

## **Classification of papers at JRNC**

Try to choose from the secondary categories. If you do not find an appropriate category on the second level, just give a primary category. List the categories in the order of importance.

### **1 Analytical methods and detection techniques**

- 1.1 Activation analysis
- 1.2 Mass spectrometry (cannot be the major topic of a paper)
- 1.3 Liquid scintillation
- 1.4 Alpha spectrometry
- 1.5 Gamma spectrometry
- 1.6 X-ray spectrometry (cannot be the major topic of a paper)
- 1.7 Cherenkov counting
- 1.8 Ion-beam techniques
- 1.9 Mössbauer spectrometry

### **2 Environment**

- 2.1 Environmental radioactivity, radioecology
- 2.2 Sorption, radiocolloids
- 2.3 Migration of radionuclides
- 2.4 Environmental studies using nuclear methods
- 2.5 Nuclear forensics, Safeguards

### **3 Effects of radiation, radiation chemistry**

- 3.1 Fundamental radiation chemistry
- 3.2 Radiation chemistry of solids, crystalline materials, thermoluminescence, implantation
- 3.3 Liquids, kinetics, chemical mechanisms
- 3.4 Polymerization and polymer radiation chemistry
- 3.5 Dosimetry of ionizing radiation
- 3.6 Food irradiation
- 3.7 Industrial applications

### **4 Radiolabeled compounds and radiopharmaceuticals**

- 4.1 Production
- 4.2 Application in therapy
- 4.3 Application in diagnostics
- 4.4 Quality control
- 4.5 Nuclear imaging of radio-tracers

### **5 Actinide chemistry, super-heavy elements**

- 5.1 Thorium
- 5.2 Uranium
- 5.3 Plutonium
- 5.4 Minor actinides
- 5.5 Transactinides

### **6 Nuclear industry**

- 6.1 Nuclear fuel cycle
- 6.2 Reprocessing
- 6.3 Waste management
- 6.4 Nuclear disposal

*Submission process / information...*

6.5 Transmutation and partitioning

6.6 Decontamination

6.7 Decommissioning

6.8 Remediation

6.9 Ore processing, leaching

**7 Separation, speciation**

7.1 Separation techniques and methods

7.2 Precipitation, co-precipitation

7.3 Volatilization, distillation

7.4 Ion exchange chromatography

7.5 Solvent extraction and extraction chromatography

7.6 Electrolysis, electrodeposition

7.7 Speciation analysis of radionuclides

7.8 Sorption and desorption

**8 Radionuclides**

8.1 Production by accelerator

8.2 Production by neutrons

8.3 Application of radionuclides

8.4 Targets

8.5 Radiotracers

8.6 Radionuclide generator systems

**9 Instrumentation and methodology (cannot be the major topic of a paper)**

9.1 Instrumentation

9.2 Evaluation methods

9.3 Monte Carlo simulation