## Mengqing Xu

## List of Publications by Year in descending order

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| 11 | Optimal concentration of electrolyte additive for cyclic stability improvement of high-voltage cathode of lithium-ion battery. lonics, 2018, 24, 661-670. | 1.2 | 10 |
| :---: | :---: | :---: | :---: |
| 12 | Constructing Unique Cathode Interface by Manipulating Functional Groups of Electrolyte Additive for Graphite/LiNi<sub>0.6</sub>Co<sub>0.2</sub>Mn<sub>0.2</sub>O<sub>2</sub> Cells at High Voltage. Journal of Physical Chemistry Letters, 2018, 9, 3434-3445. | 2.1 | 77 |
| 13 | Diethyl(thiophen-2-ylmethyl)phosphonate: a novel multifunctional electrolyte additive for high voltage batteries. Journal of Materials Chemistry A, 2018, 6, 10990-11004. | 5.2 | 105 |

14 Mechanism of cycling degradation and strategy to stabilize a nickel-rich cathode. Journal of Materials
19
20

Significantly improved cyclability of lithium manganese oxide, simultaneously inhibiting
19 electrochemical and thermal decomposition of the electrolyte by the use of an additive. RSC
1.7

Advances, 2017, 7, 46594-46603.
Tetrafluoroterephthalonitrile: A Novel Electrolyte Additive for High-Voltage Lithium Cobalt Oxide/Graphite Battery. Electrochimica Acta, 2017, 256, 307-315.
2.6

31

Enhancing electrochemical performance of Li/LiMn2O4 cell at elevated temperature by tailoring
21 cathode interface via diethyl phenylphosphonite (DEPP) incorporation. Journal of Applied
1.5

17
Electrochemistry, 2017, 47, 1161-1172.
Maintaining structural integrity of 4.5ÂV lithium cobalt oxide cathode with fumaronitrile as a novel electrolyte additive. Journal of Power Sources, 2017, 338, 108-116.

24 Dimethylacetamide as a film-forming additive for improving the cyclic stability of high voltage
lithium-rich cathode at room and elevated temperature. Electrochimica Acta, 2016, 204, 192-198.
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30
A novel imidazole-based electrolyte additive for improved electrochemical performance of high25 voltage nickel-rich cathode coupled with graphite anode lithium ion battery. Journal of Power$4.0 \quad 59$Sources, 2016, 332, 312-321.Improving High Voltage Interfacial and Structural Stability of Layered Lithium-Rich Oxide Cathode byUsing a Boracic Electrolyte Additive. Journal of the Electrochemical Society, 2016, 163, A2258-A2264.
27 Effect of ethylene glycol bis (propionitrile) ether (EGBE) on the performance and interfacial chemistry
33 performance as a cathode for lithiumâ€" sulfur batteries. Journal of Materials Chemistry A, 2015, 3, ..... 5.2 ..... 47

    18098-18104.
    Tris(trimethylsilyl)borate as an electrolyte additive for improving interfacial stability of high voltage
34 layered lithium-rich oxide cathode/carbonate-based electrolyte. Journal of Power Sources, 2015, 285, 360-366.
37

Generation of Cathode Passivation Films via Oxidation of Lithium Bis(oxalato) Borate on High Voltage
Spinel (LiNi<sub>0.5</sub>Mn<sub>1.5<|sub>O<sub>4</sub>). Journal of Physical Chemistry C, 2014, 118,
1.5

118
7363-7368.

38 Tris(trimethylsilyl)phosphite as electrolyte additive for high voltage layered lithium nickel cobalt manganese oxide cathode of lithium ion battery. Electrochimica Acta, 2014, 147, 565-571.
2.6

119
Improving high voltage stability of lithium cobalt oxide/graphite battery via forming protective films
2.6

263-270.
40 Self-discharge suppression of $4.9 \hat{A ̂ V ~ L i N i O .5 M n 1.5 O 4 ~ c a t h o d e ~ b y ~ u s i n g ~ t r i s(t r i m e t h y l s i l y l) b o r a t e ~ a s ~ a n ~}$ electrolyte additive. Journal of Power Sources, 2014, 272, 501-507.
$4.0 \quad 72$

41 Tris (trimethylsilyl) borate (TMSB) as a cathode surface film forming additive for 5V Li/LiNiO.5Mn1.5O4
Li-ion cells. Electrochimica Acta, 2014, 147, 31-39.

Enhanced cyclability of LiNiO .5 Mn 1.5 O 4 cathode in carbonate based electrolyte with incorporation of tris(trimethylsilyl)phosphate (TMSP). Journal of Power Sources, 2014, 261, 148-155.
4.0

110

$43 \quad$| 4-(Trifluoromethyl)-benzonitrile: A novel electrolyte additive for lithium nickel manganese ox |
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| cathode of high voltage lithium ion battery. Journal of Power Sources, 2014, 267, 560-565. | 4 | Performance improvement of phenyl acetate as propylene carbonate-based electrolyte addit |
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| lithium ion battery by fluorine-substituting. Journal of Power Sources, 2014, 267, 182-187. |

Performance of lithium tetrafluorooxalatophosphate in methyl butyrate electrolytes. Journal of
1.5

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Dimethoxydiphenylsilane (DDS) as overcharge protection additive for lithium-ion batteries. Journal ofPower Sources, 2013, 244, 499-504.
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A novel electrolyte with the ability to form a solid electrolyte interface on the anode and cathode ofa LiMn2O4/graphite battery. Journal of Materials Chemistry A, 2013, 1, 12954.
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Properties of solid electrolyte interphase formed by prop-1-ene-1,3-sultone on graphite anode of Li-ion batteries. Electrochimica Acta, 2013, 105, 1-6.
2.6

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Improving the Performance of Graphite/ $\mathrm{LiNi}<$ sub $>0.5</$ sub $>\mathrm{Mn}<$ sub> $1.5</ \mathrm{sub}>\mathrm{O}<$ sub $>4</$ sub $>$ Cells at
50 High Voltage and Elevated Temperature with Added Lithium Bis(oxalato) Borate (LiBOB). Journal of the
1.3

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Electrochemical Society, 2013, 160, A2005-A2013.
Improved Performance of $\mathrm{LiNi}<\mathrm{sub}>0.5</ \mathrm{sub}\rangle \mathrm{Mn}<\mathrm{sub}\rangle 1.5</ \mathrm{sub}\rangle \mathrm{O}<\mathrm{sub}\rangle 4</$ sub>Cathodes with
Electrolytes Containing Dimethylmethylphosphonate (DMMP). Journal of the Electrochemical Society,
2012, 159, A2130-A2134.

Prop-1-ene-1,3-sultone as SEI formation additive in propylene carbonate-based electrolyte for lithium ion batteries. Electrochemistry Communications, 2012, 17, 92-95.

Tris (pentafluorophenyl) phosphine: An electrolyte additive for high voltage Li-ion batteries.
Electrochemistry Communications, 2012, 18, 123-126.

The reductive mechanism of ethylene sulfite as solid electrolyte interphase film-forming additive for
6794-6801.

58 Non-woven fabric supported poly(acrylonitrile-vinyl acetate) gel electrolyte for lithium ion battery

| 59 | Nonflammable Electrolytes for Lithium-Ion Batteries Containing Dimethyl Methylphosphonate. Journal of the Electrochemical Society, 2010, 157, A1113. | 1.3 | 68 |
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| 60 | Investigation of Lithium Tetrafluorooxalatophosphate [LiPF[sub 4](C[sub 2]O[sub 4])] as a Lithium-lon Battery Electrolyte for Elevated Temperature Performance. Journal of the Electrochemical Society, 2010, 157, A115. | 1.3 | 51 |
| 61 | Effect of propane sultone on elevated temperature performance of anode and cathode materials in lithium-ion batteries. Journal of Power Sources, 2009, 193, 804-809. | 4.0 | 117 |
| 62 | Theoretical Insight into Oxidative Decomposition of Propylene Carbonate in the Lithium Ion Battery. Journal of Physical Chemistry B, 2009, 113, 5181-5187. | 1.2 | 109 |
| 63 | Theoretical Investigations on Oxidative Stability of Solvents and Oxidative Decomposition Mechanism of Ethylene Carbonate for Lithium Ion Battery Use. Journal of Physical Chemistry B, 2009, 113, 16596-16602. | 1.2 | 221 |

