

Major Catalog in School of Earth and Space Sciences

Major	Research Field	Mode	Teaching Language
地图学与地理信息系统(Cartology and GIS) (070503)	01. 地理信息系统方法(Geographic Information System Methods)	Full-time	English
	02. 数字地球与智慧城市(Digital earth and smart city)	Full-time	English
	03. 空间信息智能处理与理解(Spatial information intelligent processing and understanding)	Full-time	English
	04. 空间分析方法和GIS建模(Spatial analysis methods and GIS modeling)	Full-time	English
	05. 矿山空间信息应用工程(Spatial information applications and engineering in mines)	Full-time	English
	06. 空间信息科学与信息工程(Spatial information science and engineering)	Full-time	English
	07. 时空大数据计算与挖掘(Computation and mining for spatio-temporal Big Data)	Full-time	English
	08. 水文地理空间大数据分析(Hydrologic geospatial big data analysis)	Full-time	English
	09. 三维地理信息与空间智能(Three Dimensional GIS & GeoAI)	Full-time	English
固体地球物理学(Solid Geophysics) (070801)	01. 理论地震学(Theoretical Seismology)	Full-time	English
	02. 地球动力学(Geodynamics)	Full-time	English
	03. 勘探地震学(Exploration Seismology)	Full-time	English
	04. 地球电磁学(Geoelectromagnetics)	Full-time	English
	05. 地壳形变与卫星大地测量学(Crustal Deformation and Satellite Geodesy)	Full-time	English
	06. 地震力学与统计地震学(Earthquake Mechanics and Statistical Seismology)	Full-time	English
	07. 计算地震学(Computational Seismology)	Full-time	English
	08. 震源运动学(Earthquake Kinematics)	Full-time	English
	09. 震源动力学(Earthquake Dynamics)	Full-time	English
	10. 震源水文学(Earthquake Hydrology)	Full-time	English
	11. 深部地球物理学(Deep-Earth Geophysics)	Full-time	English
	12. 实时地震学(Real-time Seismology)	Full-time	English
	13. 行星地震学(Planetary Seismology)	Full-time	English
	14. 地震大数据和深度学习(Seismic Big Data and Deep Learning)	Full-time	English
	15. 结构地震学(Structural Seismology)	Full-time	English
	16. 地震物理学(Earthquake Physics)	Full-time	English
空间物理学(Space Physics) (070802)	01. 磁层物理学、空间等离子体物理学、空间环境学(Magnetospheric physics, space plasma physics, space environment)	Full-time	English
	02. 电离层物理学和电波传播(Ionospheric physics and radio wave propagations)	Full-time	English
	03. 太阳与日球层粒子物理(Solar and heliospheric energetic particle physics)	Full-time	English
	04. 太阳大气与太阳风物理(Physics of the solar atmosphere and solar wind)	Full-time	English
	05. 行星与小天体物理(Physics of Planets and Solar System Small Bodies)	Full-time	English

空间物理学(Space Physics) (070802)	06. 空间物理和空间环境探测技术(Exploration Technology for Space physics and Space Environment Engineering)	Full-time	English
矿物学、岩石学、矿床学(Mineralogy Petrology Economic Geology) (070901)	01. 变质地质学(Metamorphic Geology)	Full-time	English
	02. 变质岩石学(Metamorphic Petrology)	Full-time	English
	03. 岩石大地构造(Petrological Structure)	Full-time	English
	04. 岩浆作用与成矿(Magmatism and Mineralization)	Full-time	English
	05. 岩浆岩地球化学(Igneous Rock Geochemistry)	Full-time	English
	06. 矿床学(Economic Geology)	Full-time	English
	07. 流体与成矿作用(Fluid Mineralization)	Full-time	English
	08. 沉积岩石学(Sedimentary petrology)	Full-time	English
	09. 行星物质科学(Planetary Material Science)	Full-time	English
地球化学(Geochemistry) (070902)	01. 同位素地球化学(Isotope geochemistry)	Full-time	English
	02. 矿床地球化学(geochemistry of mineral deposits)	Full-time	English
	03. 化学地球动力学(chemical geodynamics)	Full-time	English
	04. 实验地球化学(experimental geochemistry)	Full-time	English
	05. 岩石地球化学(petrogeochemistry)	Full-time	English
古生物学与地层学(Paleontology and Stratigraphy) (070903)	01. 古地理与古环境(Paleogeography and Paleoenvironment)	Full-time	English
	02. 微体古生物学(Micropaleontology)	Full-time	English
	03. 生物地层学(Biostratigraphy)	Full-time	English
	04. 古植物学(Paleobotany)	Full-time	English
	05. 古脊椎动物学(Vertebrate Paleontology)	Full-time	English
	06. 古无脊椎动物学(Invertebrate Paleontology)	Full-time	English
	07. 沉积地球化学(Sedimentary geochemistry)	Full-time	English
	08. 天文年代学(Astrochronology)	Full-time	English
	09. 全球变化(Global change)	Full-time	English
构造地质学(Structural Geology) (070904)	01. 构造地质学(Structural Geology)	Full-time	English
	02. 地球与行星动力学(Dynamics of Earth and Planet)	Full-time	English
	03. 区域大地构造学(Regional Tectonics)	Full-time	English
	04. 盆地构造与油气构造(Basin Tectonics and Hydrocarbon Structural Geology)	Full-time	English
	05. 活动构造与地震(Active Structures and Earthquake)	Full-time	English
	06. 构造磁学(Magnetotectonics)	Full-time	English
	07. 火山与地球系统(Volcanology and Earth System)	Full-time	English
	08. 构造地貌与层圈作用(Tectonic Geomorphology and Sphere Interaction)	Full-time	English
	09. 构造物理与模拟(Tectonophysics and Simulation)	Full-time	English
	10. 应用地质学(工程、环境、能源等)(Applied Geology)	Full-time	English
	11. 新能源与碳中和地质科学与工程(Geological Science and Engineering for Renewable Energy and Carbon Neutrality)	Full-time	English

地质学 (材料及环境矿物学) (Geomaterials and Environmental Mineralogy) (070920)	01. 环境矿物学及环境矿物材料学(environmental mineralogy and environmental mineral materials)	Full-time	English
	02. 矿物与微生物(minerals and microorganisms)	Full-time	English
	03. 行星矿物学与天体生物学(Planetary Mineralogy and Astrobiology)	Full-time	English
	04. 矿物信息学(Mineral Informatics)	Full-time	English
	05. 新型碳石墨材料(novel materials of carbon and graphite)	Full-time	English
	06. 矿物资源综合利用(comprehensive utilization of mineral resources)	Full-time	English
地质学 (石油地质学) (Petroleum Geology) (070921)	01. 含油气盆地构造(Tectonics in Petroliferous basin)	Full-time	English
	02. 沉积盆地分析与古地理学(Sedimentary basin analysis and Paleogeography)	Full-time	English
	03. 油气地球物理与地震沉积学(Oil and Gas geophysics and Seismic Sedimentology)	Full-time	English
	04. 储层地质学(Reservoir Geology)	Full-time	English
	05. 非常规油气勘探开发(Exploration and Development of Unconventional Oil and Gas)	Full-time	English
	06. 油气资源评价与勘探开发(Oil and Gas resource assessment and Exploration & Development)	Full-time	English
	07. 沉积地球化学(Sedimentary Geochemistry)	Full-time	English
	08. 天然气水合物勘探开发(Exploration and Development of Natural Gas Hydrate)	Full-time	English
	09. 油气地球化学(Petroleum geochemistry)	Full-time	English
	10. 油气藏储层岩石力学(Rock mechanics of petroleum reservoir)	Full-time	English
	11. CO2地质利用与封存(Geological CO2 Utilization and Storage)	Full-time	English
	12. 油气资源利用与碳中和(Oil/Gas Utilization and Carbon Neutrality)	Full-time	English
	13. 孔隙介质中物质的物理和化学性质(Chemical and physical properties of materials in porous media)	Full-time	English
	14. 天然气地质(Natural Gas Geology)	Full-time	English
摄影测量与遥感(Photogrammetry and Remote Sensing) (081602)	01. 全球变化水循环遥感(Remote Sensing for global change of water circulation)	Full-time	English
	02. 遥感大数据(Remote sensing big data)	Full-time	English
	03. 定量遥感成像学与定标方法(Imaging of quantitative remote sensing and calibration methods)	Full-time	English
	04. 遥感信息工程(Remote sensing information engineering)	Full-time	English
	05. 卫星导航技术与应用(Satellite navigation technology and application)	Full-time	English
	06. 微波遥感与应用(Microwave remote sensing and application)	Full-time	English
	07. 高光谱遥感数据获取与应用(Acquisition and application of hyperspectral remote sensing data)	Full-time	English
	08. 定量遥感及智能处理(Quantitative remote sensing and intelligent processing)	Full-time	English
	09. 遥感信息处理与应用(Remote sensing information processing and application)	Full-time	English
	10. 高分辨率遥感(High resolution remote sensing)	Full-time	English
	11. 生态与环境遥感(Remote sensing for ecology and environment)	Full-time	English

摄影测量与遥感(Photogrammetry and Remote Sensing) (081602)	12. 智能交通与物联网(Intelligent transportation and internet of things)	Full-time	English
	13. 行星遥感(Planetary remote sensing)	Full-time	English
	14. 激光雷达遥感(LiDAR remote sensing)	Full-time	English
	15. 无人机遥感(UAV remote sensing)	Full-time	English
	16. 大气环境遥感(Remote Sensing of Atmosphere Environment)	Full-time	English