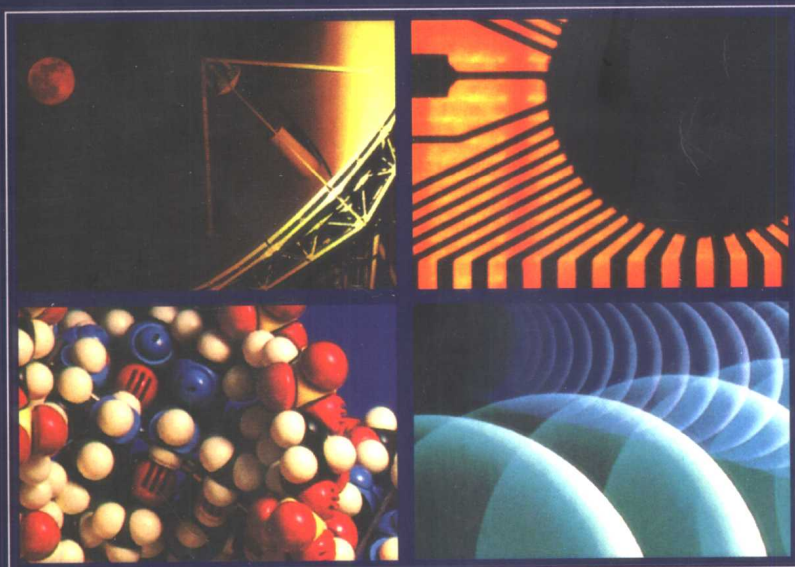


1998

最新

主编 郑晓南



SCI源期刊要目总览

副主编 林跃 邹桐

第二军医大学出版社

SCIENCE CITATION INDEX EXPANDED

内 容 提 要

国际权威检索系统—美国《科学引文索引》(SCI)以其全面覆盖世界最重要、最有影响的研究成果称著于世,它所刊载的科技期刊集中了各学科高质量优秀论文的精华。SCI的研究成果代表着世界基础科学研究的最高水准。一个国家科技论文被SCI收录和引用,是评价该国的国际学术地位、基础科学研究水平、科技实力和科技论文质量高低的重要标准。

由于多年来我国科技界对SCI源期刊知之甚少,许多突破性科技创新成果仅发表在一些影响因子较低、不易被SCI检索的学术期刊上,使得这些论文本应产生的巨大影响远远没有发挥出来。有鉴于此,作为中国高等学校自然科学学报研究会基金课题的研究成果,本书收录了截止至1998年底经美国科学信息研究所(ISI)筛选核准的涉及160门学科2000余种专业的SCI核心版(3436种)及SCI扩大版增补期刊共5648种源刊物的刊名、刊期、连续出版物(ISSN)号;主要条目还包括刊物中译名、学科分类号、出版机构地址及源刊的被引频次、影响因子、即年指标、总载文量、被引半衰期等,可从不同角度反映出源期刊实际出版周期、学术质量、载文量、流通使用情况及其学科特性。该书的出版不仅有益于加快中国科技期刊与国际接轨的步伐,而且可为科研管理部门评价工作绩效、职称评定提供客观依据,还可引导科研人员直接向SCI源期刊投稿,使其学术成果得到世界科技领域的认同,这不仅是研究人员学术水准的衡量标志,而且是学术机构创新实力的重要体现,更是大幅度提高我国国际学术地位的有效途径!

书中附有SCI核心版与扩大版中国源期刊的详细条目介绍,还附有截止至1999年7月十大国际权威检索系统收录的中国科技期刊的刊源表,该书时效新,信息量大,资料全面、内容翔实,检索方便,是高等学校、科研院所、图书情报系统、科研管理部门、期刊编辑部所需的工具书。

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问世

翁永庆贺
一九九九年二月

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中国期刊协会副会长

《编辑学报》编辑委员会前任主编

加强国际学术交流
展现知识创新成果

陈运泰题
五月九日
百

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科技期刊的水平是
显示一个国家科技发展水
平和综合实力的重要标志。

刘振兴
一九九九年一月三十日

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了解SCI源期刊，
提高我国科技刊物
的国际竞争力

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国家新药研究与开发协调领导小组顾问

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《中国药学年鉴》、《中国药科大学学报》主编

前 言

对科研成果的评价是关系到科学家个人、科技期刊,甚至是一个国家科学技术整体水平的重要问题。当今,国际科技界公认美国《科学引文索引》(Science Citation Index,简称SCI)是一种比较客观和定量、易操作的评价方法。

长期以来,我国科技界对SCI源期刊不够重视,许多创新的科技成果发表在不被或不易被SCI检索的科技期刊上,以至未能在国际学术界产生应有的影响;对美国科学信息研究所(ISI)选择SCI核心源期刊的要求不甚了解,以至中国大陆科技期刊进入SCI甚少,这与中国在国际学术界的地位极不相称。

为了早日改变当前的状况,中国高等学校自然科学学报研究会于1998年设立《最新SCI源期刊要目总览》(核心版与扩大版)基金课题,并委托中国药科大学学报编辑部负责研究,本书即为该研究成果的汇编。《最新SCI源期刊要目总览》(核心版与扩大版)收集了国内外有关SCI的最新资料,包括SCI的最新核心期刊3436种及SCI扩大版增补期刊2212种,共5648种源刊物;列出源刊160门学科,涉及2000种专业,几乎覆盖了当前自然科学研究的全部领域。书中还附有世界著名学术期刊的出版机构地址,以及SCI源期刊科学评价指标。

知识经济时代正向我们走来,以高科技信息为主导的新型产业的崛起,标志着知识和掌握高科技知识的新型人才将是21世纪主宰各国社会和经济发展的动力。扶植和培养我国在国际学术界有影响的高级人才,是中国科学院、中国高等学校、各研究机构肩负的历史任务,也是我国科技期刊的重要责任。中国有更多的科技期刊走向世界,并成为SCI源期刊,中国的科技成果才会被国际科技界公认,我国科学家才能成为国际有影响的科学家,从而大大地提高我国的国际学术地位。从这个意义上说,该书的出版将有助于我国科学家全面了解SCI,为他们提供一条走向世界的捷径;有助于我国科技期刊的编辑们了解ISI选择SCI源期刊的标准,为他们早日进入SCI指出了努力方向;有助于我国科技期刊管理部门了解国际科技期刊的发展的信息,为他们制订科技期刊政策提供依据。

因此,《最新SCI源期刊要目总览》的意义是广泛的,应有广大的读者群,同时它将会受到科研院所、高等学校、图书情报机构、政府主管部门的欢迎。

中国高等学校自然科学学报研究会副理事长
中国高等学校自然科学学报编辑学研究基金会主任
吴石忠

编写说明

美国科学情报研究所 (ISI) 以文献计量学方法科学评价、收录源期刊, 创建了著名的引文数据库——国际权威检索系统 SCI, SCI 源期刊代表了世界基础科学核心期刊, 它们所刊载的学术成果集中了各学科高质量优秀论文的精华。本书著录了 SCI 源期刊主要条目, 是学术类工具书籍, 它不仅有助于学术出版机构了解国际核心期刊动态, 指导学者向 SCI 源期刊投稿、还可为科研管理部门评价工作绩效提供客观依据。全书由前言、说明、目次、学科分类索引、正文、附录组成。

1. 正文部分由 SCI 源期刊学科分类目录、SCI 源期刊刊名目录、SCI 源期刊出版机构地址、SCI 源期刊科学评价指标四部分组成。著录格式如下:

(1). “SCI 源期刊学科分类目录”收录了经 ISI 筛选核准的涉及 160 门学科 2000 余种专业, 按学科英文字母顺序排列, 学科的中文分类可在“学科分类索引”中查找。

(2). 截止 1998 年底, ISI 收录的 SCI 扩大版 (SCIE) 5648 种源期刊中, 含有 SCI 核心版 3436 种期刊及增补的 2212 种期刊, “SCI 源期刊刊名目录”著录了这 5648 种源期刊的刊名、刊期、连续出版物 (ISSN) 号, 增补期刊用下划线 “_____” 标示, 与核心期刊区分, 内容以英文字母顺序排列。

(3). “SCI 源期刊出版机构地址”参考中图公司《国外报刊索引》及东南大学出版社《学者必览》, 以英文字母顺序排列。例: ①★ ②ACCOUNTS OF CHEMICAL RESEARCH ③《化学研究述评》④. 540 ⑤American Chemical Society, 38800 Country Club Dr., Farmington Hills MI, 48333-3411, USA. 说明: ①特征标记: ★代表 SCI 核心版期刊, ●代表 SCIE 扩大版中增补期刊, 未标示者包括从 SCISearch 动态数据库中流动出的前 SCI 源期刊, 及部分 EI (Engineering Index) 源期刊; ②刊名; ③中译期刊名; ④数字代表学科分类号, 分类编码见“附录 4”; “.” 为计算机提示符, 以配合磁盘版根据学科分类查找期刊。⑤出版机构地址。

(4). 科学评价指标内容源引 1996 年美国 ISI 的 JCR, 含 SCI 源期刊 4779 种, 编排格式包括刊名、ISSN 号、被引频次、影响因子、即年指标、年载文量、被引半衰期。

2. 附录内容有 5 部分。附录 1 中包括收录著录项目变更前后的 SCI 源期刊, 以下划线标示增补期刊。附录 3 为始自 1997 年 5 月 10 个国际权威检索系统收录的中国刊源表, 其中源至 5 大检索数据机构 1999 年 6 月的最新信息, 为国内首次公布。

由于本书编撰工作量大、内容繁复, 限于专业知识水平及时间、设备、资料来源等因素, 疏漏不足之处谨希望批评指正。本书在编辑出版过程中承著名科学家及部分学术出版机构的关心与支持, 并获得中国高等学校自然科学学报研究会基金资助, 在此一并表示衷心谢忱!

编 者

目 次

SCI 源期刊学科分类目录.....	1
--------------------	---

SCI 源期刊刊名目录.....	24
------------------	----

A.....	24	H.....	107	O.....	196	V.....	241
B.....	52	I.....	111	P.....	200	W.....	243
C.....	62	J.....	132	Q.....	216	X.....	245
D.....	83	K.....	174	R.....	217	Y.....	245
E.....	87	L.....	175	S.....	223	Z.....	245
F.....	98	M.....	177	T.....	234		
G.....	103	N.....	189	U.....	240		

SCI 源期刊出版机构地址.....	248
--------------------	-----

A.....	248	H.....	330	O.....	416	V.....	462
B.....	275	I.....	334	P.....	420	W.....	464
C.....	286	J.....	355	Q.....	436	X.....	467
D.....	307	K.....	393	R.....	437	Y.....	467
E.....	308	L.....	395	S.....	442	Z.....	467
F.....	321	M.....	397	T.....	453		
G.....	326	N.....	410	U.....	461		

SCI 源期刊科学评价指标.....	471
--------------------	-----

附录

1. SCI 源刊中著录项目变更期刊.....	578
-------------------------	-----

2. SCI 核心版与扩大版收录的中国科技期刊名录.....	583
--------------------------------	-----

3. 国际权威检索系统收录的中国源期刊.....	590
--------------------------	-----

美国 ISI 检索系列	590	美国《工程索引》(EI)	592
-------------------	-----	--------------------	-----

英国《科学文摘》(SA)	595	日本《科技文献速报》(CBST)	596
--------------------	-----	------------------------	-----

美国《化学文摘》(CA 千种表)	597	俄罗斯《文摘杂志》(PЖ)	599
-----------------------	-----	---------------------	-----

美国《生物学文摘》(BA)	600	美国《医学索引》(MEDLINE)	602
---------------------	-----	-------------------------	-----

世界卫生组织《医学增补文摘》光盘数据库 (ExtraMED)	602
--------------------------------------	-----

美国《坎布里奇科学文摘》(CSA)	604
-------------------------	-----

4. 中国科学院图书馆学科分类 (自然科学) 编码索引.....	608
----------------------------------	-----

5. 部分期刊与科研院所介绍.....	613
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SCI 源期刊学科分类目录

Science Citation Index

Science Citation Index Expanded

Acoustics 声学

The Acoustics category contains journals that cover the study of the generation, control, transmission, reception, and effects of sounds. Journals in this area also cover general acoustics; linear and nonlinear acoustics; atmospheric sound; underwater sound; the effects of mechanical vibrations, shock waves, and noise; architectural acoustics; audio engineering; audiology; and ultrasound applications.

Aerospace Engineering & Technology 航天工程与技术

Journal coverage in the Aerospace Engineering & Technology category encompasses the engineering-based literature of astronautics, aeronautics, aerospace, and aviation. Topics include the design and construction of aircraft, space vehicles, missiles, satellites, instrumentation, and power units, as well as the launch, flight, and guidance of crafts in the earth's atmosphere or in space. Research in this category draws from many fields, including mechanics and mechanical engineering, automation, instrumentation, and materials science.

Agricultural Economics & Policy 农业经济与政策

The Agricultural Economics & Policy category focuses on journals covering the production, distribution, and consumption of agricultural commodities, as well as managerial and policy-making decisions concerning these commodities.

Agriculture 农业

The Agriculture category covers journals in a number of agricultural sciences, including agronomy, crop protection and science, agricultural water management, plant nutrition, agricultural entomology and pesticide science, plant and soil science, agricultural engineering, weed science, and agricultural chemistry. This category also includes general agricultural journals that emphasize aspects of the selection, breeding, management, and post-harvest treatment of crops.

Agriculture, Dairy & Animal Science 农业, 奶制品与动物科学

The Agriculture, Dairy & Animal Science category covers journals concentrating on the selection, breeding and management of livestock, including journals focusing on animal science, animal nutrition, poultry science, animal breeding and genetics, dairy science, and animal production science.

Agriculture, Soil Science 农业, 土壤科学

The category Agriculture, Soil Science, includes journals covering many aspects of the nature, distribution, and utilization of soils, including soil biology and fertility, soil biochemistry, soil conservation and tillage research, and soil chemistry and physics.

Allergy 变态反应

The Allergy category includes journals dealing with the full spectrum of immunologically mediated hypersensitivity reactions, including immediate or acute hypersensitivity, dermatitis, and asthma. This

category also covers literature on the underlying cellular and molecular immunology specific to allergic reactivity, pathogenesis, tissue damage, clinical presentation, and modes of treatment.

Anatomy & Morphology 解剖学与组织形态学

The Anatomy & Morphology category includes journals describing the characteristics, generation, and organization of structure in vertebrates or invertebrates. Topics cover embryology, developmental morphology, and functional anatomy, as well as journals devoted to a specific structure, system, or organism. Journals on plant structure and embryology are placed preferentially in the Plant Science category.

Andrology 男性学

The Andrology category includes journals focused on the development, function, and disorders of male morphology and reproductive systems. Topics include gonad formation, gamete generation and function, male reproductive health and endocrinology, and sex determination in the male embryo.

Anesthesiology 麻醉学

The Anesthesiology category covers journals that focus on the administration of anesthetics, the treatment of pain, and the use of life support systems. This category also includes specific journals on cardiovascular anesthesia, pediatric anesthesia, and neurosurgical anesthesia.

Astronomy & Astrophysics 天文学与天体物理学

The Astronomy & Astrophysics category covers journals that focus on the science of the celestial bodies and their magnitudes, motions, and constitution. Topics include the properties of celestial bodies such as luminosity, size, mass, density, temperature, and chemical composition, as well as their origin and evolution. This category sometimes may include material on planetary science, which generally falls under Geochemistry & Geophysics.

Behavioral Sciences 行为科学

The Behavioral Sciences category focuses on journals dealing with the biological correlates of observable action in humans or animals. These include sleep, aggression, sexual behavior, and learning, as well as the various natural or pharmacological factors that alter such behaviors. Journals in this category cover neurobiology, experimental psychology, ethology, cognitive assessment, and behavioral consequences of neurological disorders.

Biochemical Research Methods 生物化学研究方法

The Biochemical Research Methods category includes journals that describe specific techniques used in biological and biochemical research, including methods for the purification and analysis of biomolecules, the observation of the structure or function of living organisms and tissues (exclusive of microscopy), and the alteration of biomolecules for specific research or biotechnology applications. This category does not include journals on clinical applications or the development and design of diagnostic tools.

Biochemistry & Molecular Biology 生物化学与分子生物学

The Biochemistry & Molecular Biology category covers research on carbohydrates, fats, proteins, nucleic acids, genes, drugs, toxic substances and other constituents of cells, microbes, and higher plants and

animals including humans. This category also includes information on the technologies used to study biochemistry and biophysics, such as the methods of the clinical laboratory, molecular biology, and pharmacology.

Biology 生物学

The Biology category includes journals that cover a range of topics in the biological sciences, as well as journals focusing on various approaches to biological research, such as applied biology, radiation biology, biological rhythm research, conservation biology, developmental biology, human biology and evolutionary biology.

Biology, Miscellaneous 生物学, 相关学科

The Biology, Miscellaneous category includes journals that cover a specific area in biology, such as mathematical biology, systematic biology, thermal biology, cryobiology, and human evolution.

Biophysics 生物物理学

The Biophysics category covers journals that focus on the transfer and effects of physical forces and energy—light, sound, electricity, magnetism, heat, cold, pressure, mechanical forces, and radiation—within and on cells, tissues, and whole organisms.

Biotechnology & Applied Microbiology 生物技术与应用微生物学

The Biotechnology & Applied Microbiology category covers journals that focus on the use of organisms, especially microbes, in the production of foods and drugs; the bioconversion of toxic and unsanitary wastes; and the use of recombinant DNA to produce improved plants and animals and diagnostic products.

Cardiac & Cardiovascular Systems 心脏与心血管系统

The Cardiac & Cardiovascular Systems category includes cardiology journals that deal with the diagnosis and treatment of heart disease. Coverage focuses on cardiac disease prevention, pharmacology, surgery, transplantation, and research. This category also includes journal literature concentrating on cardiac testing, pacemakers, and medical devices. Journals focusing on circulation, hypertension, arterial disease, and stroke are under the category Peripheral Vascular Disease.

Cell Biology 细胞生物学

The Cell Biology category includes journals dealing with all aspects of the structure and function of eukaryotic cells. The principle characteristic of journals in this category is an emphasis on the integration at the cellular level of biochemical, molecular genetic, physiological, and pathological information. This category considers material on specific tissues, differentiated as well as embryonic.

Chemistry 化学

The Chemistry category covers journals that are general in nature and cover a broad spectrum of topics in the chemical sciences. Journals specifically covering analytical chemistry, inorganic and nuclear chemistry, organic chemistry, physical chemistry, and polymer science are classified in those specific categories. Miscellaneous and applied chemistry journals may be placed in this general chemical category when not appropriate for the aforementioned subfields in chemistry.

Chemistry, Analytical 化学, 分析

The Chemistry, Analytical category covers journals that deal with techniques that yield any type of information about chemical systems. It includes chromatography, thermal analysis, chemometrics, separation techniques, pyrolysis, and electroanalytical and radioanalytical chemistry. Some spectroscopy journals may be included in this category depending on the specific focus of the journal.

Chemistry, Applied 化学, 应用

The Chemistry, Applied category contains journals that report on the application of basic chemical sciences to other sciences, engineering, and industry. Topics include chemical engineering (catalysis, fuel processing, microencapsulation, functional polymers); food science and technology (cereals, hydrocolloids, food additives); medicinal chemistry (pharmacology); dyes and pigments; coatings technology; and cosmetics.

Chemistry, Inorganic & Nuclear 化学, 无机物与原子核

The Chemistry, Inorganic category covers journals that are concerned with non-carbon elements and with the preparation, properties, and reactions of their compounds. The category also includes studies on certain simple carbon compounds, including the oxides, carbon disulfide, the halides, hydrogen cyanide, and salts, such as the cyanides, cyanates, carbonates, and hydrogencarbonates. Also included are journals on coordination chemistry and organo-metallic compounds (those containing a carbon-metal bond). The Chemistry, Nuclear category contains those journals on the study of the atomic nucleus, including fission and fusion reactions and their products. This category also covers radiochemistry. Radiochemistry concerns radioactive isotopes of elements, including such topics as the preparation of radioactive compounds, the separation of isotopes by chemical reactions, the use of radioactive labels in studies of mechanisms, and experiments on the chemical reactions and compounds of transuranic elements.

Chemistry, Medicinal 化学, 医用

The Chemistry, Medicinal category includes journals emphasizing the isolation and study of substances with therapeutic potential. Topics cover quantitative structure-function relationships, structural characterization and organic syntheses of naturally occurring compounds, and chemical and analytical techniques used in rational drug design. See also the Pharmacology & Pharmacy category.

Chemistry, Organic 化学, 有机物

The Chemistry, Organic category encompasses the literature that deals with compounds of carbon. Originally, the term "organic" referred to chemical compounds present in living matter, but now it refers to any carbon compound with the exception of certain simple ones, such as the carbon oxides, carbonates, cyanides, and cyanates (see Chemistry, Inorganic & Nuclear). This category includes research on synthetic and natural organic compounds that may include other elements, such as hydrogen, oxygen, nitrogen, halogens, sulfur, and phosphorous. This category also includes research on hydrocarbons. These compounds contain only the elements carbon and hydrogen and include the alkanes, alkenes, alkynes, and aromatics, such as benzene and naphthalene.

Chemistry, Physical 化学, 物理

The Chemistry, Physical category includes those journals covering photochemistry, solid state

chemistry, kinetics, catalysis, quantum chemistry, surface chemistry, electrochemistry, chemical thermodynamics, thermophysics, colloids, fullerenes, and zeolites. This category also covers journals dealing with liquid crystals and crystallography.

Clinical Neurology 临床神经病学

The Clinical Neurology category includes journals that cover all areas of clinical research and medical practice in neurology. The focus is on traditional neurological illnesses and diseases such as dementia, stroke, epilepsy, headache, multiple sclerosis, and movement disorders that have clinical and socio-economic importance. This category also encompasses journals on medical specialties, such as pediatric neurology, neurosurgery, neuroradiology, and neuropsychiatry, that affect neurological diagnosis and treatment.

Computer Science, Artificial Intelligence 计算机科学, 人工智能

The Computer Science, Artificial Intelligence category covers journals that focus on research and techniques to create machines that exhibit such characteristics of human intelligence as efficient representation of knowledge, reasoning, deduction, problem solving, heuristics, and analysis of contradictory or ambiguous information. This category also includes material on artificial intelligence technologies, such as expert systems, fuzzy systems, natural language processing, speech recognition, pattern recognition, computer vision, decision-support systems, knowledge-bases, and neural networks.

Computer Science, Cybernetics 计算机科学, 自动化控制

The Computer Science, Cybernetics category contains journals that focus on the control and information flows within and between artificial (machine) and living or natural systems. Related fields include artificial intelligence and automatic control.

Computer Science, Hardware & Architecture 计算机科学, 硬件与构造

The Computer Science, Hardware & Architecture category contains information on the physical components (hardware) of a computer system, such as chips, cards, boards, computers, disks and other storage media, keyboards, printers, plotters, video equipment, scanners, modems, and so on. This category also encompasses journals on the structure and specifications of the relationship among the parts of a computer system, including chips, circuits, system programs, and operating systems (e.g., open architecture, closed architecture, and complex instruction set computing [CISC] or reduced instruction set computing [RISC] processes).

Computer Science, Information Systems 计算机科学, 信息系统

The Computer Science, Information Systems category encompasses the technology-based literature on information systems concerning the acquisition, processing, storage, management, and dissemination of vocal, pictorial, textual, and numerical information through a combination of computing and telecommunications systems. This category also includes some discipline-specific journals, such as medical informatics, chemical information, geographical information systems, information science, and library science.

Computer Science, Interdisciplinary Applications 计算机科学, 交叉学科应用

The Computer Science, Interdisciplinary Applications category contains journals that broadly focus on

the application of computer technology and methodology to other disciplines, such as information management, engineering, biology, medicine, environmental studies, geosciences, arts and humanities, agriculture, chemistry, and physics. Journals selected for coverage in this category have the use of computers or computational methods as a primary focus of their scope.

Computer Science, Software, Graphics, Programming 计算机科学, 软件, 图解计算, 程序

The Computer Science, Software, Graphics, Programming category contains journals that report on computer software, the programmed instructions that allow the hardware to work, with an emphasis on application software, network software, language software, and software engineering. Journals selected for this category also focus on computer graphics, the generation, display, processing, and storage of non-textual information or images. An additional topic covered is programming languages, the artificial languages that can be used to define a sequence of instructions that ultimately can be processed by a computer.

Computer Science, Theory & Methods 计算机科学, 理论与方法

The Computer Science, Theory & Methods category covers journals that emphasize specialized computer processing methods or programming techniques such as parallel computing, distributed computing, logic programming, object-oriented programming, high-speed computing, image and vision computing, supercomputing, and signal processing. This category also contains journals that cover broad computer systems and theoretical and practical methodology.

Construction & Building Technology 建筑与构造技术

The Construction & Building Technology category is an eclectic field that draws from civil engineering, materials science, and metallurgy. It includes journals that provide information on the physical features and design of structures and the materials used to construct them. Other topics covered in this category include heating and air conditioning, energy systems, and indoor air quality.

Crystallography 结晶学

The Crystallography category covers journals that This category also includes material on X-ray crystallography, the study of the internal structure of crystals through the use of X-ray diffraction.

Dentistry, Oral Surgery & Medicine 牙科, 口腔外科与医疗

The Dentistry, Oral Surgery & Medicine category covers journals that focus on the anatomy, physiology, biochemistry, and pathology of the teeth and oral cavity. This category includes specific journals on periodontal disease, dental implants, oral and maxillofacial surgery, oral pathology, and oral surgery. There is additional coverage on community dentistry, public health dentistry, and pediatric dentistry.

Dermatology & Venereal Diseases 皮肤病学与性病

The Dermatology & Venereal Diseases category covers journals that focus on the anatomy, physiology, and pathology of the skin. It contains journals on investigative and experimental dermatology, contact dermatitis, dermatologic surgery, dermatologic pathology, dermatologic oncology, and venereal diseases. This category also includes specific journals on burns, wounds, and leprosy.

Developmental Biology 发育生物学

The Developmental Biology category includes journals focused on the specific mechanisms of cell, tissue, and organism development, as well as gametogenesis, fertilization, biochemistry and molecular genetic control of development, cell biology of gametes and zygotes, and embryology.

Ecology 生态学

The Ecology category covers journals in many subjects relating to the study of the interrelationship of organisms and their environments, including ecological economics, ecological engineering, ecotoxicology, ecological modeling, evolutionary ecology, biogeography, chemical ecology, marine ecology, wildlife research, microbial ecology, molecular ecology, and population ecology. This category also includes general ecology journals and journals devoted to particular ecological systems.

Education, Scientific Disciplines 教育, 科学学科

The Education, Scientific Disciplines category covers all education journals in the scientific disciplines, such as biology, pharmacy, biochemistry, engineering, chemistry, nutrition, and medicine.

Electrochemistry 电化学

The Electrochemistry category covers journals that deal with the chemical changes produced by electricity and the generation of electricity by chemical reactions. Applications include dry cells, lead plate, storage batteries, electroplating, electrodeposition (electrolysis), purification of copper, production of aluminum, fuel cells, and corrosion of metals.

Emergency Medicine & Critical Care 急救与危象监护

The Emergency Medicine & Critical Care category covers journals focusing on accident and emergency medicine. This category also contains journals on anesthesia, critical care, intensive care, injury, trauma, burn treatment, and resuscitation.

Endocrinology & Metabolism 内分泌学与代谢

The Endocrinology & Metabolism category includes journals focused on endocrine glands; the regulation of cell, organ, and system function by the action of secreted hormones; the generation and chemical/biological properties of these substances; and the pathogenesis and treatment of disorders associated with either source or target organs. This category also includes journals that focus on neuroendocrinology, reproductive endocrinology, pancreatic hormones and diabetes, regulation of bone formation and loss, and control of growth.

Energy & Fuels 能量与燃料

The Energy & Fuels category covers material on the development, production, use, application, conversion, and management of nonrenewable (combustible) fuels (such as wood, coal, petroleum, and gas) and renewable energy sources (solar, wind, biomass, geothermal, and hydroelectric). Journals dealing with nuclear energy and nuclear technology appear in the Nuclear Science & Technology category.

Engineering 工程

The Engineering category, in its broadest sense, is defined as the application of mathematics and

science to generate useful structures, machines, products, systems, and processes. This category contains engineering journals with a broad, general scope, as well as those journals that do not fit neatly into any of the other engineering categories. Examples of topics include computer science and mathematics in engineering, aquacultural engineering, agricultural engineering, combustion and fuel science and technology, reliability studies, audio engineering, and nanotechnology.

Engineering, Biomedical 工程, 生物医学

The Engineering, Biomedical category covers journals that apply engineering technology to solving medical problems. The category spans a wide range of applications including applied biomechanics, biorheology, medical imaging, medical monitoring equipment, artificial organs, and implanted materials and devices.

Engineering, Chemical 工程, 化学

The Engineering, Chemical category encompasses those journals that present material on the chemical conversion of raw materials into a variety of products. Topic areas include chemical reaction engineering, which involves the design and use of chemical reactors based on an understanding of the chemical and physical properties of the raw materials. Work in this area draws from several disciplines, including thermodynamics, applied chemistry, and applied physics. This category also contains journals that deal with the design and operation of efficient and cost-effective plants and equipment for the production of the various end products.

Engineering, Civil 工程, 市政

The Engineering, Civil category covers the engineering-based literature on the subfields of structural engineering, geotechnics, earthquake engineering, ocean engineering, water resources and supply, naval engineering, marine engineering, transportation engineering, and municipal engineering.

Engineering, Electrical & Electronic 工程, 电力与电子

The Engineering, Electrical & Electronic category contains journals that deal with the applications of electricity, with a focus on those involving current flow through conductors. This category also contains literature on the examination of the conduction of electricity through gases or a vacuum as well as through semiconducting materials. Topics include image and signal processing, electromagnetics, electronic components and materials, microwave technology, and microelectronics.

Engineering, Environmental 工程, 环境

The Engineering, Environmental category includes journals that discuss the effects of human beings on the environment and the development of controls to minimize environmental degradation. Topics found in this category include water pollution control, air pollution control, hazardous waste management, land reclamation, pollution prevention, bioremediation, incineration, management of sludge problems, landfill and waste repository design and construction, facility decommissioning, and environmental policy and compliance.

Engineering, Geological 工程, 地质

The Engineering, Geological category includes the multidisciplinary literature that encompasses the knowledge and experience drawn from both the geosciences and various engineering disciplines, primarily