

# CA SELECTS PLUS Topics

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## Adhesives

### Service Code 082

- adhesives, binders, glues
- caulks, sealants, mastics, grouts

Not routinely covered: sizing agents, inorganic cements, coupling agents, pastes

ISSN: 1083-2726

## Amino Acids, Peptides, & Proteins

### Service Code 03F

- synthesis of amino acids, peptides, and proteins
- chemistry of amino acids and peptides

Not routinely covered: biochemical aspects

ISSN: 1083-2750

## Antitumor Agents

### Service Code 068

- cytotoxic agents, antimetabolites, alkylating agents, neoplasm inhibitors
- effect and mechanism of action
- synthesis and structure-activity relationships of drugs with potential antitumor activity
- pharmacology of most common antitumor agents

Not routinely covered: pharmacology of steroid hormonal antitumor agents, neoplasia, immunosuppression in non-tumor systems, carcinogenic activity

ISSN: 1083-2661

## Asymmetric Synthesis & Induction

### Service Code 06N

- synthetic methods for enantiomeric enrichment of compounds that contain one or more asymmetric centers

ISSN: 1084-2306

## Batteries & Fuel Cells

### Service Code 085

- design, manufacture, properties, and use of primary and secondary batteries
- fuel cells
- materials-related and electrochemical aspects
- reclamation of materials from spent batteries
- electrodes for batteries and fuel cells

ISSN: 1083-267X

## Carbohydrates (Chemical Aspects)

### Service Code 05B

- characterization, reactions, structure analysis, and nonindustrial synthesis of carbohydrates and their derivatives and polymers

ISSN: 1084-2314

## Carbon & Heteroatom NMR

### Service Code 039

- chemical aspects of nuclear magnetic resonance (NMR) of carbon, fluorine, phosphorus, and other heteroatoms
- chemically-induced dynamic nuclear polarization
- internuclear double resonance
- nuclear quadrupole resonance
- nuclear magnetic relaxation, nuclear spin relaxation, spin-lattice relaxation

Not routinely covered: proton magnetic resonance

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## Carcinogens, Mutagens, & Teratogens

### Service Code 070

- biological response to carcinogens, mutagens, and teratogens
- mechanism of action and structural requirements for activity
- detection and quantitation in feed and food material
- occupational exposure and resulting health hazard and safety requirements

Not covered: uses of these agents to induce pathogenic states for studying pathobiochemistry or for fabrication of therapeutic procedures

ISSN: 1084-2322

## Catalysis (Applied & Physical Aspects)

### Service Code 022

- theory and applications of heterogeneous and homogeneous catalysis and catalysts
- effect of catalysts on reaction kinetics

Not routinely covered: enzymic catalysis

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## Catalysis (Organic Reactions)

### Service Code 021

- theory and applications of heterogeneous and homogeneous catalysis and catalysts in organic chemistry

Not routinely covered: enzymic catalysis

ISSN: 1083-2785

## Chemical Hazards, Health, & Safety

### Service Code 023

- safety in chemical laboratories and in the chemical and nuclear industries
- health and safety of personnel working in these areas or working with hazardous substances
- effects of human exposure to hazardous substances
- hazardous properties of chemical substances and reactions

Not routinely covered: carcinogens, mutagens, teratogens, environmental pollution, or animal toxicology unless human health or safety is emphasized

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## Controlled Release Technology

### Service Code 05C

- science and technology of controlled release of biologically active materials (drugs, agrochemicals)
- polymeric delivery systems

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## Drug Delivery Systems & Dosage Forms

### Service Code 06S

- pharmaceutical dosage forms, e.g., tablets, capsules, ointments
- newer delivery systems and forms such as controlled-release devices, transdermal systems, ocular inserts, osmotic devices, antibody conjugates, and liposomes
- properties, formulation, bioavailability, and pharmacokinetic studies of drugs from the delivery systems and dosage forms

Excluded: pharmacological studies of drugs themselves with no formulation interest

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## Electrophoresis

### Service Code 02F

- techniques of electrophoretic processes
- cataphoresis, ionophoresis, isoelectric focusing

ISSN: 1084-0036

# CA SELECTS PLUS Topics

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## Environmental Pollution

### Service Code 045

- pollution of the environment by gaseous, liquid, solid, and radioactive wastes
  - oil spills
  - nuclear fallout
  - runoff containing fertilizers from agricultural lands
  - eutrophication of bodies of water
- ISSN: 1084-0441

## Enzyme Applications

### Service Code 02X

- studies in which enzymes are used as catalytic agents for the synthesis of organic compounds
- synthetic or artificial enzymes (synzymes, e.g., cyclodextrins, cyclophanes, polyethylenimines, crown ethers) and semisynthetic enzymes (e.g., flavopapains)
- enzymes used in a single step of a multistep organic synthesis
- asymmetric resolutions by enzyme-catalyzed reactions
- enzyme and coenzyme models or mimics
- novel enzyme reactions in organic solvents
- asymmetric resolution by enzymes

Not routinely covered: fermentative synthesis by whole cells; common usage of enzymes in organic synthesis

ISSN: 1084-2357

## Flavors & Fragrances

### Service Code 071

- substances affecting senses of smell and taste
- aromas, odorants, deodorants, perfumes, essential oils, flavoring materials, artificial sweeteners, acidulants, taste-modifying compounds
- synthetic methods for these compounds
- olfaction and gustation

Not routinely covered: sugars, e.g., sucrose, glucose, fructose, corn syrup, except when taste or sweetness is the point of the study

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## Forensic Chemistry

### Service Code 016

- chemistry of investigative science
- analytical techniques in forensic science
- blood chemistry
- biological fluid analysis and identification
- chemical analysis of explosives and gunshot wounds
- drug abuse
- breath analysis, drunkenness
- trace analysis
- fiber, ink, and paint analysis and identification
- arson, forgery, counterfeiting
- rape, homicide, suicide

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## Gas Chromatography

### Service Code 029

- gas chromatography in chemical analysis
- gas-liquid chromatography
- vapor phase chromatography
- instrumentation and apparatus for gas chromatography
- flame ionization detectors

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## Gel Permeation Chromatography

### Service Code 060

- theory and applications of gel permeation chromatography
- high-speed gel chromatography
- size exclusion chromatographic techniques
- affinity chromatography

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## High Performance Liquid Chromatography

### Service Code 018

- high speed liquid chromatography
- high pressure, high performance, high resolution liquid chromatography
- solid-liquid column chromatography
- ion-exchange chromatography

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# CA SELECTS PLUS Topics

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## Liquid Waste Treatment

### Service Code 051

- treatment and disposal by physical, chemical, and biological methods
- domestic and industrial sewage and wastewater
- sludges that result from liquid waste treatment
- liquid radioactive wastes, liquid manure, spent industrial liquors, leachates from landfills, and other solid wastes

ISSN: 1084-2381

## Mass Spectrometry

### Service Code 019

- methodology, apparatus, and experimental results obtained by various spectrometric techniques
- structure, thermochemistry, energetics, reaction kinetics and mechanisms, analytical applications
- certain related techniques, e.g., ion-cyclotron-resonance spectrometry, ion-kinetic-energy spectrometry

Not routinely covered: mass studies on subatomic particles

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## Organosilicon Chemistry

### Service Code 015

- compounds containing a silicon-carbon bond, silanes, siloxanes, silocarboranes
- alkyl silicates, silicon hydrides, silicon halides
- silicones, silicone oil

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## Pharmaceutical Analysis

### Service Code 06Y

- analysis of drugs in pure form or in pharmaceutical preparations
- all abstracts published in CA Section 64, as well as abstracts published in other sections and cross-referred to Section 64

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## Photochemistry

### Service Code 017

- photochemical reactions and mechanisms
- light-induced excited-state interactions
- luminescence (including fluorescence and phosphorescence), photochromism, and phosphors
- experimental and instrumental methods

Not routinely covered: photochemistry and photosynthesis, absorption spectra, photography and photocopying processes

ISSN: 1083-270X

## Pollution Monitoring

### Service Code 055

- analytical techniques and equipment related to monitoring pollution of land, water, and atmosphere by solid, liquid, and gaseous waste products
- remote sensing
- pollution indexes
- pollution standards

ISSN: 1084-0079

## Polyurethanes

### Service Code 05G

- preparation, properties, reactions, uses of urethane polymers, i.e., derived from polyisocyanates and polyols
- urethane rubbers
- spandex fibers
- polyurethane coatings, plastics, thermosetting resins

ISSN: 1083-2696

## Recovery & Recycling of Wastes

### Service Code 056

- processes and equipment used for recycling or recovery of all types of waste materials
- inorganic and organic wastes, plastics, oils, industrial effluents, sewage, steel and other metals, ashes, slags
- conversion and utilization of waste material

ISSN: 1084-0087

## Solid & Radioactive Waste Treatment

### Service Code 057

- chemical and chemical engineering aspects of treatment and disposal
- municipal, industrial, and laboratory wastes
- sludges and slurries
- nuclear fuel reprocessing wastes
- paper, wood, glass, plastic, and rubber wastes
- disposal processes, e.g., combustion, incineration, biodegradation, hydrolysis, chemical techniques

- bioremediation

ISSN: 1084-0095

## Ultrafiltration

### Service Code 03C

- technology and use of hyperfiltration and ultrafiltration
- reverse osmosis (biochemical, medical, food technology, water purification, waste treatment)
- manufacture of ultrafiltration membranes
- apparatus

ISSN: 1084-0117

## Water Treatment

### Service Code 05H

- chemical and physical purification of water for home and industrial use
- water softening

ISSN: 1084-0109

## Zeolites

### Service Code 100

- preparation of synthetic zeolites
- use of synthetic and natural zeolites and molecular sieves in adsorption and drying, catalysis, ion exchange, separation by molecular size

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