**Organic Molecules**

alkanes, alkenes, alkynes

perfluoroalkanes

partially fluorinated alkanes

amides

imides

esters

ethers

ketones

aldehydes

**Energetic Materials**

hydrazines

hydroxylammonium nitrate (HAN)

hydroxylethyl hydrazinium nitrate (HEHN)

TATB

PETN

TNT

FOX-7

RDX

HMX

**Polymers**

estane

polyimides

polyamides

polyesters

polyethers (e.g., PEO)

PIB

PDMS

PTFE

polybutadiene

polyalkanes

**Solvents/Additives**

water

sulfones (cyclic and acyclic)

acetone

nitriles (e.g., acetonitrile, succinonitrile, adiponitrile)

ethers (e.g., dimethoxyethane)

perfluoroethers

partially fluorinated ethers

linear carbonates (e.g., dimethyl carbonate)

cyclic carbonates (e.g., ethylene carbonate)

partially fluorinated carbonates (e.g., FEC)

**SEI compounds**

dilithium dicarbonates

lithium carbonates

LiF

Li2CO3

**Cations**

Li+

Na+

K+

Mg2+

Zn2+

H3O+

ammoniums

hydraziniums

imidazoliums

pyrrolidiniums

morpholiniums

piperidiniums

phosphoniums

**Anions**

OH-

Br-

F-

FSI

TFSI

CO32-

BF4-

BF3CH3-

BF3CF3-

PF6-

C(CN)3-

N(CN)2-

B(CN)­4-

CN-

NO3-

SO3CF3

BOB

N3-

CN7-

**Electrodes**

graphite

iridium