

# Yo Kobayashi

## List of Publications by Year in descending order

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69  
papers

4,205  
citations

117571

34  
h-index

106281

65  
g-index

70  
all docs

70  
docs citations

70  
times ranked

4483  
citing authors

#	ARTICLE	IF	CITATIONS
1	Unexpected capacity fade and recovery mechanism of LiFePO <sub>4</sub> /graphite cells for grid operation. Journal of Power Sources, 2020, 449, 227502.	4.0	12
2	Capacity fading of a LiFePO <sub>4</sub> /graphite cell during shallow cycling due to planar inhomogeneity in LiFePO <sub>4</sub> . Journal of Power Sources, 2020, 451, 227782.	4.0	7
3	Deposition and Dissolution of Copper on a Quartz Crystal Resonator in Contact with a Separator. Electrochemistry, 2018, 86, 250-253.	0.6	4
4	Differential voltage curve analysis of a lithium-ion battery during discharge. Journal of Power Sources, 2018, 398, 49-54.	4.0	36
5	Lithium migration between blended cathodes of a lithium-ion battery. Journal of Materials Chemistry A, 2017, 5, 8653-8661.	5.2	19
6	A long life 4ÅV class lithium-ion polymer battery with liquid-free polymer electrolyte. Journal of Power Sources, 2017, 341, 257-263.	4.0	26
7	A new design of highly reversible LiNiO <sub>2</sub> : Defect formation in transition metal site. Journal of Power Sources, 2017, 364, 156-162.	4.0	33
8	Electrochemical quartz crystal microbalance measurement of a Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> composite electrode in a carbonate electrolyte. Journal of Power Sources, 2015, 295, 162-166.	4.0	6
9	Proposal of simple and novel method of capacity fading analysis using pseudo-reference electrode in lithium ion cells: Application to solvent-free lithium ion polymer batteries. Journal of Power Sources, 2014, 247, 1026-1032.	4.0	17
10	A method of separating the capacities of layer and spinel compounds in blended cathode. Journal of Power Sources, 2014, 245, 1-6.	4.0	25
11	Particle Size Effects on the Entropy Behavior of a Li <sub>x</sub> FePO <sub>4</sub> Electrode. ChemPhysChem, 2014, 15, 2156-2161.	1.0	25
12	Analysis of Solid Electrolyte Interphase in Mn-Based Cathode/Graphite Li-Ion Battery with Glow Discharge Optical Emission Spectroscopy. Journal of the Electrochemical Society, 2014, 161, A1716-A1722.	1.3	15
13	Depth profiling of graphite electrode in lithium ion battery using glow discharge optical emission spectroscopy with small quantities of hydrogen or oxygen addition to argon. Journal of Analytical Atomic Spectrometry, 2014, 29, 95-104.	1.6	24
14	Oxidation Reaction of Polyether-Based Material and Its Suppression in Lithium Rechargeable Battery Using 4 V Class Cathode, LiNi <sub>1/3</sub> Mn <sub>1/3</sub> Co <sub>1/3</sub> O <sub>2</sub> . ACS Applied Materials & Interfaces, 2013, 5, 12387-12393.	4.0	33
15	Decrease in Capacity in Mn-Based/Graphite Commercial Lithium-Ion Batteries. Journal of the Electrochemical Society, 2013, 160, A1415-A1420.	1.3	10
16	Decrease in Capacity in Mn-Based/Graphite Commercial Lithium-Ion Batteries. Journal of the Electrochemical Society, 2013, 160, A1181-A1186.	1.3	40
17	Open Circuit Voltage of Li <sub>x</sub> FePO <sub>4</sub> Olivine Cathode and Its Electrochemical Reaction. Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2010, 57, 725-728.	0.1	0
18	Electrolyte properties of 1-alkyl-2,3,5-trimethylpyrazolium cation-based room-temperature ionic liquids for lithium secondary batteries. Journal of Power Sources, 2010, 195, 6207-6211.	4.0	37

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19	Open-circuit voltage study on LiFePO <sub>4</sub> olivine cathode. Journal of Power Sources, 2010, 195, 6879-6883.	4.0	36
20	Effects of cation and anion on physical properties of room-temperature ionic liquids. Journal of Molecular Liquids, 2010, 152, 9-13.	2.3	118
21	Relationship between electrochemical behavior and Li/vacancy arrangement in ramsdellite type Li <sub>2+x</sub> Ti <sub>3</sub> O <sub>7</sub> . Electrochimica Acta, 2009, 54, 1842-1850.	2.6	21
22	Shift of redox potential and kinetics in Li <sub>x</sub> (M <sub>n</sub> yFe <sub>1-<math>\tilde{y}</math>)PO<sub>4</sub>. Journal of Power Sources, 2009, 189, 397-401.</sub>	4.0	98
23	Relationships between center atom species (N, P) and ionic conductivity, viscosity, density, self-diffusion coefficient of quaternary cation room-temperature ionic liquids. Physical Chemistry Chemical Physics, 2009, 11, 3509.	1.3	80
24	Functionalized Room-Temperature Ionic Liquids for Lithium Secondary Battery Electrolyte Materials. Electrochemistry, 2009, 77, 690-692.	0.6	10
25	Quaternary Ammonium Room-Temperature Ionic Liquid/Lithium Salt Binary Electrolytes: Electrochemical Study. Journal of the Electrochemical Society, 2008, 155, A421.	1.3	96
26	Compatibility of <i>N</i> -Methyl- <i>N</i> -propylpyrrolidinium Cation Room-Temperature Ionic Liquid Electrolytes and Graphite Electrodes. Journal of Physical Chemistry C, 2008, 112, 16708-16713.	1.5	115
27	Quaternary Ammonium Room-Temperature Ionic Liquid Including an Oxygen Atom in Side Chain/Lithium Salt Binary Electrolytes: Ionic Conductivity and <sup>1</sup> H, <sup>7</sup> Li, and <sup>19</sup> F NMR Studies on Diffusion Coefficients and Local Motions. Journal of Physical Chemistry B, 2008, 112, 1189-1197.	1.2	84
28	Phase transition and conductive acceleration of phosphonium-cation-based room-temperature ionic liquid. Chemical Communications, 2008, , 5541.	2.2	11
29	Quaternary Ammonium Room-Temperature Ionic Liquid Including an Oxygen Atom in Side Chain/Lithium Salt Binary Electrolytes: Ab Initio Molecular Orbital Calculations of Interactions between Ions. Journal of Physical Chemistry B, 2008, 112, 9914-9920.	1.2	62
30	Dynamics of Phase Transition in Li-Cu-Sb Anode Material for Rechargeable Lithium Ion Battery. Journal of the Electrochemical Society, 2008, 155, A151.	1.3	14
31	Configurational Entropy of Lithium Manganese Oxide and Related Materials, LiCr <sub>y</sub> Mn <sub>2-<math>\tilde{y}</math></sub> O <sub>4</sub> ( $\tilde{y}$ =0, 0.3). Journal of the Electrochemical Society, 2008, 155, A14.	1.3	16
32	Effects of Alkyl Chain in Imidazolium-Type Room-Temperature Ionic Liquids as Lithium Secondary Battery Electrolytes. Electrochemical and Solid-State Letters, 2007, 10, A237.	2.2	54
33	Apparent Diffusion Constant and Electrochemical Reaction in LiFe <sub>1-<math>\tilde{x}</math></sub> Mn <sub>x</sub> PO <sub>4</sub> Olivine Cathodes. Journal of the Electrochemical Society, 2007, 154, A1118.	1.3	29
34	Imidazolium-Based Room-Temperature Ionic Liquid for Lithium Secondary Batteries. Journal of the Electrochemical Society, 2007, 154, A173.	1.3	195
35	Comparative Study of Lithium Secondary Batteries Using Nonvolatile Safety Electrolytes. Journal of the Electrochemical Society, 2007, 154, A677.	1.3	39
36	Electrochemical study on Mn <sup>2+</sup> -substitution in LiFePO <sub>4</sub> olivine compound. Journal of Power Sources, 2007, 174, 435-441.	4.0	67

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37	Relationship between the Electrochemical Behavior and Li Arrangement in $\text{Li}_x\text{MyMn}_{2-y}\text{O}_4$ (M = Co, Cr) with Spinel Structure. <i>Journal of Physical Chemistry B</i> , 2006, 110, 4998-5004.	1.2	24
38	Highly reversible lithium metal secondary battery using a room temperature ionic liquid/lithium salt mixture and a surface-coated cathode active material. <i>Chemical Communications</i> , 2006, , 544-545.	2.2	133
39	Lithium Secondary Batteries Using Modified-Imidazolium Room-Temperature Ionic Liquid. <i>Journal of Physical Chemistry B</i> , 2006, 110, 10228-10230.	1.2	333
40	Direct in Situ Observation of Dynamic Transport for Electrolyte Components by NMR Combined with Electrochemical Measurements. <i>Journal of Physical Chemistry B</i> , 2006, 110, 22302-22305.	1.2	29
41	Research and Development of All-Solid-State Lithium Polymer Secondary Batteries. <i>Kobunshi Ronbunshu</i> , 2006, 63, 139-148.	0.2	2
42	Basic Properties of All-Solid-State Lithium Polymer Secondary Batteries Using $\text{LiFePO}_4$ . <i>Electrochemistry</i> , 2006, 74, 321-325.	0.6	5
43	Room-temperature miscibility gap in $\text{Li}_x\text{FePO}_4$ . <i>Nature Materials</i> , 2006, 5, 357-360.	13.3	507
44	Improvement in High-Voltage Performance of All-Solid-State Lithium Polymer Secondary Batteries by Mixing Inorganic Electrolyte with Cathode Materials. <i>Journal of the Electrochemical Society</i> , 2006, 153, A1073.	1.3	29
45	Intermediate Phases in $\text{Li}_x\text{FePO}_4$ . <i>Materials Research Society Symposia Proceedings</i> , 2006, 972, 1.	0.1	2
46	Improvement of Degradation at Elevated Temperature and at High State-of-Charge Storage by $\text{ZrO}_2$ Coating on $\text{LiCoO}_2$ . <i>Journal of the Electrochemical Society</i> , 2006, 153, A348.	1.3	80
47	Evaluations of Super-Hydrophilic Titanium Oxide Compound Fabricated by Plasma Thermal Spray Coating. <i>IEEJ Transactions on Fundamentals and Materials</i> , 2006, 126, 857-862.	0.2	1
48	The effects of preparation condition and dopant on the electrochemical property for Fe-substituted $\text{Li}_2\text{MnO}_3$ . <i>Journal of Power Sources</i> , 2005, 146, 287-293.	4.0	38
49	Degradation mechanism analysis of all-solid-state lithium polymer secondary batteries by using the impedance measurement. <i>Journal of Power Sources</i> , 2005, 146, 741-744.	4.0	67
50	Development of high-voltage and high-capacity all-solid-state lithium secondary batteries. <i>Journal of Power Sources</i> , 2005, 146, 719-722.	4.0	61
51	All-solid-state lithium polymer secondary battery with $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ by mixing of $\text{Li}_3\text{PO}_4$ . <i>Electrochemistry Communications</i> , 2005, 7, 1083-1086.	2.3	43
52	Reversibility of Lithium Secondary Batteries Using a Room-Temperature Ionic Liquid Mixture and Lithium Metal. <i>Electrochemical and Solid-State Letters</i> , 2005, 8, A577.	2.2	129
53	Investigation on the Arrangement of Lithium Ions in $\text{Li}_x\text{La}_{1/3}\text{NbO}_3$ with Perovskite Structure. <i>Journal of Physical Chemistry B</i> , 2005, 109, 14648-14653.	1.2	10
54	Fabrication of All-Solid-State Lithium Polymer Secondary Batteries Using $\text{Al}_2\text{O}_3$ -Coated $\text{LiCoO}_2$ . <i>Chemistry of Materials</i> , 2005, 17, 5603-5605.	3.2	85

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55	High-Performance Genuine Lithium Polymer Battery Obtained by Fine-Ceramic-Electrolyte Coating of LiCoO <sub>2</sub> . Journal of the Electrochemical Society, 2005, 152, A1985.	1.3	35
56	Fabrication of High-Voltage, High-Capacity All-Solid-State Lithium Polymer Secondary Batteries by Application of the Polymer Electrolyte/Inorganic Electrolyte Composite Concept. Chemistry of Materials, 2005, 17, 2041-2045.	3.2	127
57	5 V Class All-Solid-State Composite Lithium Battery with Li <sub>3</sub> PO <sub>4</sub> Coated LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> . ChemInform, 2004, 35, no.	0.1	1
58	All-Solid-State Lithium Secondary Battery Using Oxysulfide Glass. Journal of the Electrochemical Society, 2004, 151, A1539.	1.3	27
59	Application of Lithium Metal Electrodes to All-Solid-State Lithium Secondary Batteries Using Li <sub>3</sub> PO <sub>4</sub> -Li <sub>2</sub> S-SiS <sub>2</sub> Glass. Journal of the Electrochemical Society, 2004, 151, A1309.	1.3	19
60	5 V Class All-Solid-State Composite Lithium Battery with Li <sub>3</sub> PO <sub>4</sub> Coated LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> . Journal of the Electrochemical Society, 2003, 150, A1577.	1.3	88
61	Gas generation mechanism due to electrolyte decomposition in commercial lithium-ion cell. Journal of Power Sources, 1999, 81-82, 715-719.	4.0	240
62	Densification of LiTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> -based solid electrolytes by spark-plasma-sintering. Journal of Power Sources, 1999, 81-82, 853-858.	4.0	96
63	Electrochemical and calorimetric approach to spinel lithium manganese oxide. Journal of Power Sources, 1999, 81-82, 463-466.	4.0	36
64	Dielectric properties of spark-plasma-sintered BaTiO <sub>3</sub> . Journal of Materials Science, 1999, 34, 917-924.	1.7	70
65	Series-connected multi-cell operation of lithium-ion cells by floating method. Journal of Power Sources, 1997, 68, 427-431.	4.0	3
66	Characterization of Li <sub>1-x</sub> Mn <sub>2-x</sub> O <sub>4</sub> defect spinel materials by their phase transition, magnetic and electrochemical properties. Journal of Power Sources, 1997, 68, 623-628.	4.0	35
67	Ionic conductivity enhancement in LiTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> -based composite electrolyte by the addition of lithium nitrate. Journal of Power Sources, 1997, 68, 407-411.	4.0	41
68	Chemical and Magnetic Characterization of Spinel Materials in the LiMn <sub>2</sub> O <sub>4</sub> -Li <sub>2</sub> Mn <sub>4</sub> O <sub>9</sub> -Li <sub>4</sub> Mn <sub>5</sub> O <sub>12</sub> System. Journal of Solid State Chemistry, 1996, 123, 255-266.	1.4	259
69	An X-ray photoelectron spectroscopy study on the surface film on carbon black anode in lithium secondary cells. Journal of Power Sources, 1995, 54, 171-174.	4.0	34