STAM Science and Technology of Advanced Materials (STAM)
Article Classifications

■ **1st Level** Authors/Editors/Reviewers choose one from the below.

10	Engineering and structural materials
20	Organic and soft materials (colloids, liquid crystals, gel, polymers)
30	Bio-inspired and biomedical materials
40	Optical, magnetic and electronic device materials
50	Energy materials
60	Materials Informatics
70	New topics/Others

■ **2nd Level** Authors/Editors/Reviewers choose several from the below.

100 Materials

- **101** Self-assembly / Self-organized materials
- **102** Porous / Nanoporous / Nanostructured materials
- **103** Composites
- **104** Carbon and related materials
- **105** Low-Dimension (1D/2D) materials
- **106** Metallic materials
- **107** Glass and ceramic materials

200 Applications

- **201** Electronics, Semiconductor, TCOs
- **202** Dielectrics, Piezoelectrics, Insulators
- **203** Magnetics, Spintronics, Superconductors
- **204** Optics, Optical applications
- **205** Catalyst, Photocatalyst, Photosynthesis
- **206** Energy conversion / transport / storage / recovery
- **207** Fuel cells, Batteries, Super capacitors
- **208** Sensors and actuators
- **209** Solar cell, Photovoltaics
- **210** Thermoelectronics, Thermal transport / insulators
- **211** Scaffold, Tissue engineering, Drug delivery
- **212** Surface and interfaces

300 Processing / Synthesis and Recycling

- **301** Chemical syntheses / processing
- **302** Crystallization, Heat treatment, Crystal growth
- **303** Mechanical / Physical processing
- **304** Powder processing / Sintering
- **305** Plasma / Laser processing
- **306** Thin film, Coatings
- **307** Kinetics and energy / mass transport
- **308** Materials resources / recycling

400 Modelling/Simulations

- **401** 1st principles methods
- **402** Semiempirical / empirical methods
- **403** Electronic structure calculations
- **404** Dynamics simulations
- **405** Responses, Reactions
- **406** Multi-scale / multi-physics modelling
- **407** CALPHAD, Phase field methods

500 Characterization

- **501** Chemical analyses
- **502** Electron spectroscopy
- **503** TEM, STEM, SEM
- **504** X-ray / Neutron diffraction and scattering
- **505** Optical / Molecular spectroscopy

600 Materials Informatics

- **601** Materials data generation (High throughput experiments and/or calculation)
- **602** Data analysis (AI, Machine learning, Data-driven analysis, Descriptor development, Structure search/identification)
- **603** Materials data utilization (Data mining, High throughput screening)
- **604** Computer systems and services
- **605** Databases, data structure, ontology

700 Others: Please specify.