

Journal of Physics D  
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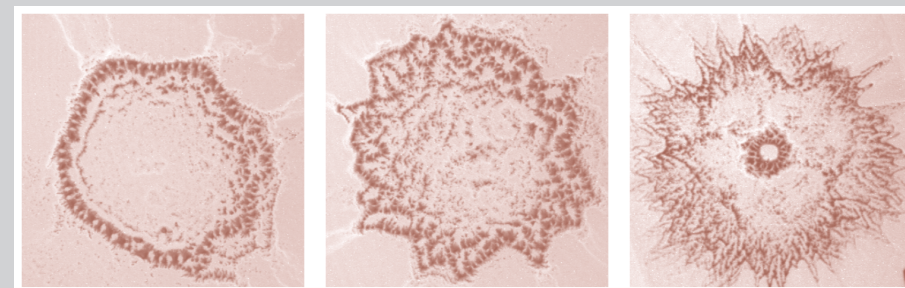
Topical reviews

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#### Low-temperature plasmas and plasma-surface interactions, including:

- low-pressure glow discharges and vacuum arcs
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- waves, instabilities, breakdown and streamers
- non-ideal, complex and dusty plasmas
- basic data and reaction mechanisms for modelling and diagnostics
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  - generation of coherent and incoherent radiation
  - applied biological and environmental systems
  - plasma propulsion

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- graphene and other layer systems: growth and functionalization
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- nanoscale mechanical properties of interfaces and residual stresses
- tribology, adhesion and fracture
- microfluidics
- thin films
- dielectric phenomena
- properties of granular systems
- organic materials and applications of soft condensed matter

#### Biological applications of physics

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- biological and biomedical spectroscopy and imaging techniques
- interfaces and adhesion in biological and biomedical systems
- biological and biomedical modelling
- biosensors and biophotonics
- biomagnetism
- plasma medicine
- physics applied to problems in the life sciences

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Professor Mingfang Lu FInstP ([mingfang.lu@iop.org](mailto:mingfang.lu@iop.org))  
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