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Section **Chemistry**



Section Editor-in-Chief:

Prof. Dr. Samuel B. Adeloju

Introduction for Chemistry

The Chemistry section of the *Applied Sciences* journal is the ideal forum for publication of significant original and high-quality research, as well as reviews in all branches of chemistry and its sub-disciplines. These also include research on how chemistry is used for various applications in modern society. All manuscripts submitted for publication under this section will undergo the high quality peer review process of the *Applied Sciences* journal and, if accepted, will be published rapidly online.

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 **CiteScore (Scopus, 2017) 1.98**

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Subject Area

Analytical Chemistry

- Classical methods
- Electrochemical analysis, including amperometry, potentiometry and voltammetry
- Chromatography, including GC-MS, LC-MS and IC-MS
- Mass spectroscopy
- Spectroscopy, including atomic absorption, fluorescence, inductively coupled plasma-optical emission or -mass spectroscopy
- Thermal analysis
- Two-dimensional materials
- Lab-on-a-chip

Electrochemistry

- Electrochemical synthesis
- Electrolysis
- Electrochemical characterization, including cyclic voltammetry, impedance spectroscopy
- Batteries
- Energy
- Corrosion and corrosion control

Environmental Chemistry

- Sources of chemical pollutants in air, soil, and water
- Reactions of chemical pollutants in air, soil, and water
- Transport, effects, and fates of chemical pollutants in air, soil, and water
- Effect of human activities and biological activities
- Environmental analytical chemistry, including identification and monitoring of chemical pollutants
- Chemistry of waste (including wastewater) and waste treatment

Inorganic Chemistry

- Synthetic inorganic chemistry
- Descriptive inorganic chemistry
- Mechanistic inorganic chemistry
- Theoretical inorganic chemistry
- Characterization
- Application to commercial products

Materials Chemistry

- Material synthesis
- Material characterization
- Nanomaterials chemistry
- Synthesis and use of nanocarbons
- Metallic nanoparticles
- Organic-inorganic hybrid materials
- Polymers, including conducting polymers

Natural Products Chemistry

- Sources and function
- Isolation and purification
- Biosynthesis
- Synthesis
- Medical uses

Organic Chemistry

- Organic synthesis
- Organic reaction
- Organic compounds
- Characterization
- Properties
- Application to commercial products

Physical Chemistry

- Biophysical chemistry
- Reaction kinetics
- Thermodynamics
- Chemical spectroscopy
- Colloids
- Catalysis

Sensors

- Chemical sensors
- Biosensors
- Physical sensors
- Nanosensors
- Application and commercialisation

Theoretical Chemistry

- Computational chemistry
- Molecular dynamics
- Molecular mechanics
- Molecular modelling
- Mathematical chemistry
- Chemo-informatics