

# Yusuke Daiko

## List of Publications by Year in descending order

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48  
papers

495  
citations

840776

11  
h-index

752698

20  
g-index

48  
all docs

48  
docs citations

48  
times ranked

436  
citing authors

#	ARTICLE	IF	CITATIONS
1	Proton Conduction and Pore Structure in Sol-Gel Glasses. <i>Chemistry of Materials</i> , 2002, 14, 4624-4627.	6.7	66
2	Pore size effect on proton transfer in sol-gel porous silica glasses. <i>Microporous and Mesoporous Materials</i> , 2004, 69, 149-155.	4.4	45
3	Dynamics of Proton Transfer in the Sol-Gel-Derived P <sub>2</sub> O <sub>5</sub> -SiO <sub>2</sub> Glasses. <i>Journal of Physical Chemistry B</i> , 2001, 105, 4653-4656.	2.6	44
4	Remarkable High Proton Conducting P <sub>2</sub> O <sub>5</sub> -SiO <sub>2</sub> Glass as a Fuel Cell Electrolyte Working at Sub-Zero to 120.DEG.C... <i>Journal of the Ceramic Society of Japan</i> , 2001, 109, 815-817.	1.3	40
5	Hydrogen sensor prepared using fast proton-conducting glass films. <i>Sensors and Actuators B: Chemical</i> , 2006, 120, 266-269.	7.8	24
6	Fabrication and thermal conductivity of highly porous alumina body from platelets with yeast fungi as a pore forming agent. <i>Ceramics International</i> , 2016, 42, 13882-13887.	4.8	21
7	Mechanochemically induced sulfur doping in ZnO via oxygen vacancy formation. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 13838-13845.	2.8	21
8	Deposition of Ultrathin Nafion Layers on Sol-Gel-Derived Phenylsilsesquioxane Particles via Layer-by-Layer Assembly. <i>Journal of the Electrochemical Society</i> , 2008, 155, B479.	2.9	16
9	Structures and electrical properties of core-shell composite electrolytes with multi-heterointerfaces. <i>Solid State Ionics</i> , 2007, 178, 621-625.	2.7	15
10	Formation of Micro and Mesoporous Amorphous Silica-Based Materials from Single Source Precursors. <i>Inorganics</i> , 2016, 4, 5.	2.7	12
11	Low temperature <i>in situ</i> formation of cobalt in silicon nitride toward functional nitride nanocomposites. <i>Chemical Communications</i> , 2021, 57, 2057-2060.	4.1	12
12	The state of P Onb non-bridging oxygen and proton incorporation in binary MO-P <sub>2</sub> O <sub>5</sub> (M = Ca, Mg) phosphate glasses. <i>Solid State Ionics</i> , 2013, 245-246, 19-23.	2.7	11
13	Amine-functionalized polycarbosilane hybrids for CO <sub>2</sub> -selective membranes. <i>Journal of the European Ceramic Society</i> , 2017, 37, 5213-5221.	5.7	11
14	Formation of a High Conductivity Fuel Cell Electrolyte by Pressing Diphenylsiloxane-Based Inorganic-Organic Hybrid Particles. <i>Journal of the American Ceramic Society</i> , 2009, 92, S185-S188.	3.8	9
15	H <sup>+</sup> emission under room temperature and non-vacuum atmosphere from a sol-gel-derived nanoporous emitter. <i>Journal of Sol-Gel Science and Technology</i> , 2017, 83, 252-258.	2.4	9
16	Synthesis of a Novel Polyethoxysilsesquiazane and Thermal Conversion into Ternary Silicon Oxynitride Ceramics with Enhanced Thermal Stability. <i>Materials</i> , 2017, 10, 1391.	2.9	9
17	A hydrostable mesoporous $\gamma$ -Al <sub>2</sub> O <sub>3</sub> membrane modified with Si-C-H organic-inorganic hybrid derived from polycarbosilane. <i>Journal of Membrane Science</i> , 2020, 598, 117799.	8.2	9
18	Hydrophobicity of amorphous silica-based inorganic-organic hybrid materials derived from perhydropolysilazane chemically modified with alcohols. <i>Microporous and Mesoporous Materials</i> , 2015, 215, 183-190.	4.4	8

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19	High-temperature shrinkage suppression in refractory ceramic fiber board using novel surface coating agent. <i>Ceramics International</i> , 2018, 44, 16725-16731.	4.8	8
20	Proton Incorporation, Mixed Alkaline Effect and $H^+/e^-$ Mixed Conduction of Phosphosilicate Glasses and Glass-ceramics. <i>Electrochemistry</i> , 2014, 82, 901-905.	1.4	7
21	Palm-sized Ag <sup>+</sup> Ion Emission Gun Operated at Room Temperature in Non-Vacuum Atmosphere. <i>Advanced Engineering Materials</i> , 2018, 20, 1800198.	3.5	7
22	Preparation and Fuel Cell Property of a Phosphosilicate Glass with Proton Transport Number $t_{H^+} = 1$ at 400–500°C. <i>Electrochemical and Solid-State Letters</i> , 2011, 14, B63.	2.2	6
23	Proton conduction in nanopores of sol-gel-derived porous glasses and thin films. <i>Journal of Sol-Gel Science and Technology</i> , 2014, 70, 172-179.	2.4	6
24	Ag <sup>+</sup> ion emission from a sharp Ag <sub>2</sub> O-Al <sub>2</sub> O <sub>3</sub> -P <sub>2</sub> O <sub>5</sub> -SiO <sub>2</sub> glass-fiber emitter. <i>Solid State Ionics</i> , 2018, 322, 5-10.	2.7	6
25	Hydrogen transport property of polymer-derived cobalt cation-doped amorphous silica. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 90-99.	6.0	6
26	Proton conduction in glasses prepared via sol-gel and melting techniques. <i>Journal of the Ceramic Society of Japan</i> , 2013, 121, 539-543.	1.1	5
27	Polymer-derived amorphous silica-based inorganic&ndash;organic hybrids having alkoxy groups: intermediates for synthesizing microporous amorphous silica materials. <i>Journal of the Ceramic Society of Japan</i> , 2015, 123, 732-738.	1.1	5
28	Synthesis and characterization of organoamine-functionalized amorphous silica materials for CO <sub>2</sub> -selective membranes. <i>Journal of the Ceramic Society of Japan</i> , 2015, 123, 779-784.	1.1	5
29	Characterization of porous alumina bodies fabricated by high-temperature evaporation of boric acid with sodium impurity. <i>Ceramics International</i> , 2018, 44, 3678-3683.	4.8	5
30	Novel hydrogen chemisorption properties of amorphous ceramic compounds consisting of p-block elements: exploring Lewis acid&ndash;base Al&ndash;N pair sites formed in situ within polymer-derived silicon&ndash;aluminum&ndash;nitrogen-based systems. <i>Journal of Materials Chemistry A</i> , 2021, 9, 2959-2969.	10.3	5
31	Indentation-induced stress distribution and pressure effect on the resistivity of YSZ. <i>Solid State Ionics</i> , 2016, 286, 96-101.	2.7	4
32	Microporosity and CO <sub>2</sub> Capture Properties of Amorphous Silicon Oxynitride Derived from Novel Polyalkoxysilsesquiazanes. <i>Materials</i> , 2018, 11, 422.	2.9	4
33	Formation and Thermal Behaviors of Ternary Silicon Oxycarbides derived from Silsesquioxane Derivatives. <i>Materials</i> , 2019, 12, 1721.	2.9	4
34	Dynamics of proton infiltration into binary MO&ndash;P <sub>2</sub> O <sub>5</sub> (M = Ca, Sr) phosphate glasses. <i>Solid State Ionics</i> , 2019, 335, 151-155.	2.7	4
35	Fluoride ion field emission from a ZBLAC glass emitter. <i>Solid State Ionics</i> , 2020, 353, 115400.	2.7	4
36	Kinetic analysis of crystallization of zeolite beta synthesized by direct heating. <i>Journal of the American Ceramic Society</i> , 2021, 104, 1178-1187.	3.8	4

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37	High-pressure (GPa) impedance measurements based on an indentation-induced local stress field. <i>Solid State Ionics</i> , 2014, 254, 6-10.	2.7	3
38	Growth mechanism of house-of-cards aggregates of alumina platelets containing Na <sub>2</sub> O-B <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> glass flux. <i>Ceramics International</i> , 2020, 46, 9109-9118.	4.8	3
39	Fabrication of highly isotropic porous alumina refractory clinkers consisting of platelets using a gelatin-sol. <i>Journal of Asian Ceramic Societies</i> , 2020, 8, 265-276.	2.3	3
40	Characterization of anisotropic gas permeability and thermomechanical properties of highly textured porous alumina. <i>Journal of the American Ceramic Society</i> , 2022, 105, 6335-6344.	3.8	3
41	Hydrogen Selective SiCH Inorganic-Organic Hybrid <sup>3</sup> -Al <sub>2</sub> O <sub>3</sub> Composite Membranes. <i>Membranes</i> , 2020, 10, 258.	3.0	2
42	Gas permeation and thermomechanical properties for macroporous alumina focused on necking size at grain boundaries. <i>International Journal of Applied Ceramic Technology</i> , 2022, 19, 828-837.	2.1	2
43	Polymer-derived organoamine-functionalized amorphous silica materials for CO <sub>2</sub> capture. <i>Journal of the Ceramic Society of Japan</i> , 2016, 124, 989-995.	1.1	1
44	Improvement in heat resistivity of alkaline earth silicate fiber boards by Al <sub>4</sub> Si <sub>4</sub> coating. <i>International Journal of Applied Ceramic Technology</i> , 2019, 16, 2316-2321.	2.1	1
45	Void Formation/Elimination and Viscoelastic Response of Polyphenylsilsesquioxane Monolith. <i>Materials</i> , 2018, 11, 846.	2.9	0
46	Fabrication and characterization of a novel lightweight adiabatic refractory composite consisting of alkaline earth silicate fibers and SiC particles. <i>Ceramics International</i> , 2019, 45, 23248-23255.	4.8	0
47	Reversible Redox Property of Co(III) in Amorphous Co-doped SiO <sub>2</sub> <sup>3</sup> -Al <sub>2</sub> O <sub>3</sub> Layered Composites. <i>Materials</i> , 2020, 13, 5345.	2.9	0
48	Hydrogen adsorption and electronic structural calculation of a polymer-derived SiCH membrane with a unique affinity for molecular hydrogen. <i>Journal of Sol-Gel Science and Technology</i> , 0, , .	2.4	0