

# Tomohiro Yasuda

## List of Publications by Year in descending order

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37  
papers

3,395  
citations

279798

23  
h-index

361022

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g-index

39  
all docs

39  
docs citations

39  
times ranked

4119  
citing authors

#	ARTICLE	IF	CITATIONS
1	Continuous Gas-Phase Hydroformylation of Propene with CO <sub>2</sub> Using SILP Catalysts. ACS Sustainable Chemistry and Engineering, 2021, 9, 11674-11680.	6.7	14
2	Key factor governing the physicochemical properties and extent of proton transfer in protic ionic liquids: $\hat{p}K_a$ or chemical structure?. Physical Chemistry Chemical Physics, 2019, 21, 418-426.	2.8	42
3	Ion Gels for Ionic Polymer Actuators. , 2019, , 217-232.		0
4	Reverse water gas shift reaction using supported ionic liquid phase catalysts. Applied Catalysis B: Environmental, 2018, 232, 299-305.	20.2	35
5	Sulfonated Polyimide/Ionic Liquid Composite Membranes for CO <sub>2</sub> Separation: Transport Properties in Relation to Their Nanostructures. Macromolecules, 2018, 51, 7112-7120.	4.8	40
6	Application of Ionic Liquids to Energy Storage and Conversion Materials and Devices. Chemical Reviews, 2017, 117, 7190-7239.	47.7	1,214
7	Sulfonated polyimide/ionic liquid composite membranes for carbon dioxide separation. Polymer Journal, 2017, 49, 671-676.	2.7	28
8	Amphoteric water as acid and base for protic ionic liquids and their electrochemical activity when used as fuel cell electrolytes. Faraday Discussions, 2017, 206, 353-364.	3.2	16
9	Binary Protic Ionic Liquid Mixtures as a Proton Conductor: High Fuel Cell Reaction Activity and Facile Proton Transport. Journal of Physical Chemistry C, 2014, 118, 27631-27639.	3.1	73
10	Proton-conductivity-enhancing Ionic Liquid Consisting of Guanidine and Excess Trifluoromethanesulfonic Acid. Chemistry Letters, 2014, 43, 649-651.	1.3	7
11	Mechanism of Li Ion Desolvation at the Interface of Graphite Electrode and Glyme $\epsilon$ Li Salt Solvate Ionic Liquids. Journal of Physical Chemistry C, 2014, 118, 20246-20256.	3.1	155
12	Solubility of Poly(methyl methacrylate) in Ionic Liquids in Relation to Solvent Parameters. Langmuir, 2014, 30, 3228-3235.	3.5	47
13	Ion Gels for Ionic Polymer Actuators. , 2014, , 141-156.		3
14	Comparative Study on Physicochemical Properties of Protic Ionic Liquids Based on Allylammonium and Propylammonium Cations. Journal of Chemical & Engineering Data, 2013, 58, 2724-2732.	1.9	50
15	Alternating copolymer based on sulfonamide $\epsilon$ substituted phenylmaleimide and vinyl monomers as polymer electrolyte membrane. Journal of Polymer Science Part A, 2013, 51, 2233-2242.	2.3	8
16	Interactions in ion pairs of protic ionic liquids: Comparison with aprotic ionic liquids. Journal of Chemical Physics, 2013, 139, 174504.	3.0	63
17	Electrochemical properties of protic ionic liquids: correlation between open circuit potential for H <sub>2</sub> /O <sub>2</sub> cells under non-humidified conditions and $\hat{p}K_a$ . RSC Advances, 2013, 3, 4141.	3.6	45
18	Printable Polymer Actuators from Ionic Liquid, Soluble Polyimide, and Ubiquitous Carbon Materials. ACS Applied Materials & Interfaces, 2013, 5, 6307-6315.	8.0	63

#	ARTICLE	IF	CITATIONS
19	Protic ionic liquids: Fuel cell applications. <i>MRS Bulletin</i> , 2013, 38, 560-566.	3.5	170
20	Protic Ionic Liquids Based on a Super-Strong Base: Correlation between Physicochemical Properties and $\hat{p}K_a$ . <i>Materials Research Society Symposia Proceedings</i> , 2012, 1473, 1.	0.1	3
21	Effects of Polymer Structure on Properties of Sulfonated Polyimide/Protic Ionic Liquid Composite Membranes for Nonhumidified Fuel Cell Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 1783-1790.	8.0	94
22	Physicochemical properties determined by $\hat{p}K_a$ for protic ionic liquids based on an organic super-strong base with various Brønsted acids. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 5178.	2.8	201
23	Hydrogen bonds in protic ionic liquids and their correlation with physicochemical properties. <i>Chemical Communications</i> , 2011, 47, 12676.	4.1	103
24	A Mesothermal Fuel Cell using Diethylmethylammonium Trifluoromethanesulfonate Absorbed Membrane with H <sub>3</sub> PO <sub>4</sub> Addition and Various Amount of Electrolyte Loading in Catalyst Layer. <i>Electrochemistry</i> , 2011, 79, 377-380.	1.4	5
25	Applications of Ionic Liquids as Electrolyte for Energy Devices. <i>Journal of Ion Exchange</i> , 2011, 22, 58-64.	0.3	1
26	Performance of Nonhumidified Intermediate-temperature Fuel Cells Based on Protic Ionic Liquids Prepared from Oxo and Amide Acids. <i>Chemistry Letters</i> , 2010, 39, 678-679.	1.3	12
27	Fabrication of protic ionic liquid/sulfonated polyimide composite membranes for non-humidified fuel cells. <i>Journal of Power Sources</i> , 2010, 195, 5909-5914.	7.8	149
28	Nonhumidified Intermediate Temperature Fuel Cells Using Protic Ionic Liquids. <i>Journal of the American Chemical Society</i> , 2010, 132, 9764-9773.	13.7	426
29	Novel styrene/N-phenylmaleimide alternating copolymers with pendant sulfonimide acid groups for polymer electrolyte fuel cell applications. <i>Journal of Materials Chemistry</i> , 2009, 19, 514-521.	6.7	20
30	Hydrophobic Protic Ionic Liquid for Nonhumidified Intermediate-temperature Fuel Cells. <i>Chemistry Letters</i> , 2009, 38, 692-693.	1.3	35
31	Substituents effect on the properties of sulfonated polyimide copolymers. <i>Journal of Polymer Science Part A</i> , 2008, 46, 4469-4478.	2.3	29
32	Synthesis and properties of a polyimide containing pendant sulfophenoxypropoxy groups. <i>Journal of Polymer Science Part A</i> , 2007, 45, 157-163.	2.3	87
33	Synthesis and properties of polyimides bearing acid groups on long pendant aliphatic chains. <i>Journal of Polymer Science Part A</i> , 2006, 44, 3995-4005.	2.3	44
34	Novel Aromatic Polymer Electrolyte with Comb-like Structure: Synthesis and Properties. <i>Macromolecular Chemistry and Physics</i> , 2005, 206, 2390-2395.	2.2	3
35	Synthesis and properties of polyimide ionomers containing sulfoalkoxy and fluorenyl groups. <i>Journal of Polymer Science Part A</i> , 2005, 43, 4439-4445.	2.3	65
36	Novel Synthesis of $\hat{\epsilon}$ -Conjugated Molecules by Cross-Metathesis of Vinylarene and Vinylferrocene with a Schrock Catalyst. <i>Advanced Synthesis and Catalysis</i> , 2002, 344, 705.	4.3	24

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37	Selective Synthesis of 1-Aryl-2-ferrocenylethylene by Cross-Metathesis. Chemistry Letters, 2001, 30, 812-813.	1.3	18