

Yuji Iwamoto

List of Publications by Year in descending order

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93
papers

1,955
citations

257450

24
h-index

276875

41
g-index

95
all docs

95
docs citations

95
times ranked

1953
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of Co-doped Silica for Improved Hydrothermal Stability and Application to Hydrogen Separation Membranes at High Temperatures. <i>Journal of the American Ceramic Society</i> , 2008, 91, 2975-2981.	3.8	162
2	Crystallization Behavior of Amorphous Silicon Carbonitride Ceramics Derived from Organometallic Precursors. <i>Journal of the American Ceramic Society</i> , 2001, 84, 2170-2178.	3.8	122
3	Permeation properties of hydrogen and water vapor through porous silica membranes at high temperatures. <i>AIChE Journal</i> , 2011, 57, 618-629.	3.6	96
4	Solution-Processed VO ₂ -SiO ₂ Composite Films with Simultaneously Enhanced Luminous Transmittance, Solar Modulation Ability and Anti-Oxidation property. <i>Scientific Reports</i> , 2014, 4, 7000.	3.3	90
5	Fabrication of low cost, green silica based ceramic hollow fibre membrane prepared from waste rice husk for water filtration application. <i>Ceramics International</i> , 2018, 44, 10498-10509.	4.8	90
6	Silicon carbide filters and porous membranes: A review of processing, properties, performance and application. <i>Journal of Membrane Science</i> , 2020, 610, 118193.	8.2	87
7	Characterization of Zeolite in Zeolite-Geopolymer Hybrid Bulk Materials Derived from Kaolinitic Clays. <i>Materials</i> , 2013, 6, 1767-1778.	2.9	68
8	One-step hydrothermal synthesis of V _{1-x} W _x O ₂ (M/R) nanorods with superior doping efficiency and thermochromic properties. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3726-3738.	10.3	61
9	Silicon carbide-based membranes with high soot particle filtration efficiency, durability and catalytic activity for CO/HC oxidation and soot combustion. <i>Journal of Membrane Science</i> , 2016, 501, 79-92.	8.2	54
10	Gas Permeation Properties of Amorphous SiC Membranes Synthesized from Polycarbosilane without Oxygen-Curing Process. <i>Journal of the Ceramic Society of Japan</i> , 2006, 114, 533-538.	1.3	50
11	Synthesis and characterization of Mn-activated lithium aluminate red phosphors. <i>Journal of Luminescence</i> , 2013, 136, 411-414.	3.1	47
12	Effect of fabrication parameters on physical properties of metakaolin-based ceramic hollow fibre membrane (CHFM). <i>Ceramics International</i> , 2016, 42, 15547-15558.	4.8	47
13	Polymer-Derived SiBCN Ceramic and their Potential Application for High Temperature Membranes Dedicated to Prof. Dr.-Ing. Dr.h.c. Hartmut Fuess on the occasion of his 65th birthday. <i>Journal of the Ceramic Society of Japan</i> , 2006, 114, 524-528.	1.3	46
14	Fabrication and characterization of hardened bodies from Japanese volcanic ash using geopolymerization. <i>Ceramics International</i> , 2014, 40, 4071-4076.	4.8	43
15	Shape-controlled synthesis and influence of W doping and oxygen nonstoichiometry on the phase transition of VO ₂ . <i>Scientific Reports</i> , 2015, 5, 14087.	3.3	39
16	Precursors-Derived Ceramic Membranes for High-Temperature Separation of Hydrogen. <i>Journal of the Ceramic Society of Japan</i> , 2007, 115, 947-954.	1.1	36
17	A Facile Surfactant-Assisted Reflux Method for the Synthesis of Single-Crystalline Sb ₂ Te ₃ Nanostructures with Enhanced Thermoelectric Performance. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 14263-14271.	8.0	36
18	Synthesis and Characterization of Novel Non-Oxide Sol-Gel Derived Mesoporous Amorphous Si-C-N Membranes. <i>Journal of the Ceramic Society of Japan</i> , 2006, 114, 567-570.	1.3	35

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19	Microstructural development of Si ₃ N ₄ -SiC _{0.5} Y ₂ O ₃ ceramics derived from polymeric precursors. Journal of Materials Research, 1998, 13, 353-361.	2.6	32
20	Multilayer Amorphous Si ₃ N ₄ /SiO ₂ /SiO ₂ Membranes for Hydrogen Purification. Advanced Engineering Materials, 2010, 12, 522-528.	3.5	32
21	Synthesis of Poly-Titanosilazanes and Conversion into Si ₃ N ₄ -TiN Ceramics.. Journal of the Ceramic Society of Japan, 2000, 108, 350-356.	1.3	31
22	Meso-Porous Alumina Capillary Tube as a Support for High-Temperature Gas Separation Membranes by Novel Pulse Sequential Anodic Oxidation Technique. Journal of Materials Research, 2005, 20, 114-120.	2.6	30
23	Synthesis and characterization of Eu ³⁺ doped CaZrO ₃ -based perovskite type phosphors. part II: PL properties related to the two different dominant Eu ³⁺ substitution sites. Journal of Luminescence, 2015, 157, 113-118.	3.1	28
24	Highly active, robust and reusable micro-/mesoporous TiN/Si ₃ N ₄ nanocomposite-based catalysts for clean energy: Understanding the key role of TiN nanoclusters and amorphous Si ₃ N ₄ matrix in the performance of the catalyst system. Applied Catalysis B: Environmental, 2020, 272, 118975.	20.2	28
25	Crosslinking chemistry of poly(vinylmethyl-co-methyl)silazanes toward low-temperature formable preceramic polymers as precursors of functional aluminium-modified Si ₃ N ₄ ceramics. Dalton Transactions, 2018, 47, 14580-14593.	3.3	25
26	Removal of As(III) and As(V) from water using green, silica-based ceramic hollow fibre membranes via direct contact membrane distillation. RSC Advances, 2019, 9, 3367-3376.	3.6	25
27	Fabrication and thermal conductivity of highly porous alumina body from platelets with yeast fungi as a pore forming agent. Ceramics International, 2016, 42, 13882-13887.	4.8	21
28	Anisotropic properties of highly textured porous alumina formed from platelets. Ceramics International, 2016, 42, 1453-1458.	4.8	21
29	Estimation of thermal shock resistance of fine porous alumina by infrared radiation heating method. Journal of the Ceramic Society of Japan, 2009, 117, 1208-1215.	1.1	20
30	Composite Laser Ceramics by Advanced Bonding Technology. Materials, 2018, 11, 271.	2.9	19
31	Phase Transformation, Optical and Emission Performance of Zinc Silicate Glass-Ceramics Phosphor Derived from the ZnO-B ₂ O ₃ -SLS Glass System. Applied Sciences (Switzerland), 2020, 10, 4940.	2.5	18
32	Recent progress on low-cost ceramic membrane for water and wastewater treatment. Ceramics International, 2022, 48, 24157-24191.	4.8	18
33	Development of Fine Porous Alumina Capillaries by a Dry-Wet Spinning Method. Journal of the Ceramic Society of Japan, 2006, 114, 929-933.	1.3	17
34	Influence of the Natural Zeolite Particle Size Toward the Ammonia Adsorption Activity in Ceramic Hollow Fiber Membrane. Membranes, 2020, 10, 63.	3.0	17
35	Polymer-Derived Silicoboron Carbonitride Foams for CO ₂ Capture: From Design to Application as Scaffolds for the in Situ Growth of Metal-Organic Frameworks. Chemistry - A European Journal, 2016, 22, 8346-8357.	3.3	16
36	Mechanism for the formation of SiC by carbothermal reduction reaction using a microwave heating technique. Journal of the Ceramic Society of Japan, 2011, 119, 740-744.	1.1	15

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37	Improvement on characteristics of porous alumina from platelets using a TEOS treatment. <i>Ceramics International</i> , 2013, 39, 1265-1270.	4.8	13
38	Relationship between Eu ³⁺ substitution sites and photoluminescence properties of SrIn ₂ O ₄ :Eu ³⁺ spinel phosphors. <i>Journal of Luminescence</i> , 2016, 169, 78-85.	3.1	13
39	Fabrication of bulk materials with zeolite from coal fly ash. <i>Journal of Material Cycles and Waste Management</i> , 2012, 14, 403-410.	3.0	12
40	Formation of Micro and Mesoporous Amorphous Silica-Based Materials from Single Source Precursors. <i>Inorganics</i> , 2016, 4, 5.	2.7	12
41	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
42	Amine-functionalized polycarbosilane hybrids for CO ₂ -selective membranes. <i>Journal of the European Ceramic Society</i> , 2017, 37, 5213-5221.	5.7	11
43	Influence of Calcination Temperature on Crystal Growth and Optical Characteristics of Eu ³⁺ Doped ZnO/Zn ₂ SiO ₄ Composites Fabricated via Simple Thermal Treatment Method. <i>Crystals</i> , 2021, 11, 115.	2.2	11
44	Dielectric breakdown and thermal conductivity of textured alumina from platelets. <i>Journal of the Ceramic Society of Japan</i> , 2010, 118, 1032-1037.	1.1	10
45	In-situ formation of novel geopolymer-zeolite hybrid bulk materials from coal fly ash powder. <i>Journal of the Ceramic Society of Japan</i> , 2010, 118, 771-774.	1.1	10
46	Organic-inorganic layered membrane for selective hydrogen permeation together with dehydration. <i>Journal of Membrane Science</i> , 2012, 421-422, 124-130.	8.2	10
47	Detoxification of industrial asbestos waste by low-temperature heating in a vacuum. <i>Journal of the Ceramic Society of Japan</i> , 2008, 116, 242-246.	1.1	9
48	Hydrothermal stability of hydrogen permselective amorphous silica membrane synthesized by counter diffusion chemical vapor deposition method. <i>Journal of the Ceramic Society of Japan</i> , 2013, 121, 992-998.	1.1	9
49	H ⁺ 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
50	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
51	A hydrostable mesoporous γ -Al ₂ O ₃ membrane modified with Si-C-H organic-inorganic hybrid derived from polycarbosilane. <i>Journal of Membrane Science</i> , 2020, 598, 117799.	8.2	9
52	Crystal growth and mechanical properties of porous glass-ceramics derived from waste soda-lime-silica glass and clam shells. <i>Journal of Materials Research and Technology</i> , 2020, 9, 9295-9298.	5.8	9
53	Synthesis of Silicon Carbide Ceramics Using Chemically Modified Polycarbosilanes as a Compaction Binder. <i>Journal of the American Ceramic Society</i> , 1999, 82, 2121-2125.	3.8	8
54	Synthesis of microporous amorphous silica from perhydropolysilazane chemically modified with alcohol derivatives. <i>Journal of the Ceramic Society of Japan</i> , 2015, 123, 292-297.	1.1	8

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55	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
56	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
57	Mechanistic Investigation of the Formation of Nickel Nanocrystallites Embedded in Amorphous Silicon Nitride Nanocomposites. <i>Nanomaterials</i> , 2022, 12, 1644.	4.1	8
58	Development of zeolite-derived novel aluminosilicate phosphors. <i>Journal of Luminescence</i> , 2012, 132, 2603-2607.	3.1	7
59	Palmâ€Sized Ag⁺ Ion Emission Gun Operated at Room Temperature in Nonâ€Vacuum Atmosphere. <i>Advanced Engineering Materials</i> , 2018, 20, 1800198.	3.5	7
60	Incorporation of thermally labile additives in polyimide carbon membrane for hydrogen separation. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 24855-24863.	7.1	7
61	Nanostructural characterizations of hydrogen-permselective Siâ€Coâ€O membranes by transmission electron microscopy. <i>Journal of Materials Research</i> , 2009, 24, 372-378.	2.6	6
62	Hydrogen transport property of polymer-derived cobalt cation-doped amorphous silica. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 90-99.	6.0	6
63	Synthesis and mechanical properties of Al ₈ B ₄ C ₇ . <i>Journal of the Ceramic Society of Japan</i> , 2009, 117, 18-21.	1.1	5
64	Synthesis and characterization of luminescent properties of ceramics derived from polysilylcarbodiimides. <i>Journal of the Ceramic Society of Japan</i> , 2014, 122, 895-901.	1.1	5
65	Polymer-derived amorphous silica-based inorganic–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
66	Synthesis and characterization of organoamine-functionalized amorphous silica materials for CO ₂ -selective membranes. <i>Journal of the Ceramic Society of Japan</i> , 2015, 123, 779-784.	1.1	5
67	Hot sulfuric acid-resistance of fly-ash-based geopolymer paste product due to the precipitation of natroalunite crystals. <i>Construction and Building Materials</i> , 2017, 151, 714-719.	7.2	5
68	CaOâ€containing La₃^{OH} nanogears and their luminescence and deâ€^{NO}x properties. <i>Journal of the American Ceramic Society</i> , 2018, 101, 5363-5377.	3.8	5
69	Novel hydrogen chemisorption properties of amorphous ceramic compounds consisting of p-block elements: exploring Lewis acidâ€base Alâ€N pair sites formed in situ within polymer-derived siliconâ€aluminumâ€nitrogen-based systems. <i>Journal of Materials Chemistry A</i> , 2021, 9, 2959-2969.	10.3	5
70	Microporosity and CO ₂ Capture Properties of Amorphous Silicon Oxynitride Derived from Novel Polyalkoxysilsesquiazanes. <i>Materials</i> , 2018, 11, 422.	2.9	4
71	Formation and Thermal Behaviors of Ternary Silicon Oxycarbides derived from Silsesquioxane Derivatives. <i>Materials</i> , 2019, 12, 1721.	2.9	4
72	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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73	Preceramic Polymers as Precursors of Advanced Ceramics: The Polymer-Derived Ceramics (PDCs) Route. , 2021, , 93-102.		4
74	Formation of aluminum nitride from metal–organic precursors synthesized by reacting aluminum tri-chloride with bis(trimethylsilyl)carbodiimide. Journal of the Ceramic Society of Japan, 2015, 123, 106-113.	1.1	3
75	Effect of Grinding Treatment of Fly Ash on Compressive Strength of Hardened Geopolymers using Warm Press Method. MATEC Web of Conferences, 2017, 97, 01120.	0.2	3
76	Novel method to control initial crystallization of Eu ³⁺ doped ZrO ₂ nanophosphors derived from a Solâ€“Gel route based on HNO ₃ and their site-selective photoluminescence. Journal of the Ceramic Society of Japan, 2018, 126, 551-556.	1.1	3
77	Growth mechanism of house-of-cards aggregates of alumina platelets containing Na ₂ Oâ€“B ₂ O ₃ â€“SiO ₂ glass flux. Ceramics International, 2020, 46, 9109-9118.	4.8	3
78	Fabrication of highly isotropic porous alumina refractory clinkers consisting of platelets using a gelatin-sol. Journal of Asian Ceramic Societies, 2020, 8, 265-276.	2.3	3
79	Oxygen separation through p84 copolyimide/nanocrystalline cellulose carbon membrane: Impact of heating rates. Chemical Engineering Communications, 2021, 208, 442-452.	2.6	3
80	Characterization of anisotropic gas permeability and thermomechanical properties of highly textured porous alumina. Journal of the American Ceramic Society, 2022, 105, 6335-6344.	3.8	3
81	Strength and Thermal Shock Properties of Scandia-Doped Zirconia for Thin Electrolyte Sheet of Solid Oxide Fuel Cell. Materials Transactions, 2009, 50, 1742-1746.	1.2	2
82	The influence of coating-carbonization cycles toward P84 co-polyimide/nanocrystalline cellulose. Comptes Rendus Chimie, 2019, 22, 779-785.	0.5	2
83	Hydrogen Selective SiCH Inorganicâ€“Organic Hybrid/ ³ -Al ₂ O ₃ Composite Membranes. Membranes, 2020, 10, 258.	3.0	2
84	Gas permeation and thermomechanical properties for macroporous alumina focused on necking size at grain boundaries. International Journal of Applied Ceramic Technology, 2022, 19, 828-837.	2.1	2
85	Polymer-derived organoamine-functionalized amorphous silica materials for CO ₂ capture. Journal of the Ceramic Society of Japan, 2016, 124, 989-995.	1.1	1
86	Fabrication of SiC hardened bodies with geopolymer binders using a warm press method. AIP Conference Proceedings, 2017, , .	0.4	1
87	Improvement in heat resistivity of alkaline earth silicate fiber boards by Al ₄ SiC ₄ coating. International Journal of Applied Ceramic Technology, 2019, 16, 2316-2321.	2.1	1
88	Chemical route for synthesis of ² -SiAlON:Eu ²⁺ phosphors combining polymer-derived ceramics route with non-hydrolytic sol-gel chemistry. Journal of Sol-Gel Science and Technology, 0, , .	2.4	1
89	Photoluminescence and cathodoluminescence properties of Li ⁺ doped Gd _{1.88} Eu _{0.12} O ₃ . Journal of the Ceramic Society of Japan, 2015, 123, 989-994.	1.1	0
90	Void Formation/Elimination and Viscoelastic Response of Polyphenylsilsesquioxane Monolith. Materials, 2018, 11, 846.	2.9	0

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91	Reversible Redox Property of Co(III) in Amorphous Co-doped SiO ₂ /Al ₂ O ₃ Layered Composites. <i>Materials</i> , 2020, 13, 5345.	2.9	0
92	Stability study of triple layer hollow fiber in solid oxide fuel cell with methane as fuel. <i>Ionics</i> , 2020, 26, 3073-3083.	2.4	0
93	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