Tomohiro Yasuda

List of Publications by Year
in descending order

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Version: 2024-02-01

37 papers	3,395 citations	279798 23 h-index	361022 35 g-index
39 all docs	39 docs citations	39 times ranked	4119 citing authors

#	Article	IF	Citations
1	Application of Ionic Liquids to Energy Storage and Conversion Materials and Devices. Chemical Reviews, 2017, 117, 7190-7239.	47.7	1,214
2	Nonhumidified Intermediate Temperature Fuel Cells Using Protic Ionic Liquids. Journal of the American Chemical Society, 2010, 132, 9764-9773.	13.7	426
3	Physicochemical properties determined by Î”pKa for protic ionic liquids based on an organic super-strong base with various BrÃ¸nsted acids. Physical Chemistry Chemical Physics, 2012, 14, 5178.	2.8	201
4	Protic ionic liquids: Fuel cell applications. MRS Bulletin, 2013, 38, 560-566.	3.5	170
5	Mechanism of Li Ion Desolvation at the Interface of Graphite Electrode and Glymeâ€“Li Salt Solvate Ionic Liquids. Journal of Physical Chemistry C, 2014, 118, 20246-20256.	3.1	155
6	Fabrication of protic ionic liquid/sulfonated polyimide composite membranes for non-humidified fuel cells. Journal of Power Sources, 2010, 195, 5909-5914.	7.8	149
7	Hydrogen bonds in protic ionic liquids and their correlation with physicochemical properties. Chemical Communications, 2011, 47, 12676.	4.1	103
8	Effects of Polymer Structure on Properties of Sulfonated Polyimide/Protic Ionic Liquid Composite Membranes for Nonhumidified Fuel Cell Applications. ACS Applied Materials & Interfaces, 2012, 4, 1783-1790.	8.0	94
9	Synthesis and properties of a polyimide containing pendant sulfophenoxypropoxy groups. Journal of Polymer Science Part A, 2007, 45, 157-163.	2.3	87
10	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
11	Synthesis and properties of polyimide ionomers containing sulfoalkoxy and fluorenyl groups. Journal of Polymer Science Part A, 2005, 43, 4439-4445.	2.3	65
12	Interactions in ion pairs of protic ionic liquids: Comparison with aprotic ionic liquids. Journal of Chemical Physics, 2013, 139, 174504.	3.0	63
13	Printable Polymer Actuators from Ionic Liquid, Soluble Polyimide, and Ubiquitous Carbon Materials. ACS Applied Materials & Interfaces, 2013, 5, 6307-6315.	8.0	63
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	Solubility of Poly(methyl methacrylate) in Ionic Liquids in Relation to Solvent Parameters. Langmuir, 2014, 30, 3228-3235.	3.5	47
16	Electrochemical properties of protic ionic liquids: correlation between open circuit potential for H2/O2 cells under non-humidified conditions and Î”pKa. RSC Advances, 2013, 3, 4141.	3.6	45
17	Synthesis and properties of polyimides bearing acid groups on long pendant aliphatic chains. Journal of Polymer Science Part A, 2006, 44, 3995-4005.	2.3	44
18	Key factor governing the physicochemical properties and extent of proton transfer in protic ionic liquids: Î”pK_a or chemical structure?. Physical Chemistry Chemical Physics, 2019, 21, 418-426.	2.8	42

#	Article	IF	Citations
19	Sulfonated Polyimide/Ionic Liquid Composite Membranes for CO₂ Separation: Transport Properties in Relation to Their Nanostructures. Macromolecules, 2018, 51, 7112-7120.	4.8	40
20	Hydrophobic Protic Ionic Liquid for Nonhumidified Intermediate-temperature Fuel Cells. Chemistry Letters, 2009, 38, 692-693.	1.3	35
21	Reverse water gas shift reaction using supported ionic liquid phase catalysts. Applied Catalysis B: Environmental, 2018, 232, 299-305.	20.2	35
22	Substituents effect on the properties of sulfonated polyimide copolymers. Journal of Polymer Science Part A, 2008, 46, 4469-4478.	2.3	29
23	Sulfonated polyimide/ionic liquid composite membranes for carbon dioxide separation. Polymer Journal, 2017, 49, 671-676.	2.7	28
24	Novel Synthesis of Ï€-Conjugated Molecules by Cross-Metathesis of Vinylarene and Vinylferrocene with a Schrock Catalyst. Advanced Synthesis and Catalysis, 2002, 344, 705.	4.3	24
25	Novel styrene/N-phenylmaleimidealternating copolymers with pendant sulfonimide acid groups for polymer electrolyte fuel cell applications. Journal of Materials Chemistry, 2009, 19, 514-521.	6.7	20
26	Selective Synthesis of 1-Aryl-2-ferrocenylethylene by Cross-Metathesis. Chemistry Letters, 2001, 30, 812-813.	1.3	18
27	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
28	Continuous Gas-Phase Hydroformylation of Propene with CO₂ Using SILP Catalysts. ACS Sustainable Chemistry and Engineering, 2021, 9, 11674-11680.	6.7	14
29	Performance of Nonhumidified Intermediate-temperature Fuel Cells Based on Protic Ionic Liquids Prepared from Oxo and Amide Acids. Chemistry Letters, 2010, 39, 678-679.	1.3	12
30	Alternating copolymer based on sulfonamideâ€substituted phenylmaleimide and vinyl monomers as polymer electrolyte membrane. Journal of Polymer Science Part A, 2013, 51, 2233-2242.	2.3	8
31	Proton-conductivity-enhancing Ionic Liquid Consisting of Guanidine and Excess Trifluoromethanesulfonic Acid. Chemistry Letters, 2014, 43, 649-651.	1.3	7
32	A Mesothermal Fuel Cell using Diethylmethylammonium Trifluoromethanesulfonate Absorbed Membrane with H3PO4 Addition and Various Amount of Electrolyte Loading in Catalyst Layer. Electrochemistry, 2011, 79, 377-380.	1.4	5
33	Novel Aromatic Polymer Electrolyte with Comb-like Structure: Synthesis and Properties. Macromolecular Chemistry and Physics, 2005, 206, 2390-2395.	2.2	3
34	Protic Ionic Liquids Based on a Super-Strong Base: Correlation between Physicochemical Properties and Î”pKa. Materials Research Society Symposia Proceedings, 2012, 1473, 1.	0.1	3
35	Ion Gels for Ionic Polymer Actuators. , 2014, , 141-156.		3
36	Applications of Ionic Liquids as Electrolyte for Energy Devices. Journal of Ion Exchange, 2011, 22, 58-64.	0.3	1

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37	Ion Gels for Ionic Polymer Actuators. , 2019, , 217-232.		0