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Fuel cells; Degradation; Mechanism (Tang, H. (170) 85)
- Nanocomposite  
Polymer electrolyte; Ionic conductivity; Impedance spectroscopy; Lithium battery (Wang, M. (170) 425)
- Nanopowder  
Solid oxide fuel cells; Thermal plasma spraying; Components; Integrated fabrication; Cost reduction (Hui, R. (170) 308)
- Net water drag  
PEM fuel cell; Water transport; Microporous layer; Ionomeric membrane (Atiyeh, H.K. (170) 111)
- Neutron radiography  
PEMFC; Water visualization; Water management (Chen, Y.-S. (170) 376)
- NEXAFS spectroscopy  
Lithium; Batteries; EELS spectroscopy; Inelastic X-ray scattering; Intercalation (Braun, A. (170) 173)
- NiO/stabilized yttria-zirconia (YSZ) anode substrates  
Solid oxide fuel cells; Gel casting; Optimization; Peak power; Graphite pore-former (Zhang, L. (170) 55)
- Non-homogeneous equation  
Green's function; Concentration; Eigen values; Eigen functions; Utilization; Boundary value problem (Johan, M.R. (170) 490)
- Open-circuit voltage  
Proton exchange membrane fuel cell; Hydrogen peroxide; Ruthenium/carbon catalyst; Oxygen cross-over (Jung, U.H. (170) 281)
- Optimization  
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- Optimization  
Solid oxide fuel cells; NiO/stabilized yttria-zirconia (YSZ) anode substrates; Gel casting; Peak power; Graphite pore-former (Zhang, L. (170) 55)
- Oxygen cross-over  
Proton exchange membrane fuel cell; Hydrogen peroxide; Ruthenium/carbon catalyst; Open-circuit voltage (Jung, U.H. (170) 281)
- Oxygen electro-reduction  
Alloy film; Electrodeposition; Catalyst; Methanol electro-oxidation (Xu, Y. (170) 13)
- Oxygen reduction  
Palladium; Catalyst; Fuel cell; Pt free; Mechanism (Mustain, W.E. (170) 28)
- Oxygen reduction reaction  
Pt/C; Pulse-microwave assisted polyol synthesis method (Song, S. (170) 46)
- Oxygen reduction reaction (ORR)  
Iridium; Ir-Co alloy; Electrocatalyst; Methanol tolerance; Direct methanol fuel cell (DMFC) (Lee, K. (170) 291)
- Palladium  
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- Particle size  
Ultra-fine powder; YSZ; Plasma spray; Synthesis (Wang, Z. (170) 145)
- PBI membrane  
PEM fuel cell; Transient evolution; CO poisoning (Wang, C.-P. (170) 235)
- Peak power  
Solid oxide fuel cells; NiO/stabilized yttria-zirconia (YSZ) anode substrates; Gel casting; Optimization; Graphite pore-former (Zhang, L. (170) 55)
- PEM fuel cell  
Liquid water transport; Visualization; Gas diffusion layer; Microporous layer (Spernjak, D. (170) 334)
- PEM fuel cell  
PBI membrane; Transient evolution; CO poisoning (Wang, C.-P. (170) 235)
- PEM fuel cell  
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- PEMFC  
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- PEMFC  
Contact resistance; GDL compression; Clamping force (Zhou, P. (170) 93)
- PEMFC  
Water visualization; Water management; Neutron radiography (Chen, Y.-S. (170) 376)
- Performance  
SOFC; Heat/mass transfer; Electrochemical reaction (Wang, Y. (170) 101)
- Phosphoric acid-doped polybenzimidazole  
High-temperature polymer electrolyte fuel cell; Ionomer content; Membrane electrolyte assembly; Cathode catalyst; Potential loss (Kim, J.-H. (170) 275)
- Plasma spray  
Ultra-fine powder; YSZ; Synthesis; Particle size (Wang, Z. (170) 145)
- Plasticizer  
Polymer electrolyte; Poly (vinyl chloride)/poly (acrylonitrile) blend; Ionic conductivity; Thermal stability; Lithium perchlorate (Rajendran, S. (170) 460)
- Platinum alloys  
Ethanol oxidation; Direct ethanol fuel cells; Electrocatalysts (Antolini, E. (170) 1)
- Poly (vinyl chloride)/poly (acrylonitrile) blend  
Polymer electrolyte; Plasticizer; Ionic conductivity; Thermal stability; Lithium perchlorate (Rajendran, S. (170) 460)
- Polyaniline  
Carbon nanotube; Microbial fuel cell; Anode modification; Power density (Qiao, Y. (170) 79)
- Polyaniline/graphite composite  
Rechargeable battery; Zinc; Discharge capacity; Specific energy (Ghanbari, K. (170) 513)
- Polymer  
Poly(vinylidene fluoride); Electrolytes; Lithium; Battery (Gentili, V. (170) 185)
- Polymer electrolyte  
Nanocomposite; Ionic conductivity; Impedance spectroscopy; Lithium battery (Wang, M. (170) 425)
- Polymer electrolyte  
Poly (vinyl chloride)/poly (acrylonitrile) blend; Plasticizer; Ionic conductivity; Thermal stability; Lithium perchlorate (Rajendran, S. (170) 460)
- Polymer electrolyte fuel cell  
Sodium borohydride; Hydrogen generation; Co-B catalyst (Kim, S.J. (170) 412)
- Polymer electrolyte fuel cells  
Hot-pressed MEA; Catalyst-coated membrane; Cell performance; Fabrication method (Tang, H. (170) 140)
- Polymer electrolyte fuel cells  
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- Polypyrrole  
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- Poly(vinylidene fluoride)  
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- Poly(vinylidene) fluoride  
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- Porous media  
Sodium borohydride; Reactor modeling; Multi-phase (Zhang, J. (170) 150)
- Porous membrane  
Mechanical strength; Ionic conductivity; Morphology control; Poly (vinylidene) fluoride; Lithium battery (Seol, W.-H. (170) 191)
- Positive plate  
Lead-acid batteries; Gel-crystal model; Impedance spectroscopy (EIS); Electrochemical double layer (EDL); State of health (SoC); State of charge (SoH) (Kirchev, A. (170) 495)
- Potential loss  
High-temperature polymer electrolyte fuel cell; Ionomer content; Membrane electrolyte assembly; Phosphoric acid-doped polybenzimidazole; Cathode catalyst (Kim, J.-H. (170) 275)
- Power  
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- Power density  
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- Pressure loss  
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- Pressurized hybrid system  
Solid oxide fuel cell; Gas turbine; Pressure loss; Compressor surge (Park, S.K. (170) 130)
- Proton conductivity  
Cross-linking; Sulfonation; Membrane (Ding, F.C. (170) 20)
- Proton conductivity  
Polymer electrolyte fuel cells; Membranes; Silica; SPEEK; Composites (Sambandam, S. (170) 259)
- Proton conductivity  
Sulfonated poly(sulfide sulfone); Membrane; Cross-linking (Zhang, C. (170) 42)
- Proton conductor  
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- Proton exchange membrane fuel cell  
Hydrogen peroxide; Ruthenium/carbon catalyst; Oxygen cross-over; Open-circuit voltage (Jung, U.H. (170) 281)
- Proton exchange membrane (PEM)  
Nafion<sup>®</sup> membrane; Humidity cycle; Mechanical response; Elasto-plasticity; Swelling anisotropy (Kusoglu, A. (170) 345)
- Pt and  $\text{CeO}_2$   
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- Pt free  
Oxygen reduction; Palladium; Catalyst; Fuel cell; Mechanism (Mustain, W.E. (170) 28)
- Pt/C  
Oxygen reduction reaction; Pulse-microwave assisted polyol synthesis method (Song, S. (170) 46)
- PtRu/C electrocatalyst  
 $\gamma$ -Irradiation; Methanol; Fuel cell (Silva, D.F. (170) 303)
- PtRu/C nanoparticle electrocatalyst  
Direct ethanol fuel cell; PtRuMo/C nanoparticle electrocatalyst; Ethanol electrooxidation (Wang, Z.-B. (170) 242)
- PtRuMo/C nanoparticle electrocatalyst  
Direct ethanol fuel cell; PtRu/C nanoparticle electrocatalyst; Ethanol electrooxidation (Wang, Z.-B. (170) 242)
- Pulse-microwave assisted polyol synthesis method  
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- PVDF  
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- RBS  
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- Reactive flow  
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- Reactor modeling  
Sodium borohydride; Porous media; Multi-phase (Zhang, J. (170) 150)
- Rechargeable battery  
Polyaniline/graphite composite; Zinc; Discharge capacity; Specific energy (Ghanbari, K. (170) 513)

- Ruthenium/carbon catalyst  
Proton exchange membrane fuel cell; Hydrogen peroxide; Oxygen cross-over; Open-circuit voltage (Jung, U.H. (170) 281)
- Selective electrode  
Mixed-reactant fuel cell; Hydrophobicity; Bipolar plate; Fuel cell (Zeng, R. (170) 286)
- Silica  
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- Silicon monoxide (SiO)  
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- Simulation  
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- Sodium borohydride  
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- Sodium borohydride  
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- SOFC  
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- SOFC  
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- Solid oxide fuel cell  
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- Solid oxide fuel cell  
Gas turbine; Pressurized hybrid system; Pressure loss; Compressor surge (Park, S.K. (170) 130)
- Solid oxide fuel cell  
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- Solid oxide fuel cell (SOFC)  
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- Solid oxide fuel cells  
NiO/stabilized yttria-zirconia (YSZ) anode substrates; Gel casting; Optimization; Peak power; Graphite pore-former (Zhang, L. (170) 55)
- Solid oxide fuel cells  
Thermal plasma spraying; Nanopowder; Components; Integrated fabrication; Cost reduction (Hui, R. (170) 308)
- Solid oxide fuel cells  
Tortuosity; Microscopic modeling; Reactive flow; Lattice Boltzmann method (Asinari, P. (170) 359)
- Solid-oxide fuel cells  
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- Solid-state synthesis and Rietveld refinement  
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- Spent batteries  
Li-ion batteries; Leaching; Liquid-liquid extraction (Dorella, G. (170) 210)
- Stainless steel  
Bipolar plate; Ferrite; Tin oxide; PEMFC (Wang, H. (170) 387)
- Stainless steel  
Fuel cell; Bipolar plate; Chromium nitride; Corrosion resistance; Interfacial contact resistance (Nam, D.-G. (170) 268)
- State of charge (SoH)  
Lead-acid batteries; Positive plate; Gel-crystal model; Impedance spectroscopy (EIS); Electrochemical double layer (EDL); State of health (SoC) (Kirchev, A. (170) 495)
- State of health (SoC)  
Lead-acid batteries; Positive plate; Gel-crystal model; Impedance spectroscopy (EIS); Electrochemical double layer (EDL); State of charge (SoH) (Kirchev, A. (170) 495)
- Sulfonated poly(sulfide sulfone)  
Membrane; Cross-linking; Proton conductivity (Zhang, C. (170) 42)
- Sulfonation  
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- Supercapacitors  
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- Suspension spray  
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- Swelling anisotropy  
Proton exchange membrane (PEM); Nafion® membrane; Humidity cycle; Mechanical response; Elasto-plasticity (Kusoglu, A. (170) 345)
- Synthesis  
Ultra-fine powder; YSZ; Plasma spray; Particle size (Wang, Z. (170) 145)
- Thermal plasma spraying  
Solid oxide fuel cells; Nanopowder; Components; Integrated fabrication; Cost reduction (Hui, R. (170) 308)
- Thermal runaway  
Li-ion battery; Abuse modeling; Battery modeling; Hybrid electric vehicle (Kim, G.-H. (170) 476)
- Thermal stability  
Polymer electrolyte; Poly (vinyl chloride)/poly (acrylonitrile) blend; Plasticizer; Ionic conductivity; Lithium perchlorate (Rajendran, S. (170) 460)
- Tin oxide  
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- TiO<sub>2</sub> nanotubes/Pt/C (TNT/Pt/C)  
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- Tortuosity  
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- Transient evolution  
PBI membrane; PEM fuel cell; CO poisoning (Wang, C.-P. (170) 235)
- Transportation  
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- Ultra-fine powder  
YSZ; Plasma spray; Synthesis; Particle size (Wang, Z. (170) 145)
- Utilization  
Green's function; Non-homogeneous equation; Concentration; Eigen values; Eigen functions; Boundary value problem (Johan, M.R. (170) 490)
- Vanadium pentoxide  
Lithium intercalation; Ageing; XPS; AFM; RBS (Światowska-Mrowiecka, J. (170) 160)
- Visualization  
PEM fuel cell; Liquid water transport; Gas diffusion layer; Microporous layer (Spernjak, D. (170) 334)

## Volume change

Silicon monoxide (SiO); Lithium-ion battery; Carbon composite; Capacity;  
Cycle performance (Kim, J.-H. (170) 456)

## Water management

PEMFC; Water visualization; Neutron radiography (Chen, Y.-S. (170) 376)

## Water transport

PEM fuel cell; Microporous layer; Net water drag; Ionomeric membrane  
(Atiyeh, H.K. (170) 111)

## Water visualization

PEMFC; Water management; Neutron radiography (Chen, Y.-S. (170) 376)

## XPS

Vanadium pentoxide; Lithium intercalation; Ageing; AFM; RBS (Świa-  
towska-Mrowiecka, J. (170) 160)

## YSZ

Ultra-fine powder; Plasma spray; Synthesis; Particle size (Wang, Z.  
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## Zinc

Rechargeable battery; Polyaniline/graphite composite; Discharge capacity;  
Specific energy (Ghanbari, K. (170) 513)