

## GEC 2024 Sorting Categories

- 01.00 Atomic and molecular collisional and dynamical processes
  - 01.01 Electron and photon collisions with atoms and molecules: excitation
  - 01.02 Electron and photon collisions with atoms and molecules: ionization
  - 01.03 Heavy-particle collisions
  - 01.04 Dissociation, recombination and attachment
  - 01.05 Distribution functions and transport coefficients for electrons and ions
  - 01.06 Other atomic and molecular collision phenomena
- 02.00 Plasma science
  - 02.01 Nonequilibrium kinetics of low-temperature plasmas
  - 02.02 Basic plasma physics phenomena in low-temperature plasmas
  - 02.03 Plasma boundaries: sheaths, boundary layers, others,
  - 02.04 Plasma-surface interactions
  - 02.05 Gas phase plasma chemistry
  - 02.10 Laser and active plasma diagnostic methods
  - 02.11 Emission spectroscopy and imaging techniques
  - 02.12 Probes and sensors
  - 02.13 Other/novel diagnostic techniques
  - 02.20 Modeling and simulation: computational methods
  - 02.21 Modeling and simulation: validation and verification
  - 02.22 Modeling and simulation: plasma sources
  - 02.23 Modeling and simulation: plasma chemistry
  - 02.24 Modeling and simulation: plasma dynamics
  - 02.25 Modeling and simulation: other
  - 02.30 Glows: dc, pulsed, microwave, others
  - 02.31 Capacitively coupled plasmas
  - 02.32 Inductively coupled plasmas
  - 02.33 Magnetically-enhanced plasmas: ECR, helicon, magnetron, others
  - 02.34 Atmospheric pressure plasma jets and gliding arcs
  - 02.35 Dielectric barrier discharges
  - 02.36 Corona and streamer discharges
  - 02.37 Other atmospheric and high pressure plasmas
  - 02.38 Thermal plasmas: arcs, jets, switches, others
  - 02.40 Plasmas in liquids
  - 02.41 Plasma on or contacting liquids
  - 02.42 Plasmas and aerosols
  - 02.43 Negative-ion and dust-particle-containing plasmas
  - 02.50 Other plasma science topics
- 03.00 Plasma applications
  - 03.01 Plasmas for light production: laser media, glows, arcs, flat panels, and novel sources
  - 03.10 Plasma etching
  - 03.11 Plasma deposition
  - 03.12 Plasma ion implantation
  - 03.13 Plasma processing for photovoltaic applications
  - 03.14 Plasmas for nanotechnologies, flexible electronics, and other emerging applications
  - 03.15 Plasma for other materials processing and synthesis applications
  - 03.20 Green plasma technologies: environmental and energy applications
  - 03.21 Biological, medical, and agricultural applications of plasmas
  - 03.22 Plasma catalysis and chemical conversion

- 03.23 Plasma-assisted combustion and aerodynamics
- 03.30 Hall effect and gridded ion thrusters
- 03.31 Other/novel thrusters and neutralizers
- 03.32 Alternate propellants for electrical propulsion