanospace function, etc.	54	Engineering sciences
	Nanostructural physics-related		- · ·
28020	Physics in nanoscale materials and structures, Nanoprobes, Quantum dots, Quantum devices, Electron devices, Spin devices, Nano optical device, Nanotribology, Nanocarbon physics, etc.	54	Engineering sciences
	Nanomaterials-related		
28030	Creation of nanomaterials, Analysis of nanomaterials, Nanosurfaces and nanointerfaces, Functional nanomaterials, Nanoparticles, Carbon nanomaterials, Two-dimensional materials, Nanocrystalline materials, Nanocomposites, Nanofabrication process, etc.	54	Engineering sciences
	Nanobioscience-related		
28040	Biomolecular devices, Molecular manipulation, Molecular imaging, Nanomeasurements, Nanosynthesis, Single molecule science, Nano-bio interfaces, Biomolecular array, Genome engineering, etc.	54	Engineering sciences
	Nano/micro-systems-related		
28050	MEMS, NEMS, BioMEMS, Nano/micro-fabrication, Nano/micro-chemical systems, Nano/micro-biosystems, Nano/micro-mechanics, Nano/micro-sensors, etc.	54	Engineering sciences
	Theory of informatics-related		
60010	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.	61	Informatics
	Mathematical informatics-related		
60020	Optimization theory, Mathematical systems theory, System control theory, System analysis, System methodology, System modeling, System simulation, Combinatorial optimization, Queueing theory, Mathematical finance, etc.	61	Informatics
	Statistical science-related		
60030	Statistics, Data science, Modeling, Statistical inference, Multivariate analysis, Time series analysis, Statistical quality control, Applied statistics, etc.	61	Informatics
	Computer system-related		
60040	Computer architecture, Circuit and system, LSI design, LSI testing, Reconfigurable system, Dependable architecture, Low power technology, Hardware/software codesign, Embedded system, etc.	61	Informatics
	Software-related		
60050	Programming language, Programming methodology, Operating system, Parallel and distributed computing, Software engineering, Virtualization technology, Cloud computing, Software dependability, Software security, etc.	61	Informatics

	Key word list		
Research content (Basic Section)	Examples of related research content	Research content(Medium-sized Sections) and Research field corresponding Research content(Basic Sections	
(Dasic Section)		Research content (Medium-sized Section)	Research field
	Information network-related		
60060	Network architecture, Network protocol, Internet, Mobile network, Pervasive computing, Sensor network, IoT, Traffic engineering, Network management, Service platform technology, etc.	61	Informatics
	Information security-related		
60070	Cryptography, Tamper resistance technology, Authentication, Biometrics, Access control, Malware countermeasure, Countermeasures against cyber attacks, Privacy protection, Digital forensics, Security evaluation and authorization, etc.	61	Informatics
	Database-related		
60080	Data model, Database system, Multimedia database, Information retrieval, Content management, Metadata, Big data, Geographic information system, etc.	61	Informatics
	High performance computing-related		
60090	Parallel processing, Distributed processing, Cloud computing, Numerical analysis, Visualization, Computer graphics, High performance computing application, etc.	61	Informatics
	Computational science-related		
60100	Mathematical engineering, Computational mechanics, Numerical simulation, Multi-scale modeling, Large-scale computing, Massively parallel computing, Numerical computing methods, Advanced algorithms, etc.	61	Informatics
	Life, health and medical informatics-related		
62010	Bioinformatics, Life informatics, Biological information, Neuroinformatics, Neural information processing, Molecular computing, DNA computing, Medical information, Health information, Medical image, etc.	61	Informatics
	Web informatics and service informatics-related		
62020	Web system, Semantic web, Web mining, Social network analysis, Service engineering, Educational service, Medical service, Welfare service, Social service, Information culture, etc.	61	Informatics
	Learning support system-related	1	
62030	Media literacy, Learning media, Social media, Learning content, Learning management, Learning support, Remote learning, e-Learning, etc.	61	Informatics
	Entertainment and game informatics-related		
62040	Music information processing, 3D content, Animation, Game programming, Network entertainment, Media art, Digital museum, Experience design, etc.	61	Informatics
	Perceptual information processing-related		
61010	Pattern recognition, Image processing, Computer vision, Visual media processing, Acoustic media processing, Media editing, Media database, Sensing, Sensor fusion, etc.	62	Informatics
	Human interface and interaction-related		
	Human interface, Multi-modal interface, Human-computer interaction,	╡	
61020	Computer supported cooperative work, Virtual reality, Augmented reality, Realistic communication, Wearable device, Usability, Ergonomics, etc.	62	Informatics
	Intelligent informatics-related		
61030	Search, Inference, Machine learning, Knowledge acquisition, Intelligent system, Intelligent information processing, Natural language processing, Data mining, Ontology, Agent system, etc.	62	Informatics

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Research content (Basic Section)	Examples of related research content	Research content(Medium-sized Sections) and Research field corresponding Research content(Basic Sections	
(Basic Section)		Research content (Medium-sized Section)	Research field
	Soft computing-related		
61040	Neural network, Evolutionary computation, Fuzzy theory, Chaos, Complex systems, Probabilistic information processing, etc.	62	Informatics
	Intelligent robotics-related		
61050	Intelligent robot, Behavior and environment recognition, Planning, Sensory behavior system, Autonomous system, Digital human, Real world information processing, Physical agents, Intelligent space, etc.	62	Informatics
	Kansei informatics-related		
61060	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.	62	Informatics
	Molecular biology-related		
43010	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.	71	Biological sciences
	Structural biochemistry-related	71	
43020	Proteins, Nucleic acids, Lipids, Carbohydrates, Biological membrane, Molecular recognition, Denaturation, Three-dimensional structural analysis, Three-dimensional structural prediction, Molecular dynamics, etc.		Biological sciences
	Functional biochemistry-related		
43030	Enzymes, Sugar chain, Bioenergy conversion, Biological trace elements, Physiologically active substances, Cell signaling, Membrane transport, Proteolysis, Molecular recognition, Organelle, etc.	71	Biological sciences
	Biophysics-related		
43040	Structure biology, Physical property of biomolecules, Biomembrane, Photobiology, Molecular motor, Biometrics, Bioimaging, Systems biology, Synthetic biology, Theoretical biology, etc.	71	Biological sciences
	Genome biology-related		
43050	Genome organization, Genome function, Genome diversity, Molecular evolution of genome, Genome repair/maintenance, Trans-omics, Epigenome, Gene resource, Genome dynamics, etc.	71	Biological sciences
	System genome science-related		
43060	Network analyses, Synthetic biology, Biological databases, Bioinformatics, Genome analysis technology, Genome biotechnology, etc.	71	Biological sciences
	Cell biology-related		
44010	Cytoskeleton, Proteolysis, Organelle, Nuclear structure and function, Extracellular matrix, Signal transduction, Cell cycle, Cell motility, Cell-cell interaction, Cellular genetics, etc.	72	Biological sciences
44020	Developmental biology-related Cell differentiation, Stem cells, Regeneration, Germ layer formation, Morphogenesis, Organogenesis, Fertilization, Germ cells, Developmental genetics, Evolution and development, etc.	72	Biological sciences

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Research content (Basic Section)	Examples of related research content	Research content(Medium-size Sections) and Research field corresponding Research content(Basic Section	
(Busic Section)		Research content (Medium-sized Section)	Research field
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.	72	Biological sciences
44040	Morphology and anatomical structure-related Morphology, Comparative morphology, Morphological modeling, Ultrastructure, Morphological image analysis, Tissue organization, Microscopic technology, Imaging, etc.	72	Biological sciences
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.	72	Biological sciences
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.	73	Biological sciences
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.	73	Biological sciences
45030	Biodiversity and systematics-related Taxonomic characters, Taxon, Classification system, Molecular phylogeny, Phyletic evolution, Speciation, Natural history, Biogeography, Rare species conservation, Biodiversity, etc.	73	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.	73	Biological sciences
45050	Physical anthropology-related Morphology and function, Bioarchaeology, Biological mechanism, Genome, Evolutionary genetics, Behavior, Ecology, Comparative cognition, Primates, Growth and aging, etc.	73	Biological sciences
45060	Applied anthropology-related Physiological anthropology, Ergonomics, Forensic anthropology, Medical anthropology, Physiological polymorphisms, Environmental adaptability, Somatic and physiological function, Anthropometry and bioengineering, Lifestyle, etc.	73	Biological sciences
46010	Neuroscience-general-related Neurochemistry, Neuron, Glia, Genome, Epigenetics, Neurobiology, Information processing, Synapse, Neurogenesis, etc.	74	Biological sciences
46020	Anatomy and histopathology of nervous system-related Neural development, Anatomy of nervous system, Neural network structure, Neuropathology, etc.	74	Biological sciences
46030	Function of nervous system-related Neurophysiology, Neuropharmacology, Neurotransmission, Neuroinformatics, Behavioral neuroscience, Neural system physiology, Cerebral blood flow, Autonomic nervous system, etc.	74	Biological sciences

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Research content (Basic Section)	Examples of related research content		ent(Medium-sized ons) and d corresponding nt(Basic Sections)
		(Medium-sized Section)	Research field
38010	Plant nutrition and soil science-related Plant metabolism and physiology, Nutritional elements in plants, Soil classification, Soil physical chemistry, Soil organisms, etc.	81	Agriculture/Envir onmental sciences
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.	81	Agriculture/Envir onmental sciences
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.	81	Agriculture/Envir onmental sciences
38040	Bioorganic chemistry-related Bioactive substances, Signal molecules, Natural products chemistry, Biosynthesis, Structure-activity relationship, Synthetic organic chemistry, Chemical biology, etc.	81	Agriculture/Envir onmental sciences
38050	Food sciences-related Food function, Food chemistry, Nutritional chemistry, Food analysis, Food engineering, Food safety, Functional food, Nutritional epidemiology, Clinical nutrition, etc.	81	Agriculture/Envir onmental sciences
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.	81	Agriculture/Envir onmental sciences
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.	82	Agriculture/Envir onmental sciences
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.	82	Agriculture/Envir onmental sciences
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.	82	Agriculture/Envir onmental sciences
39040	Plant protection science-related Plant pathology, Clinical plant science, Agricultural insect pest, Natural enemy, Weed, Agricultural chemicals, Integrated pest management, etc.	82	Agriculture/Envir onmental sciences
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.	82	Agriculture/Envir onmental sciences
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.	82	Agriculture/Envir onmental sciences

Research content (Basic Section)	Examples of related research content	Research content(Medium-sized Sections) and Research field corresponding Research content(Basic Sections	
		Research content (Medium-sized Section)	Research field
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.	82	Agriculture/Envir onmental sciences
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.	82	Agriculture/Envir onmental sciences
41020	Rural sociology and agricultural structure-related Farm organization, Farm management, Agricultural structure, Agricultural market, Agricultural history, Rural society, Rural life, Agricultural cooperative, etc.	82	Agriculture/Environmental sciences
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.	82	Agriculture/Envir onmental sciences
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.	82	Agriculture/Envir onmental sciences
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.	82	Agriculture/Environmental sciences
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.	83	Agriculture/Environmental sciences
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.	83	Agriculture/Environmental sciences
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.	83	Agriculture/Environmental sciences
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.	83	Agriculture/Environmental sciences

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Research content (Basic Section)	Examples of related research content	Research content(Medium-sized Sections) and Research field corresponding Research content(Basic Sections) Research content	
		(Medium-sized Section)	Research field
	Animal production science-related		Agriculture/Envir
42010	Breeding/genetics, Reproduction, Nutrition/feeding, Anatomy/physiology, Product, Environment, Behavior, Therapy, Grassland, Grazing, etc.	84	onmental sciences
	Veterinary medical science-related		Agriculture/Envir
42020	Basic veterinary science, Pathological veterinary science, Applied veterinary science, Clinical veterinary science, Animal nursing, Animal welfare, Wildlife, etc.	84	onmental sciences
	Animal life science-related		Agriculture/Envir
42030	Homeostasis, Cellular function, Biological defense, Integrated genetics, Development/differentiation, Biotechnology, etc.	84	onmental sciences
	Laboratory animal science-related		Agriculture/Envir
42040	Genetic engineering, Developmental engineering, Animal models of disease, Facility management, Laboratory animal welfare, Laboratory animal-related technology, Bioresource, etc.	84	onmental sciences
	Environmental dynamic analysis-related		Agriculture/Envir
63010	Global warming, Environmental change, Water and material cycle, Ocean, Land, Polar regions, Environmental measurements, Environmental model, Environmental information, Remote sensing, etc.	85	onmental sciences
	Radiation influence-related		Agriculture/Envir
63020	Radiation, Measurement, Control, Repair, Biological effects, Risk, etc.	85	onmental sciences
	Chemical substance influence on environment-related	85	Agriculture/Envir
63030	Toxicology, Toxic substance to human, Trace chemical substance, Endocrine disruptor, Repair, etc.		onmental sciences
	Environmental impact assessment-related		
63040	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.	85	Agriculture/Envir onmental sciences
	Environmental load and risk assessment-related		
64010	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.	85	Agriculture/Envir onmental sciences
	Environmental load reduction and remediation-related		
64020	Removal of contamination, Treatment of waste material, Control of contamination source, Disposal of waste material, E nvironmental load reduction, Remediation measure of contamination, Noise and vibration reduction, Countermeasure of ground settlement, Bioremediation, Radioactive decontamination, etc.	85	Agriculture/Environmental sciences
	Environmental materials and recycle technology-related		
64030	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.	85	Agriculture/Envir onmental sciences
	Social-ecological systems-related		
64040	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.	85	Agriculture/Envir onmental sciences

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	Examples of related research content		ent(Medium-sized
Research content (Basic Section)		Research field corresponding Research content(Basic Section 1988)	
		Research content (Medium-sized Section)	Research field
	Sound material-cycle social systems-related		
64050	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.	85	Agriculture/Envir onmental sciences
	Environmental policy and social systems-related		
64060	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.	85	Agriculture/Envir onmental sciences
	Pharmaceutical chemistry and drug development sciences-related		Medicine
47010	Inorganic chemistry, Organic chemistry, Medicinal chemistry, Medicinal molecular design, Drug discovery, Bio-related materials, Chemical biology, etc.	91	dentistry and pharmacy
	Pharmaceutical analytical chemistry and physicochemistry-related		Medicine
47020	Environmental analysis, Bioanalysis, Physicochemistry, Biophysics, Structural biology, Radiochemistry, Bioimaging, Drug formulation design, Computer science, Information science, etc.	91	dentistry and pharmacy
	Pharmaceutical hygiene and biochemistry-related	91	Medicine
47030	Environmental hygiene, Healthful nutrition, Disease prevention, Toxicology, Drug metabolism, Host defense, Molecular biology, Cell biology, Biochemistry, etc.		dentistry and pharmacy
	Pharmacology-related(A)		Medicine
47040	Pharmacology, Pharmacogenomics, Applied pharmacology, Signal transduction, Drug interactions, Drug response, Pharmacotherapy, Pharmacotoxicology, etc.	91	dentistry and pharmacy
	Environmental and natural pharmaceutical resources-related		Medicine
47050	Environmental resource science, Natural products chemistry, Bioactive natural compounds, Medicinal resources, Medicinal foods, Pharmaceutical microbiology, etc.	91	dentistry and pharmacy
	Clinical pharmacy-related		Medicine
47060	Pharmacokinetics, Medical informatics, Social pharmacy, Clinical pharmacy, Pharmaceutics, Regulatory science, Education for the pharmacist, etc.	91	dentistry and pharmacy
	Anatomy-related		Medicine
48010	Macroscopic anatomy, Histology, Embryology, etc.	92	dentistry and pharmacy
	Physiology-related		Medicine
48020	General physiology, Pathophysiology, Comparative physiology, Environmental physiology, etc.	92	dentistry and pharmacy
	Pharmacology-related(B)		Medicine
48030	Genomic pharmacology, Molecular and cellular pharmacology, Pathological pharmacology, Behavioral pharmacology, Pharmacology for drug discovery, Clinical pharmacology, etc.	92	dentistry and pharmacy
	Medical biochemistry-related		Medicine
48040	Biofunctional molecular and medical biochemistry, Genome medical sciences, Human genetics, Disease model, etc.	92	dentistry and pharmacy

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Research content (Basic Section)	Examples of related research content	Research content(Medium-sized Sections) and Research field corresponding Research content(Basic Sections Research content	
		(Medium-sized Section)	Research field
	Pathological biochemistry-related		Medicine
49010	Molecular pathology, Metabolic disorders, Molecular diagnosis, etc.	93	dentistry and pharmacy
	Human pathology-related		Medicine
49020	Molecular pathology, Cyto- and histo-pathology, Diagnostic pathology, etc.	93	dentistry and pharmacy
	Experimental pathology-related		Medicine
49030	Disease models, Pathological regulation, Tissue regeneration, etc.	93	dentistry and pharmacy
	Parasitology-related		Medicine
49040	Parasite, Vector organism, Parasite pathogenicity, Epidemiology of parasites, Control of parasite infections, etc.	93	dentistry and pharmacy
	Bacteriology-related		Medicine
49050	Bacterium, Fungus, Antimicrobial resistance, Bacterial pathogenicity, Epidemiology of bacteria, Control of bacterial infections, etc.	93	dentistry and pharmacy
	Virology-related		Medicine
49060	Virus, Prion, Viral pathogenicity, Epidemiology of viruses, Control of viral infections, etc.	93	dentistry and pharmacy
	Immunology-related		Medicine
49070	Immune system, Immune response, Inflammation, Immune-related disorder, Immune regulation, etc.	93	dentistry and pharmacy
	Tumor biology-related		Medicine
50010	Cancer and gene, Tumor development, Invasion, Metastasis, Cancer microenvironment, Cancer and signal transduction, Characteristics of cancer cells, Cancer and immune cells, etc.	94	dentistry and pharmacy
	Tumor diagnostics and therapeutics-related		
50020	Genome analysis, Diagnostic markers, Molecule imaging, Chemotherapy, Nucleic acid therapy, Gene therapy, Immunotherapy, Molecular targeted therapy, Physical therapy, Radiation therapy, etc.	94	Medicine dentistry and pharmacy
	Basic brain sciences-related		Medicine
51010	Brain-machine interface, Model animal, Computational brain science, Brain information decoding, Control technologies, Brain imaging, Brain biometrics, etc.	94	dentistry and pharmacy
	Cognitive and brain science-related		Medicine
51020	Social behavior, Communication, Emotion, Decision making, Consciousness, Learning, Neuroeconomics, Neuropsychology, etc.	94	dentistry and pharmacy
51030	Pathophysiologic neuroscience-related Clinical neuroscience, Dolorology, Sensory impairment, Movement disorder, Neurological disorder, Neurogenesis, Neuroimmunology, Cellular degeneration, Disease model, etc.	94	Medicine dentistry and pharmacy

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Research content (Basic Section)	Examples of related research content	Sectio Research field	nt(Medium-sized ns) and corresponding nt(Basic Sections) Research field
52010	General internal medicine-related Psychosomatic medicine, Laboratory medicine, General practice, Geriatrics, Psychosomatic internal medicine, Oriental medicine, Palliative medicine, etc.	95	Medicine dentistry and pharmacy
52020	Neurology-related Neurology, Neurofunctional imaging, etc.	95	Medicine dentistry and pharmacy
52030	Psychiatry-related Clinical psychiatry, Biological psychiatry, Forensic mental health, etc.	95	Medicine dentistry and pharmacy
52040	Radiological sciences-related Diagnostic radiology, Therapeutic radiology, Radiation biology, Radiological technology, etc.	95	Medicine dentistry and pharmacy
52050	Embryonic medicine and pediatrics-related Fetal medicine, Neonatal medicine, Pediatrics, etc.	95	Medicine dentistry and pharmacy
53010	Gastroenterology-related Upper digestive tract, Lower digestive tract, Liver, Biliary tract, Pancreas, etc.	95	Medicine dentistry and pharmacy
53020	Cardiology-related Ischemic heart disease, Valvular heart disease, Arrhythmia, Cardiomyopathy, Heart failure, Peripheral arterial disease, Arteriosclerosis, Hypertension, etc.	95	Medicine dentistry and pharmacy
53030	Respiratory medicine-related Respiratory medicine, Asthma, Diffusive lung disease, COPD, Lung cancer, Pulmonary hypertension, etc.	95	Medicine dentistry and pharmacy
53040	Nephrology-related Acute renal failure, Chronic kidney disease, Diabetic nephropathy, Hypertension, Aqueous electrolyte metabolism, Artificial dialysis, etc.	95	Medicine dentistry and pharmacy
53050	Dermatology-related Dermatology, Cutaneous immune disease, Cutaneous infection, Cutaneous tumor, etc.	95	Medicine dentistry and pharmacy
54010	Hematology and medical oncology-related Hematological oncology, Medical oncology, Hematological immunology, Anemia, Thrombosis and hemostasis, Chemotherapy, etc.	95	Medicine dentistry and pharmacy
54020	Connective tissue disease and allergy-related Connective tissue disease, Allergy, Clinical immunology, Inflammation, etc.	95	Medicine dentistry and pharmacy
54030	Infectious disease medicine-related Infection diagnostics, Infection therapeutics, Host defense, International infection science, etc.	95	Medicine dentistry and pharmacy
54040	Metabolism and endocrinology-related Energy balance, Glucose metabolism, Lipid metabolism, Purine metabolism, Bone metabolism, Electrolyte balance, Endocrinology, Neuroendocrinology, Reproductive endocrinology, etc.	95	Medicine dentistry and pharmacy

	rey word list		
Research content (Basic Section)	Examples of related research content	Section Research field	nt(Medium-sized ns) and corresponding nt(Basic Sections)
		Section)	
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.	96	Medicine dentistry and pharmacy
55020	Digestive surgery-related Upper gastrointestinal surgery, Lower gastrointestinal surgery, Hepatic surgery, Biliary surgery, Pancreatic surgery, etc.	96	Medicine dentistry and pharmacy
55030	Cardiovascular surgery-related Coronary artery surgery, Heart valve surgery, Surgery for myocardial disease, Aortic surgery, Vascular surgery, Congenital heart surgery, etc.	96	Medicine dentistry and pharmacy
55040	Respiratory surgery-related Lung surgery, Mediastinal surgery, Chest wall surgery, Respiratory tract surgery, etc.	96	Medicine dentistry and pharmacy
55050	Anesthesiology-related Anesthesiology, Perioperative management, Pain management, Resuscitology, Palliative medicine, etc.	96	Medicine dentistry and pharmacy
55060	Emergency medicine-related Intensive care medicine, Emergency resuscitation science, Trauma surgery, Disaster medicine, Disaster medical care, etc.	96	Medicine dentistry and pharmacy
56010	Neurosurgery-related Neurosurgery, Spine and spinal cord diseases, etc.	96	Medicine dentistry and pharmacy
56020	Orthopedics-related Orthopedics, Rehabilitation medicine, Sports medicine, etc.	96	Medicine dentistry and pharmacy
56030	Urology, Male genitalia science, etc.	96	Medicine dentistry and pharmacy
56040	Obstetrics and gynecology-related Obstetrics, Reproductive endocrinology, Gynecologic oncology, Female health care medicine, etc.	96	Medicine dentistry and pharmacy
56050	Otorhinolaryngology-related Otorhinolaryngology, Head and neck surgery, etc.	96	Medicine dentistry and pharmacy
56060	Ophthalmology-related Ophthalmology, Ophthalmological optics, etc.	96	Medicine dentistry and pharmacy
56070	Plastic and reconstructive surgery-related Plastic surgery, Reconstructive surgery, Aesthetic plastic surgery, etc.	96	Medicine dentistry and pharmacy

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Research content (Basic Section)	Examples of related research content	Research content(Medium-sized Sections) and Research field corresponding Research content(Basic Sections) Research content	
		(Medium-sized Section)	Research field
57010	Oral biological science-related Oral anatomy, Oral histology and embryology, Oral physiology, Oral biochemistry, Pharmacology for hard tissues, etc.	97	Medicine dentistry and pharmacy
57020	Oral pathobiological science-related Oral infectious diseases, Oral pathology, Oral experimental oncology, Immunity and inflammation, Laboratory medicine, etc.	97	Medicine dentistry and pharmacy
57030	Conservative dentistry-related Operative dentistry, Endodontology, Periodontology, etc.	97	Medicine dentistry and pharmacy
57040	Regenerative dentistry and dental engineering-related Regenerative dentistry, Biomaterial science, Dental materials science, Oral and maxillofacial prosthetics, Oral implantology, etc.	97	Medicine dentistry and pharmacy
57050	Prosthodontics-related Prosthodontics, Oral rehabilitation, Gerodontology, etc.	97	Medicine dentistry and pharmacy
57060	Surgical dentistry-related Oral and maxillofacial surgery, Oral maxillofacial reconstructive surgery, Dental anesthesiology, Psychosomatic medicine dentistry, Dental radiology, etc.	97	Medicine dentistry and pharmacy
57070	Developmental dentistry-related Orthodontics, Pediatric dentistry, etc.	97	Medicine dentistry and pharmacy
57080	Social dentistry-related Dental hygiene, Preventive dentistry, Oral health administration and management, Dental education, Forensic odontology, etc.	97	Medicine dentistry and pharmacy
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.	98	Medicine dentistry and pharmacy
58020	Hygiene and public health-related: including laboratory approach Hygiene, Public health, Epidemiology, Global health, etc.	98	Medicine dentistry and pharmacy
58030	Hygiene and public health-related: excluding laboratory approach Hygiene, Public health, Epidemiology, Global health, etc.	98	Medicine dentistry and pharmacy
58040	Forensics medicine-related Forensic medicine, Forensic pathology, Forensic toxicology, Forensic genetics, Suicide, Abuse, Clinical forensic medicine, Sudden death, etc.	98	Medicine dentistry and pharmacy
58050	Fundamental of nursing-related Fundamental of nursing, Nursing education, Nursing administration, Nursing ethics, Global nursing, etc.	98	Medicine dentistry and pharmacy

Research content	Examples of related research content	Research content(Medium-sized Sections) and Research field corresponding Research content(Basic Sections)	
(Basic Section)	·	Research content (Medium-sized Section)	Research field
	Clinical nursing-related		Medicine
58060	Critical care and emergency nursing, Perioperative nursing, Nursing of chronic illness, Oncology nursing, Psychiatric nursing, Palliative care nursing, etc.	98	dentistry and pharmacy
58070	Lifelong developmental nursing-related Women's health nursing, Maternal nursing, Midwifery, Family health nursing, Child health nursing, School nursing, etc.	98	Medicine dentistry and pharmacy
58080	Gerontological nursing and community health nursing-related Gerontological nursing, Community health nursing, Public health nursing, Disaster nursing, Home care nursing, etc.	98	Medicine dentistry and pharmacy
59010	Rehabilitation science-related Rehabilitation medicine, Rehabilitation nursing, Rehabilitation medical care, Physicotherapeutics, Occupational therapy, Assistive technology, Speech and language therapy, etc.	98	Medicine dentistry and pharmacy
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.	98	Medicine dentistry and pharmacy
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.	98	Medicine dentistry and pharmacy
59040	Nutrition science and health science-related Nutritional physiology, Nutritional biochemistry, Nutritional education, Clinical nutrition, Functional food, Lifestyle-related disease, Health promotion, Aging, etc.	98	Medicine dentistry and pharmacy
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.	11,53, 62	Humanities, Engineering sciences, Informatics
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.	12, 61	Humanities, Informatics
90030	Cognitive science-related Cognitive science in general, Cognitive models, Kansei, Human factors, Cognitive and brain science, Comparative cognition, Cognitive linguistics, Cognitive engineering, etc.	26, 62	Social sciences, Informatics
90110	Biomedical engineering-related Medical imaging, Medical modeling, Biological simulation, Biometrics, Artificial organs, Tissue engineering, Biophysical properties, Biocontrol, Biomechanics, Nanobio systems, etc.	90	Engineering sciences, Medicine dentistry and
90120	Biomaterials-related Biofunctional materials, Tissue engineering materials, Biocompatible materials, Nanobio materials, Drug delivery systems, Stimuli-sensitive materials, Genetic engineering material, etc.	90	Engineering sciences, Medicine dentistry and pharmacy
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.	90	Engineering sciences, Medicine dentistry and pharmacy

Research content (Basic Section)	Examples of related research content	Research content(Medium-sized	
		Sections) and	
		Research field corresponding	
		Research content(Basic Sections)	
		Research content	
		(Medium-sized	Research field
		Section)	
90140	Medical technology assessment-related	90	Engineering
	Regulatory science, Safety evaluation, Clinical study, Medical technology ethics, Medical devices, etc.		sciences,
			Medicine
			dentistry and
90150	Medical assistive technology-related	90	Engineering
	Healthcare and rehabilitation engineering, Life assist technology, Care support technology,		sciences,
	Accessibility design, Universal design, Rehabilitation and nursing robot,		Medicine
	Assist device for artificial internal organ, Rehabilitation devices, Nursing science and engineering, etc.		dentistry and
			pharmacy