Journal of Power Sources

Acceptable Acronyms and Abbreviations

a.c.	alternating current
AES	Auger electron spectroscopy
AFM	atomic force microscopy
ALABC	Advanced Lead-Acid Battery Consortium
aq.	aqueous
BET	Brunauer-Emmet-Teller adsorption
BMW	Bayerische Motoren Werke AG
BP	British Petroleum
CNG	compressed natural gas
CNT	carbon nanotube
CV	cyclic voltammetry
d.c.	direct current
DMC	dimethyl carbonate
DMF	*N*,*N*-dimethylformamide
DoD	depth-of-discharge
DOE	Department of Energy (USA)
DSC	differential scanning calorimetry
EC	ethylene carbonate
EDX	energy dispersive X-ray spectroscopy
emf	electromotive force
EO	ethylene oxide
EPA	Environmental Protection Authority
EPMA	electron probe microanalysis
EU	European Union
EV	electric vehicle

EXAFS	extended X-ray adsorption fine structure
FTIR	Fourier transform infra-red
GDE	gas-diffusion electrode
GDL	gas-diffusion layer
GE	General Electric Company
GHG	greenhouse gas
GM	General Motors
HEV	hybrid electric vehicle
HHV	higher heating value
IAHE	International Association for Hydrogen Energy
ICE	Internal combustion engine
IEA	International Energy Agency
IEC	International Electrotechnical Commission
IPHE	International Partnership for the Hydrogen Economy
IR	infra-red IT information technology
LED	light emitting diode
LEED	low-energy electron diffraction
LH_2	liquid hydrogen
LHV	lower heating value
MEA	membrane–electrode assembly
MH	metal hydride
MIT	Massachusetts Institute of Technology
MOF	metal–organic framework
MOSFET	metal-oxide-semiconductor field effect transistor
MWCNT	multi-wall carbon nanotube
NASA	National Aeronautics and Space Administration (USA)
NEXAFS	near-edge X-ray absorption spectroscopy

NMR	nuclear magnetic resonance
NO_x	nitrogen oxides
NTP	normal temperature (273.15 K) and pressure (101.325 kPa)
OECD	Organisation for Economic Co-operation and Development
OCV	open-circuit voltage
OSHA	Occupational Safety & Heath Administration
PAAM	polyacrylamide
PAM	positive active-mass
PAN	polyacrylonitrile
PBI	polybenzimidazol
PC	propylene carbonate
PE	polyethylene
PEG	poly(ethylene glycol)
PEM	proton– exchange membrane; *also*: polymer electrolyte membrane
PEO	poly(ethylene oxide)
PG&E	Pacific Gas & Electric
PMMA	poly(methyl methacrylate)
PP	polypropylene
PPO	poly(propylene oxide)
PSU	polysulfone
PTFE	polytetrafluoroethylene
PV	photovotaic
PVA	poly(vinyl alcohol)
PVC	poly(vinyl chloride)
PVdF	poly(vinylidene fluoride)
PVP	polyvinylpyrolidone
RDE	rotating disk electrode
RE	reference electrode
RH	relative humidity
RHE	reversible hydrogen electrode

RMS	root mean square
rpm	revolutions per minute
SAE	Society of Automotive Engineers
SCE	saturated calomel electrode
SEM	scanning electron microscopy
SHE	standard hydrogen electrode
SIMS	secondary mass spectroscopy
SLI	starting, lighting and ignition
SI	Système International
SNL	Sandia National Laboratory
SoC	state-of-charge
SO_x	sulfur oxides
SPE	solid polymer electrolyte
STM	scanning tunnelling microscopy
STP	standard temperature (298.15 K) and pressure (101.325 kPa)
SUV	sports utility vehicle
TEM	transmission electron microscopy
TGA	thermogravimetric analysis
UPS	uninterruptible power supply
UTC	United Technologies Corporation
VRLA	valve-regulated lead–acid battery
XPS	X-ray photoelectron spectroscopy
XRD	X-ray diffraction
YSZ	yttrium-stabilized zirconia
ZEV	zero emission vehicle