

The University of Manchester Library Content Development Policy Chemical Engineering & Analytical Science

Monday, 30 April 2012

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Introduction

This document presents the Content Development Policy for the School of Chemical Engineering and Analytical Science (CEAS) and includes a description of the Library's existing collections and an outline of current collecting areas.

Set within the context provided by an overall [Content Development Policy](#) and a related [Collection Management Policy](#), its purpose is to ensure that the selection of resources – books, journals, and other kinds of material – whether print, electronic or other format, reflect the teaching and research priorities of the School and provide best value in both financial and academic terms.

Collection evaluation

The Library has extensive collections in chemical engineering specifically, and in all related fields of study. The resources that make up the collections comprise books and journals in print and electronic format, and bibliographic and reference databases. The principal collections of printed books in chemical engineering are located in the Joule Library, Sackville Street Building on the North Campus.

Also, collections in related areas of study such as heat transfer and thermodynamics, process control, fluid flow, and chemistry, are also located at the Joule. Additionally, the university's principal Chemistry collection, segments of which are relevant to chemical engineering, is located on Blue 2 in the Main Library.

Core chemical engineering books are shelved at 660-665.81. The class numbers of related subject collections can be found on the Library website in the [Chemical Engineering & Analytical Science subject page](#).

[Appendix 1](#) provides an overview of the chemical engineering and analytical science (CEAS) bookstock by classmark, date of publication, and location.

[Appendix 2](#) lists the books purchased from the chemical engineering bookfund during the 2009-10 financial year, excluding items purchased as part of other subscriptions.

[Appendix 3](#) lists current journal subscriptions in the area of chemical engineering. Because of the difficulties in deciding on what constitutes a chemical engineering journal, it is not necessarily a complete list. However all journal holdings and subscriptions are listed in the Library catalogue, and all subscriptions to electronic journals are listed in its E-Journals A-Z listing.

[Appendix 4](#) lists other relevant subscriptions to bibliographic databases and book collections in the area.

Bookfund and resource allocations

Bookfunds are allocated in June/July each year for the following financial year (August – July). This bookfund is to provide for all non-subscription library materials including printed textbooks and research monographs, electronic books, and any other one-off purchase requirements.

Journals and other subscription items are purchased from a separate fund which at present accounts for over 85% of the cost of all purchases.

Collection areas

To support the School's scholarly and research activities the Library will acquire material published in the areas listed below.

Biotechnology and Environment, including:

- Biocatalysis
- Biochemical engineering
- Biofuels
- Environmental engineering
- Self-sustaining biological systems
- Sustainable resource management

Chemical Engineering, including:

- Catalysis
- Chemical plant instrumentation
- Chemical processes
- Distillation
- High pressure technology
- Industrial chemicals
- Multi-scale and multi-phase systems
- Plant design
- Process control
- Process design and integration
- Separation science

Engineering Mathematics

Fluid mechanics and dynamics

Measurement Science

Petroleum Engineering

Thermodynamics and Heat Exchange

Document Supply Service and Inter-Library Loans

Although the Library will try to accommodate all requests for purchase, books which lie outside the areas listed above or are out of print can be obtained on loan from another library through the [Document Supply Service](#). Such books are usually borrowable for up to 6 weeks at a time. Journal articles and other material not available from within the Library's collections can also be obtained through this service.

Teaching and Learning

The Library will support all taught course modules.

Multiple copies and / or electronic copies of texts will be purchased or subscribed to as appropriate. Subject to copyright restrictions the Library will digitise materials, for instance book chapters, or journal articles not otherwise available electronically, if required for taught course modules.

Reading lists and estimated student numbers should be sent to the Faculty Team Librarian by **July 31** and **November 30** each year so any new material can be purchased and processed in time for the forthcoming semester.

The Library's software package [Link2Lists](#) affords the opportunity of creating multi-media **resource lists**. Hyperlinks to audio files, video clips, podcasts and the like can all be included in a resource list alongside traditional bibliographic references to print material, e-books and journal articles, which can link directly through to entries in the Library catalogue. Library staff can provide training and support to academic staff interested in using Link2Lists software (rather than a traditional word processing package), and embedding resource lists into Blackboard courses.

Reading list texts can be 7-day loan or put into the [High Demand Collection](#) from where they can be borrowed for shorter periods, but past experience has shown that normal loan (28 days for undergraduates) is the preferred and most effective option for chemical engineering texts.

Digitisation

Subject to copyright restrictions the Library will digitise material according to its [Digitisation Policy](#). Priorities include reading list items – book chapters or journal papers – and items from Special Collections.

Manchester e-Scholar

The University's institutional repository, [Manchester eScholar](#), manages and disseminates the intellectual outputs of the university. Since the beginning of 2010 all accepted PhD theses have been added to the repository.

Stock editing

Most stock is kept on the Library's open shelves. As space is at a premium, especially in the Main Library, periodic weeding is used to remove less-well used material to store from where it can be retrieved usually within one working day. [[Store requests](#)]

Unused duplicates are disposed of from time to time.

Weeding and withdrawal criteria are described in the [Collection Management Policy](#).

Donations

Offers of donations are welcome, but they can normally only be considered for acceptance if they are within the collection areas detailed above.

Other factors taken into account in deciding upon acceptance are listed in the [Collection Management Policy](#).

Recommendations

The Library welcomes recommendations for the purchase of books from staff and students of the School. Purchases are normally made if:

- Recommendations fall within the scope of the policy as described above;
- Funds are available;
- The item is not already in stock.

Usually:

- Only a single copy of a printed book is purchased;
- Books must normally be written in English;
- They must be of an appropriate academic standard.

For reading list texts, multiple copies and electronic versions will be considered as appropriate. For chemical engineering titles that are in particularly heavy demand, the Library will purchase multiple print copies *in addition to* an electronic version (if available).

Recommendations can be made directly to the Faculty Team Librarian, or by filling in [this form](#).

Journal recommendations are considered twice a year in **March** and **November**. Because of the forward financial commitment involved journal subscriptions usually have to be balanced by savings elsewhere in the subscription budget. Recommendations should be made through the School Library Representative.

Contacts

Faculty Team Librarian, Chemical Engineering & Analytical Science:

John Blunden-Ellis

0161-275-8729

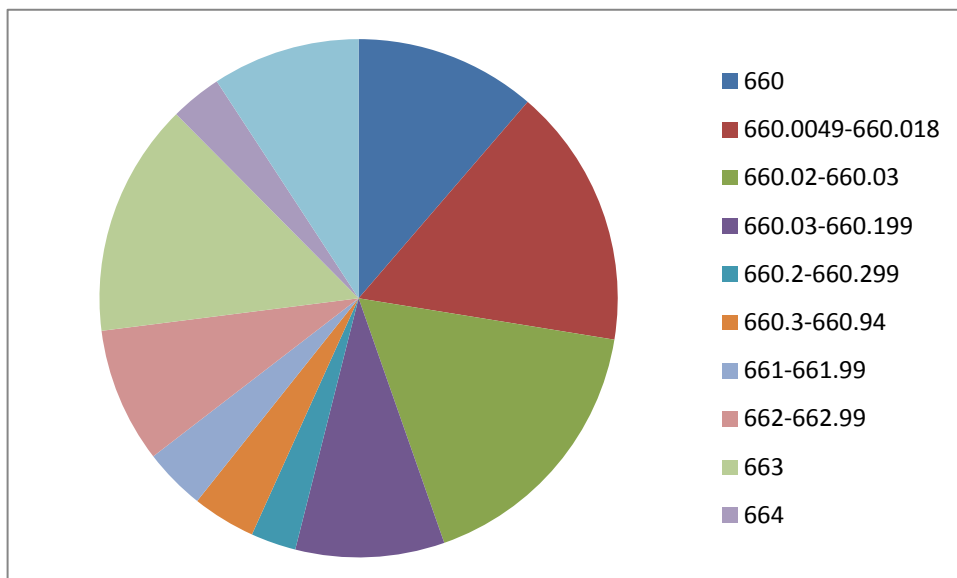
j.blunden-ellis@manchester.ac.uk

School of Chemical Engineering & Analytical Science, Library Representative:

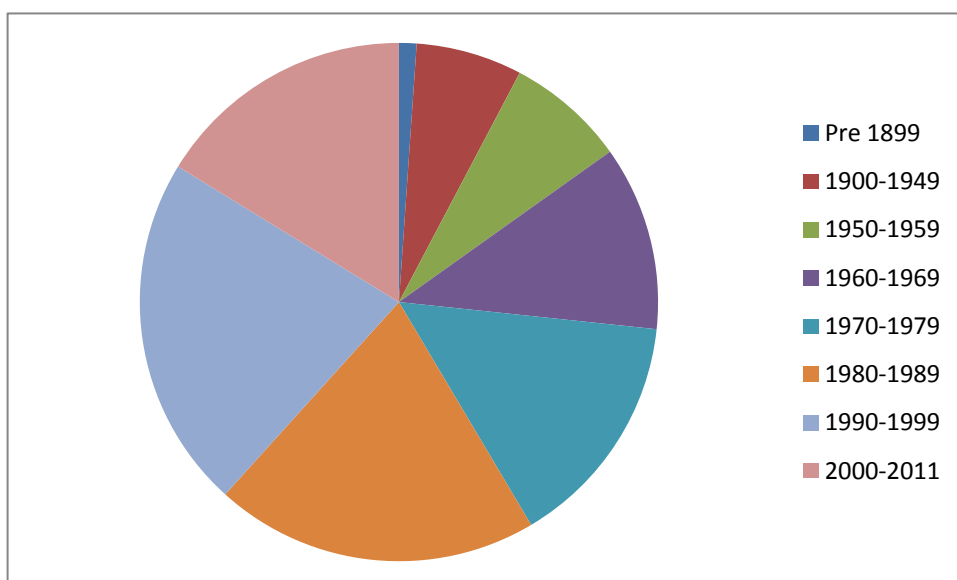
Appendices

Appendix 1 - Chemical engineering stock overview

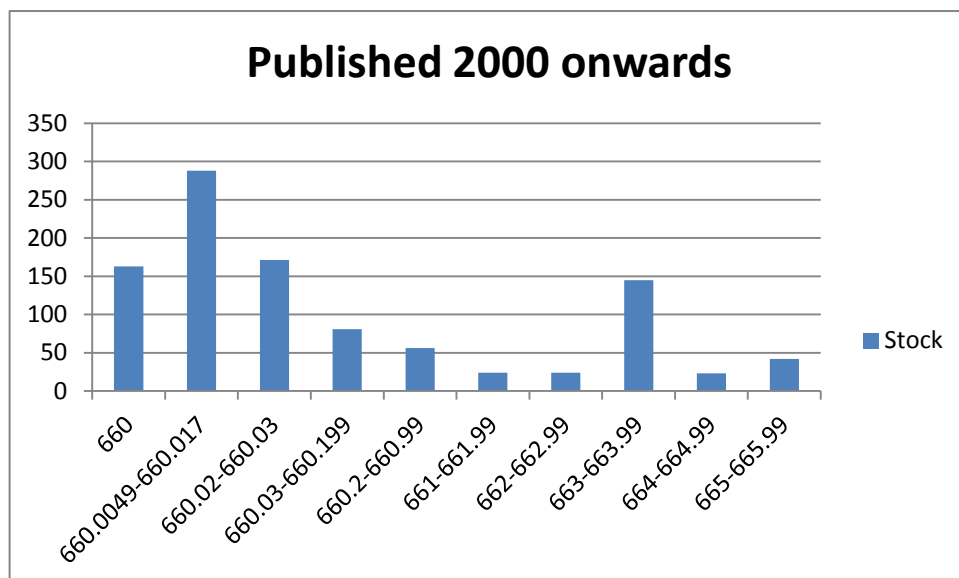
1.1 Chemical Engineering Stock by Subject Classification



1.2 Chemical Engineering Stock by Date of Publication



1.3 Chemical Engineering stock by Subject Classification (Published 2000 onwards)



Appendix 2 - Chemical Engineering Book Titles Purchased in 2009-10

Albright, L	Novel production methods for ethylene, light hydrocarbons and aromatics	CRC
Aguilar, M (ed)	Solvent extraction and liquid membranes	CRC
AIChE	Safety in ammonia plants and related facilities vol 47 2006	AIChE
AIChE	Safety in ammonia plants and related facilities vol 48 2007	AIChE
AIChE	Safety in ammonia plants and related facilities vol 49 2008	AIChE
AIChE	Safety in ammonia plants and related facilities vol 50 2009	AIChE
Alexiades, V	Mathematical modeling of melting and freezing processes	Taylor & Francis
Anderson, NA	Instrumentation for process measurement and control	CRC
Azapagic, A	Sustainable development in practice	Wiley
Bagajewicz, MJ	Process plant instrumentation design and upgrade	Technomic
Ballini, R (ed)	Eco-friendly synthesis of fine chemicals	RSC
Basu, B	Advanced biomaterials: fundamentals, processing & applications	Wiley
Blanch, HW	Biochemical engineering	Dekker
Bott, TR	Fouling of heat exchangers	Elsevier
Brown, T	Engineering economics and economic design for process engineers	CRC
Cardona, CA	Process synthesis for fuel ethanol production	CRC
CCPS	Guidelines for chemical reactivity evaluation and application to process	Wiley
Centi, G (ed)	Catalysis for renewables: from feedstock to energy production	Wiley
Centi, G (ed)	Sustainable industrial chemistry	Wiley
Cheng, J	Biomass to renewable energy processes	CRC
Cheremisinof, NP	Biomass and bio-refining	CRC
Cheremisinof, NP	Chemical engineer's condensed encyclopedia of process equipment	Gulf
Chimowitz, EH	Introduction to critical phenomena in fluids	OUP
Coronell, DG	Introduction to MATLAB with applications for chemical engineers	CRC
Darby, R	Chemical engineering fluid mechanics	Dekker
Datta, A	Process engineering and design using Visual Basic	CRC
Daubert, TE	Chemical engineering thermodynamics	McGraw-Hill
Davis, BH (ed)	Advances in Fischer-Tropsch synthesis, catalysts and catalysis	CRC
De Nevers, N	Fluid mechanics for chemical engineers	McGraw-Hill

de Souza-Santos, M	Solid fuel combustion and gasification	CRC
DeKee, D	Transport processes in bubbles, drops and particles	CRC
Deublein, D	Biogas from waste and renewable resources	WileyVCH
Dorsey, J	Continuous and discrete control systems	McGraw-Hill
Dutton, KR	Art of control engineering	Addison-Wesley
Edgar, TF	Optimization of chemical processes	McGraw-Hill
Elnashaie, S	Conservation equations and modeling of chemical and biochemical processes	Dekker
Elnashaie, S	Conservation equations and modeling of chemical and biochemical processes	Dekker
Englezos, P	Applied parameter estimation for chemical engineers	Dekker
Erickson, KT	Plant-wide process control	Wiley
Farmer, RC	Computational transport phenomena for engineering analyses	CRC
Felder, RM	Elementary principles of chemical processes	Wiley
Ferrauto, RJ	Fundamentals of industrial catalytic processes	Wiley
Fogler, HS	Elements of chemical reaction engineering	Pearson
Garrett, PR (ed)	Defoaming: theory and industrial applications	Dekker
Greaves, M	Cancer - the evolutionary legacy	OUP
Hagen, J	Industrial catalysis: a practical approach	Wiley VCH
Hahn, BD	Essential MATLAB for engineers and scientists	Elsevier
Haider, SI	Biotechnology	CRC
Harriott, P	Chemical reactor design	Dekker
Himmelblau, DM	Basic principles and calculations in chemical engineering	Pearson
Hoogers, G	Fuel cell technology handbook	Soc Automot Eng
Hordeski, MF	Alternative fuels	CRC
Hunkeler, D	Environmental life cycle costing	CRC
Igbinoghene, D	Chemical process calculations manual	McGraw
Israelachvili, JN	Intermolecular and surface forces	Academic Press
Janna, WS	Engineering heat transfer	CRC
Jensen, VG	Mathematical methods in chemical engineering	Elsevier
Kalinin, EK	Efficient surfaces for heat exchangers. Fundamentals and design	Begell House
Kaneko, M	Photocatalysis: science and technology	
Kato, S	Biochemical engineering: a textbook for engineers chemists & biologists	Wiley
Kerry, FG	Industrial gas handbook	CRC
Kim, SH	Biomolecular catalysis: nanoscale science and technology	ACS
King, PL	Lean for the process industries	Productivity Press

Kirk-Othmer	Kirk-Othmer separation technology, 2 vols	Wiley
Kojic, M	Computer modeling in bioengineering	Wiley
Larmine, JC	Fuel cell systems explained	Wiley
Lee, S	Alternative fuels	Taylor & Francis
Levenspiel, O	Chemical reaction engineering	Wiley
Lieuwen, T (ed)	Synthesis gas combustion	CRC
Liptak, BG	Optimization of unit operations	CRC
Lloyd, L	Handbook of industrial catalysts	Springer
Logan, BE	Microbial fuel cells	Wiley
Lyons, WC	Working guide to petroleum and natural gas production engineering	Blackwell
MacKay, DJC	Sustainable energy - without the hot air	Gulf
Macosko, CW	Rheology: principles measurement and applications	Wiley
Majozi, T	Batch chemical process integration	Blackwell
Marlin, TE	Process control	Springer
Mattiasson, B	Macroporous polymers: production properties and biotechnological applications	McGraw-Hill
Mishra, N	Bioseparation technology	CRC Press
Mizrahi, J	Developing an industrial chemical process	CRC
Morris, AS	The essence of measurement	CRC
Mosier, NS	Modern biotechnology: connecting innovations in microbiology	Prentice Hall
Moulijn, JA	Chemical process technology	Wiley
Murphy, RM	Introduction to chemical processes	Wiley
Navarrete, PF	Planning, estimating and control of chemical construction projects	McGraw-Hill
Neumann, W (ed)	Applied surface thermodynamics	CRC
Peters, MH	Real-time biomolecular simulations	Dekker
Peters, MS	Plant design and economics for chemical engineers	McGraw-Hill
Peters, MS	Plant design and economics for chemical engineers	McGraw-Hill
Plawsky, JL	Transport phenomena fundamentals	McGraw-Hill
Pollak, P	Fine chemicals: the industry and the business	CRC
Regalbuto, J	Handbook of catalyst preparation	CRC
Regtien, PPL	Measurement science for engineers	Elsevier
Riggs, JB	Chemical and bio-process control	Pearson
Rubinstein, M	Polymer physics	OUP
Rushton, A	Introduction to solid-liquid filtration and separation technology	VCH
Russell, TWF	Mass and heat transfer	CUP

Salmi, TO	Chemical reaction engineering and reactor technology	CRC
Sammells, AF (ed)	Nonporous inorganic membranes for chemical processing	Wiley
Sandler, SI	Chemical, biochemical and engineering thermodynamics	Wiley
Scott, DM	Industrial process sensors	CRC
Seborg, DE	Process dynamics and control	Wiley
Seferlis, P (ed)	The integration of process design and control	Elsevier
Sheldon, RA	Chemicals from synthesis gas	Kluwer
Sherman, RE	Analytical instrumentation	ISA
Shinners, SM	Advanced modern control system theory and design	Wiley
Simons, S (ed)	Concepts of chemical engineering 4 chemists	RSC
Skogestad, S	Chemical and energy process engineering	CRC
Skoog, DA	Principles of instrumental analysis	Brooks/Col e
Smirnov, H	Transport phenomena in capillary-porous structures and heat pipes	CRC
Smith, CA	Automated continuous process control	Wiley
Smith, JM	Introduction to chemical engineering thermodynamics	McGraw- Hill
Smith, R	Chemical processes: design and integration	Wiley
Smolke, C	Metabolic pathway engineering handbook, 2 vols	CRC
Spasic, A	Finely dispersed particles	Taylor & Francis
Stephanopoulos, G	Chemical process control: an introduction to theory and practice	Pearson
Sun, RC	Cereal straw as a resource for sustainable biomaterials and biofuels	Elsevier
Sutherland, K	Filters and filtration handbook	Elsevier
Tarleton, S	Solid/liquid separation: equipment selection and process design	Elsevier
Tattersson, GB (ed)	Industrial mixing technology: chemical and biological applications	AIChE
Tien, C-L	Molecular and microscale heat transfer	Begell House
Trambouze, P	Chemical reactors from design to operation	Technip
Turton, R	Analysis synthesis and design of chemical processes	Prentice Hall
Ulrich, GD	Chemical engineering process design and economics	CRC
Van't Land, K	Industrial crystallization of melts	Dekker
Vickerman, JC	ToF-SIMS: surface analysis by mass spectroscopy	IM Publication s
Welty, J	Fundamentals of momentum, heat and mass transfer 5th ed	Wiley
White, FM	Fluid mechanics	McGraw Hill
Wronski, S	Numerical problems in thermodynamics and kinetics of chemical engineering	Begell House

Appendix 3 - Journals relevant to Chemical Engineering held in the JRUL

ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY
ACTA BIOTECHNOLOGICA
ACTA CRYSTALLOGRAPHICA SECTION B-STRUCTURAL SCIENCE
ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE
ACTA MATERIALIA
ADVANCED FUNCTIONAL MATERIALS
ADVANCED MATERIALS
ADVANCED MATERIALS AND COMPOSITES NEWS
ADVANCED MATERIALS AND PROCESSES
ADVANCED MATERIALS FOR OPTICS AND ELECTRONICS
ADVANCED MATERIALS RESEARCH
ADVANCES IN CHEMICAL ENGINEERING
ADVANCES IN MATHEMATICAL FLUID MECHANICS
AIChE JOURNAL
AMERICAN JOURNAL OF PHYSICS
ANALYST
ANALYTICA CHIMICA ACTA
ANALYTICAL AND BIOANALYTICAL CHEMISTRY
ANALYTICAL BIOCHEMISTRY
ANALYTICAL CHEMISTRY
ANALYTICAL COMMUNICATIONS
ANALYTICAL LETTERS
ANALYTICAL PROCEEDINGS
ANALYTICAL SCIENCES
ANNUAL REVIEW OF FLUID MECHANICS
ANNUAL REVIEW OF MATERIALS SCIENCE
ANGEWANDTE CHEMIE-INTERNATIONAL EDITION
APPLIED CATALYSIS A-GENERAL
APPLIED CATALYSIS B-ENVIRONMENTAL
APPLIED MICROBIOLOGY AND BIOTECHNOLOGY
APPLIED OPTICS
APPLIED PHYSICS B
APPLIED RADIATION AND ISOTOPES
APPLIED SCIENTIFIC RESEARCH
APPLIED SPECTROSCOPY
APPLIED SURFACE SCIENCE
APPLIED THERMAL ENGINEERING
ASIA-PACIFIC JOURNAL OF CHEMICAL ENGINEERING
ATMOSPHERIC CHEMISTRY AND PHYSICS
ATMOSPHERIC ENVIRONMENT
AUSTRALIAN JOURNAL OF CHEMISTRY
BIOCATALYSIS AND BIOTRANSFORMATION
BIOCHEMICAL ENGINEERING JOURNAL

BIOCHEMICAL SOCIETY TRANSACTIONS
BIOCHEMISTRY
BIOFUELS BIOPRODUCTS AND BIOREFINING
BIOMEDICAL MATERIALS
BIOMEMS AND NANOTECHNOLOGY III
BIOPHYSICAL JOURNAL
BIORESOURCE TECHNOLOGY
BIOSENSORS & BIOELECTRONICS
BIOTECHNOLOGY FOR BIOFUELS
BIOTECHNOLOGY LETTERS
BIOTECHNOLOGY PROGRESS
BRAZILIAN JOURNAL OF CHEMICAL ENGINEERING
CANADIAN JOURNAL OF CHEMICAL ENGINEERING
CANADIAN JOURNAL OF PHYSICS
CARBON
CATALYSIS COMMUNICATIONS
CATALYSIS LETTERS
CATALYSIS TODAY
CELLULOSE
CHEMBIOCHEM
CHEMICAL AND ENGINEERING DATA SERIES
CHEMICAL AND ENGINEERING NEWS
CHEMICAL AND PETROLEUM ENGINEERING
CHEMICAL COMMUNICATIONS
CHEMICAL ENGINEER
CHEMICAL ENGINEERING
CHEMICAL ENGINEERING AND PROCESSING
CHEMICAL ENGINEERING AND TECHNOLOGY
CHEMICAL ENGINEERING COMMUNICATIONS
CHEMICAL ENGINEERING JOURNAL
CHEMICAL ENGINEERING JOURNAL AND BIOCHEMICAL ENGINEERING JOURNAL
CHEMICAL ENGINEERING PROGRESS
CHEMICAL ENGINEERING RESEARCH & DESIGN
CHEMICAL ENGINEERING SCIENCE
CHEMICAL ENGINEERING TRANSACTIONS
CHEMICAL PHYSICS LETTERS
CHEMICAL REVIEWS
CHEMICAL SOCIETY REVIEWS
CHEMICAL VAPOR DEPOSITION
CHEMISTRY - A EUROPEAN JOURNAL
CHEMISTRY IN BRITAIN
CHEMISTRY OF MATERIALS
CHEMISTRY WORLD
CHEMISTRY-A EUROPEAN JOURNAL
CHEMPHYSICHEM
CHILTON'S I & CS - THE INDUSTRIAL AND PROCESS CONTROL MAGAZINE

CHINESE JOURNAL OF CHEMICAL ENGINEERING
CLAY MINERALS
CLEAN TECHNOLOGIES AND ENVIRONMENTAL POLICY
COLLOIDS AND SURFACES A
COMPUTATIONAL FLUID AND SOLID MECHANICS
COMPUTER PHYSICS COMMUNICATIONS
COMPUTERIZED TOMOGRAPHY
COMPUTERS & CHEMICAL ENGINEERING
COMPUTERS AND CHEMICAL ENGINEERING
CONTROL AND INSTRUMENTATION
CONTROL ENGINEERING INTERNATIONAL
CONTROL SOLUTIONS
COORDINATION CHEMISTRY REVIEWS
CRITICAL REVIEWS IN BIOTECHNOLOGY
CRITICAL REVIEWS IN COMPUTED TOMOGRAPHY
CRYSTAL GROWTH & DESIGN
CRYSTENGGCOMM
CURRENT APPLIED PHYSICS
CURRENT MICROBIOLOGY
CURRENT OPINION IN SOLID STATE & MATERIALS SCIENCE
DESALINATION
DOCKLADY. CHEMICAL TECHNOLOGY
EDUCATION FOR CHEMICAL ENGINEERS
ELECTROANALYSIS
ELECTROCHEMISTRY COMMUNICATIONS
ELECTROCHIMICA ACTA
ELECTRONICS LETTERS
ENERGY
ENERGY & FUELS
ENERGY AND ENVIRONMENTAL SCIENCE
ENERGY POLICY
ENERGY RESOURCE ENVIRONMENTAL AND SUSTAINABLE MANAGEMENT
ENVIRONMENTAL FLUID MECHANICS
ENVIRONMENTAL POLLUTION
ENVIRONMENTAL PROGRESS
ENVIRONMENTAL SCIENCE & POLICY
ENVIRONMENTAL SCIENCE AND TECHNOLOGY
ENZYME AND MICROBIAL TECHNOLOGY
EPIDEMIOLOGY
EPL
EUROPEAN JOURNAL OF INORGANIC CHEMISTRY
EUROPEAN JOURNAL OF MECHANICS B, FLUIDS
EUROPEAN PHYSICAL JOURNAL
EUROPEAN PHYSICAL JOURNAL B
EUROPEAN PHYSICAL JOURNAL C
EUROPEAN PHYSICAL JOURNAL E
EUROPHYSICS LETTERS

EXPERIMENTAL FLUID MECHANICS
EXPERIMENTAL HEAT TRANSFER
EXPERIMENTAL THERMAL AND FLUID SCIENCE
FARADAY DISCUSSIONS
FEBS LETTERS
FILTRATION AND SEPARATION
FLOW MEASUREMENT AND INSTRUMENTATION
FLUID DYNAMICS RESEARCH
FLUID MECHANICS AND APPLICATIONS
FLUID PHASE EQUILIBRIA
FOCUS ON BIOTECHNOLOGY
FOOD AND BIOPRODUCTS PROCESSING
FOOD CHEMISTRY
FOOD MICROBIOLOGY
FOOD RESEARCH INTERNATIONAL
FOUNDATIONS AND TRENDS IN TECHNOLOGY INFORMATION AND OPERATIONS
MANAGEMENT
GAS SEPARATION AND PURIFICATION
GREEN CHEMISTRY
HEAT AND MASS TRANSFER
HEAT RECOVERY SYSTEMS AND CHP
HEAT TRANSFER - ASIAN RESEARCH
HEAT TRANSFER ENGINEERING
HIGHER EDUCATION IN CHEMICAL ENGINEERING
HYDROMETALLURGY
IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT
IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES
INDUSTRIAL AND ENGINEERING CHEMISTRY FUNDAMENTALS
INDUSTRIAL AND ENGINEERING CHEMISTRY PRODUCT RESEARCH AND DEVELOPMENT
INDUSTRIAL AND ENGINEERING CHEMISTRY RESEARCH
INDUSTRIAL METROLOGY
INORGANIC CHEMISTRY
INORGANIC MATERIALS
INSTITUTION OF CHEMICAL ENGINEERS SYMPOSIUM SERIES
INSTRUMENTATION AND CONTROL SYSTEMS
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER
INTERNATIONAL JOURNAL OF CHEMICAL REACTOR ENGINEERING
INTERNATIONAL JOURNAL OF ELECTRICAL ENGINEERING EDUCATION
INTERNATIONAL JOURNAL OF ENVIRONMENT AND POLLUTION
INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY
INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER
INTERNATIONAL JOURNAL OF HEAT AND FLUID FLOW
INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES
INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN FLUIDS
INTERNATIONAL JOURNAL OF NUMERICAL METHODS FOR HEAT AND FLUID FLOW
INTERNATIONAL JOURNAL OF SUSTAINABLE DEVELOPMENT AND WORLD ECOLOGY

INTERNATIONAL JOURNAL OF TESTING
JAPANESE NEW MATERIALS ELECTRONIC MATERIALS
JOURNAL DE PHYSIQUE IV
JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY
JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY
JOURNAL OF APPLIED ELECTROCHEMISTRY
JOURNAL OF APPLIED MATHEMATICS
JOURNAL OF APPLIED MICROBIOLOGY
JOURNAL OF BIOLOGICAL INORGANIC CHEMISTRY
JOURNAL OF BIOMEDICAL OPTICS
JOURNAL OF BIOTECHNOLOGY
JOURNAL OF CATALYSIS
JOURNAL OF CELLULAR PLASTICS
JOURNAL OF CHEMICAL AND ENGINEERING DATA
JOURNAL OF CHEMICAL ENGINEERING OF JAPAN
JOURNAL OF CHEMICAL PHYSICS
JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY
JOURNAL OF CHINA UNIVERSITY OF PETROLEUM
JOURNAL OF CHROMATOGRAPHY
JOURNAL OF CHROMATOGRAPHY A
JOURNAL OF CLEANER PRODUCTION
JOURNAL OF COATINGS TECHNOLOGY AND RESEARCH
JOURNAL OF COLLOID AND INTERFACE SCIENCE
JOURNAL OF COMPUTATIONAL CHEMISTRY
JOURNAL OF COMPUTED TOMOGRAPHY
JOURNAL OF COMPUTER ASSISTED TOMOGRAPHY
JOURNAL OF CONTROL SCIENCE AND ENGINEERING
JOURNAL OF CRYSTAL GROWTH
JOURNAL OF DYNAMIC SYSTEMS MEASUREMENT AND CONTROL
JOURNAL OF ELECTROANALYTICAL CHEMISTRY
JOURNAL OF ELECTRON SPECTROSCOPY AND RELATED PHENOMENA
JOURNAL OF ENERGY RESOURCES TECHNOLOGY
JOURNAL OF ENHANCED HEAT TRANSFER
JOURNAL OF ENVIRONMENTAL MONITORING
JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART A
JOURNAL OF FLUID MECHANICS
JOURNAL OF FLUID MECHANICS DIGITAL ARCHIVE
JOURNAL OF FLUIDS AND STRUCTURES
JOURNAL OF FLUIDS ENGINEERING - TRANSACTIONS OF THE ASME
JOURNAL OF FOOD ENGINEERING
JOURNAL OF HAZARDOUS MATERIALS
JOURNAL OF HEAT RECOVERY SYSTEMS
JOURNAL OF HEAT TRANSFER
JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY
JOURNAL OF INORGANIC BIOCHEMISTRY
JOURNAL OF INSTRUMENTATION
JOURNAL OF LOSS PREVENTION IN THE PROCESS INDUSTRIES

JOURNAL OF MATERIALS CHEMISTRY
JOURNAL OF MATERIALS RESEARCH
JOURNAL OF MATERIALS SCIENCE. MATERIALS IN MEDICINE
JOURNAL OF MATHEMATICAL FLUID MECHANICS
JOURNAL OF MEMBRANE SCIENCE
JOURNAL OF MICROMECHANICS AND MICROENGINEERING
JOURNAL OF MODERN OPTICS
JOURNAL OF MOLECULAR GRAPHICS AND MODELLING
JOURNAL OF MOLECULAR MODELING
JOURNAL OF MOLECULAR STRUCTURE - THEOCHEM
JOURNAL OF NON-NEWTONIAN FLUID MECHANICS
JOURNAL OF OPTICS A
JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING
JOURNAL OF PHARMACEUTICAL SCIENCES
JOURNAL OF PHYSICAL CHEMISTRY
JOURNAL OF PHYSICAL CHEMISTRY A
JOURNAL OF PHYSICAL CHEMISTRY B
JOURNAL OF PHYSICAL CHEMISTRY C
JOURNAL OF PHYSICAL ORGANIC CHEMISTRY
JOURNAL OF PHYSICS - CONDENSED MATTER
JOURNAL OF PHYSICS E - SCIENTIFIC INSTRUMENTS
JOURNAL OF POWER SOURCES
JOURNAL OF PROCESS CONTROL
JOURNAL OF RESEARCH OF THE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY
JOURNAL OF SEPARATION SCIENCE
JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY
JOURNAL OF THE CHEMICAL SOCIETY - FARADAY TRANSACTIONS
JOURNAL OF THE CHEMICAL SOCIETY-PERKIN TRANSACTIONS 2
JOURNAL OF THE CHINESE INSTITUTE OF CHEMICAL ENGINEERS
JOURNAL OF THE ELECTROCHEMICAL SOCIETY
JOURNAL OF THE OPTICAL SOCIETY OF AMERICA B
JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE
JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL ENGINEERS
JSME INTERNATIONAL JOURNAL SERIES 2: FLUIDS ENGINEERING, HEAT TRANSFER, POWER
LAB ON A CHIP
LANGMUIR
LETTERS IN HEAT AND MASS TRANSFER
LUBRICANTS WORLD
MACROMOLECULAR SYMPOSIA
MACROMOLECULES
MATERIALS CHEMISTRY
MATERIALS LETTERS
MATERIALS RESEARCH BULLETIN
MATERIALS SCIENCE
MATERIALS SCIENCE AND ENGINEERING A
MATERIALS SCIENCE AND ENGINEERING B

MATERIALS SCIENCE AND ENGINEERING C
MATERIALS SCIENCE REPORTS
MATERIALS TODAY
MEASUREMENT
MEASUREMENT AND CONTROL
MEASUREMENT SCIENCE & TECHNOLOGY
MEASUREMENT TECHNIQUES
MECHANICS RESEARCH COMMUNICATIONS
MEMBRANE AND SEPARATION TECHNOLOGY NEWS
MESA MONOGRAPHS
METABOLIC ENGINEERING
METROLOGIA
MICROCHIMICA ACTA
MICROELECTRONIC ENGINEERING
MICROFLUIDICS AND NANOFUIDICS
MICROPOROUS AND MESOPOROUS MATERIALS
MICROPOROUS MATERIALS
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS
MOLECULAR ENGINEERING
MOLECULAR PHYSICS
MOLECULAR SIMULATION
MULTISCALE MODELING AND SIMULATION
NATURE
NEW JOURNAL OF CHEMISTRY
NEW SCIENTIST
NUMERICAL HEAT TRANSFER A
NUMERICAL HEAT TRANSFER B
OIL AND CHEMICAL POLLUTION
OPTICAL MATERIALS
OPTICS LETTERS
ORGANIC PROCESS RESEARCH & DEVELOPMENT
PACE - PROCESS AND CONTROL ENGINEERING
PARTICULATE SCIENCE AND TECHNOLOGY
PETROLEUM CHEMISTRY USSR
PETROLEUM ENGINEER INTERNATIONAL
PETROLEUM SCIENCE AND TECHNOLOGY
PHILOSOPHICAL MAGAZINE
PHILOSOPHICAL MAGAZINE LETTERS
PHYSICA A
PHYSICAL CHEMISTRY CHEMICAL PHYSICS
PHYSICAL REVIEW D
PHYSICAL REVIEW LETTERS
PHYSICAL SEPARATION IN SCIENCE AND ENGINEERING
PHYSICS LETTERS B
PHYSICS OF FLUIDS
PLANT CELL REPORTS
PLANT CELL TISSUE AND ORGAN CULTURE

POWDER TECHNOLOGY
PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE)
PROCESS BIOCHEMISTRY
PROCESS CONTROL AND QUALITY
PROCESS ENGINEERING
PROCESS SAFETY AND ENVIRONMENTAL PROTECTION
PROCESS SAFETY PROGRESS
PROTEINS - STRUCTURE FUNCTION AND BIOINFORMATICS
QUIMICA ANALITICA
RESOURCES CONSERVATION AND RECYCLING
ROYAL SOCIETY OF CHEMISTRY SPECIAL PUBLICATIONS
SENSORS AND ACTUATORS A
SENSORS AND ACTUATORS B
SENSORS AND MATERIALS
SEPARATION AND PURIFICATION REVIEWS
SEPARATION AND PURIFICATION TECHNOLOGY
SEPARATION SCIENCE AND TECHNOLOGY
SEPARATIONS TECHNOLOGY
SOFT MATTER
SOLID STATE IONICS
SPE JOURNAL
STUDIES IN SURFACE SCIENCE AND CATALYSIS
SURFACE AND COATINGS TECHNOLOGY
SURFACE AND INTERFACE ANALYSIS
SURFACE SCIENCE
TALANTA
TCE
TECHNOMETRICS
THEORETICAL FOUNDATIONS OF CHEMICAL ENGINEERING
THERMOCHIMICA ACTA
THIN SOLID FILMS
TOPICS IN ENVIRONMENTAL FLUID MECHANICS
TOPICS IN CATALYSIS
TRANSACTIONS OF THE ASME. JOURNAL OF BASIC ENGINEERING
TRANSACTIONS OF THE ASME. JOURNAL OF DYNAMIC SYSTEMS MEASUREMENT AND CONTROL
TRANSACTIONS OF THE ASME. JOURNAL OF FLUIDS ENGINEERING
TRANSACTIONS OF THE ASME. JOURNAL OF HEAT TRANSFER
TRANSACTIONS OF THE INSTITUTE OF CHEMICAL ENGINEERS
TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL
VACUUM
VIBRATIONAL SPECTROSCOPY
WASTE MANAGEMENT
WATER RESEARCH
WATER SCIENCE AND TECHNOLOGY
ZEOLITES

Appendix 4 - Other subscriptions and databases relevant to chemical engineering held at the JRUL.

Databases:

ABI Inform:

Biotechnology and Bioengineering Abstracts :

Compendex

SciFinder Scholar:

Environmental Abstracts:

INSPEC:

ISI Proceedings

Medline:

Scopus

Web of Science:

Zetoc:

Reports and Grey Literature:

NASA CASI Technical Reports Server :

NTRS (NASA Technical Reports Server):

GrayLIT Network:

NTIS:

SIGLE:

Standards and Patents:

Esp@cenet:

Derwent Innovations Index:

British Standards Online:

ASTM Standards:

Theses:

Dissertation Abstracts International:

Index to Theses:

Web:

Academic Google: (ac.uk)(.edu)

Google Scholar:

Scirus

Chemindustry.com:

EPSRC:

Bibliographic:

Ullman's Encyclopedia of Industrial Chemistry:

Google Books

Referex Engineering (eBooks)

Knovel Electronic Library