

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
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95
all docs

95
docs citations

95
times ranked

1953
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Mechanistic Investigation of the Formation of Nickel Nanocrystallites Embedded in Amorphous Silicon Nitride Nanocomposites. <i>Nanomaterials</i> , 2022, 12, 1644.	4.1	8
3	Recent progress on low-cost ceramic membrane for water and wastewater treatment. <i>Ceramics International</i> , 2022, 48, 24157-24191.	4.8	18
4	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
5	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
6	Hydrogen transport property of polymer-derived cobalt cation-doped amorphous silica. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 90-99.	6.0	6
7	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
8	Oxygen separation through p84 copolyimide/nanocrystalline cellulose carbon membrane: Impact of heating rates. <i>Chemical Engineering Communications</i> , 2021, 208, 442-452.	2.6	3
9	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
10	Pre-ceramic Polymers as Precursors of Advanced Ceramics: The Polymer-Derived Ceramics (PDCs) Route. , 2021, , 93-102.		4
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	Novel hydrogen chemisorption properties of amorphous ceramic compounds consisting of p-block elements: exploring Lewis acid-base Al-N pair sites formed in situ within polymer-derived silicon-aluminum-nitrogen-based systems. <i>Journal of Materials Chemistry A</i> , 2021, 9, 2959-2969.	10.3	5
13	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
14	Growth mechanism of house-of-cards aggregates of alumina platelets containing Na ₂ O-B ₂ O ₃ -SiO ₂ glass flux. <i>Ceramics International</i> , 2020, 46, 9109-9118.	4.8	3
15	Hydrogen Selective SiCH Inorganic-Organic Hybrid/ γ -Al ₂ O ₃ Composite Membranes. <i>Membranes</i> , 2020, 10, 258.	3.0	2
16	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
17	Phase Transformation, Optical and Emission Performance of Zinc Silicate Glass-Ceramics Phosphor Derived from the ZnO-B ₂ O ₃ -SLS Glass System. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4940.	2.5	18
18	Reversible Redox Property of Co(III) in Amorphous Co-doped SiO ₂ / γ -Al ₂ O ₃ Layered Composites. <i>Materials</i> , 2020, 13, 5345.	2.9	0

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19	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
20	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
21	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. <i>Applied Catalysis B: Environmental</i> , 2020, 272, 118975.	20.2	28
22	Influence of the Natural Zeolite Particle Size Toward the Ammonia Adsorption Activity in Ceramic Hollow Fiber Membrane. <i>Membranes</i> , 2020, 10, 63.	3.0	17
23	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
24	The influence of coating-carbonization cycles toward P84 co-polyimide/nanocrystalline cellulose. <i>Comptes Rendus Chimie</i> , 2019, 22, 779-785.	0.5	2
25	Improvement in heat resistivity of alkaline earth silicate fiber boards by Al ₄ SiC ₄ coating. <i>International Journal of Applied Ceramic Technology</i> , 2019, 16, 2316-2321.	2.1	1
26	Removal of As(III) and As(V) from water using green, silica-based ceramic hollow fibre membranes via direct contact membrane distillation. <i>RSC Advances</i> , 2019, 9, 3367-3376.	3.6	25
27	Formation and Thermal Behaviors of Ternary Silicon Oxycarbides derived from Silsesquioxane Derivatives. <i>Materials</i> , 2019, 12, 1721.	2.9	4
28	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
29	Crosslinking chemistry of poly(vinylmethyl-co-methyl)silazanes toward low-temperature formable preceramic polymers as precursors of functional aluminium-modified Si-C-N ceramics. <i>Dalton Transactions</i> , 2018, 47, 14580-14593.	3.3	25
30	Palm-Sized Ag ⁺ Ion Emission Gun Operated at Room Temperature in Non-Vacuum Atmosphere. <i>Advanced Engineering Materials</i> , 2018, 20, 1800198.	3.5	7
31	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
32	CaO-containing LaCO ₃ OH nanogears and their luminescence and deNO _x properties. <i>Journal of the American Ceramic Society</i> , 2018, 101, 5363-5377.	3.8	5
33	Composite Laser Ceramics by Advanced Bonding Technology. <i>Materials</i> , 2018, 11, 271.	2.9	19
34	Microporosity and CO ₂ Capture Properties of Amorphous Silicon Oxynitride Derived from Novel Polyalkoxysilsesquiazanes. <i>Materials</i> , 2018, 11, 422.	2.9	4
35	Void Formation/Elimination and Viscoelastic Response of Polyphenylsilsesquioxane Monolith. <i>Materials</i> , 2018, 11, 846.	2.9	0
36	Novel method to control initial crystallization of Eu ³⁺ doped ZrO ₂ nanophosphors derived from a Sol-Gel route based on HNO ₃ and their site-selective photoluminescence. <i>Journal of the Ceramic Society of Japan</i> , 2018, 126, 551-556.	1.1	3

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37	Amine-functionalized polycarbosilane hybrids for CO ₂ -selective membranes. Journal of the European Ceramic Society, 2017, 37, 5213-5221.	5.7	11
38	Fabrication of SiC hardened bodies with geopolymer binders using a warm press method. AIP Conference Proceedings, 2017, . .	0.4	1
39	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
40	H ⁺ emission under room temperature and non-vacuum atmosphere from a sol-gel-derived nanoporous emitter. Journal of Sol-Gel Science and Technology, 2017, 83, 252-258.	2.4	9
41	Hot sulfuric acid-resistance of fly-ash-based geopolymer paste product due to the precipitation of natroalunite crystals. Construction and Building Materials, 2017, 151, 714-719.	7.2	5
42	Synthesis of a Novel Polyethoxysilsesquiazane and Thermal Conversion into Ternary Silicon Oxynitride Ceramics with Enhanced Thermal Stability. Materials, 2017, 10, 1391.	2.9	9
43	Formation of Micro and Mesoporous Amorphous Silica-Based Materials from Single Source Precursors. Inorganics, 2016, 4, 5.	2.7	12
44	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
45	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
46	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
47	Effect of fabrication parameters on physical properties of metakaolin-based ceramic hollow fibre membrane (CHFM). Ceramics International, 2016, 42, 15547-15558.	4.8	47
48	Silicon carbide-based membranes with high soot particle filtration efficiency, durability and catalytic activity for CO/HC oxidation and soot combustion. Journal of Membrane Science, 2016, 501, 79-92.	8.2	54
49	Relationship between Eu ³⁺ substitution sites and photoluminescence properties of SrIn ₂ O ₄ :Eu ³⁺ spinel phosphors. Journal of Luminescence, 2016, 169, 78-85.	3.1	13
50	Anisotropic properties of highly textured porous alumina formed from platelets. Ceramics International, 2016, 42, 1453-1458.	4.8	21
51	Polymer-derived amorphous silica-based inorganic-organic hybrids having alkoxy groups: intermediates for synthesizing microporous amorphous silica materials. Journal of the Ceramic Society of Japan, 2015, 123, 732-738.	1.1	5
52	Synthesis of microporous amorphous silica from perhydropolysilazane chemically modified with alcohol derivatives. Journal of the Ceramic Society of Japan, 2015, 123, 292-297.	1.1	8
53	Synthesis and characterization of organoamine-functionalized amorphous silica materials for CO ₂ -selective membranes. Journal of the Ceramic Society of Japan, 2015, 123, 779-784.	1.1	5
54	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

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55	Shape-controlled synthesis and influence of W doping and oxygen nonstoichiometry on the phase transition of VO ₂ . Scientific Reports, 2015, 5, 14087.	3.3	39
56	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
57	Hydrophobicity of amorphous silica-based inorganic-organic hybrid materials derived from perhydropolysilazane chemically modified with alcohols. Microporous and Mesoporous Materials, 2015, 215, 183-190.	4.4	8
58	A Facile Surfactant-Assisted Reflux Method for the Synthesis of Single-Crystalline Sb ₂ Te ₃ Nanostructures with Enhanced Thermoelectric Performance. ACS Applied Materials & Interfaces, 2015, 7, 14263-14271.	8.0	36
59	One-step hydrothermal synthesis of V ^x W _x O ₂ (M/R) nanorods with superior doping efficiency and thermochromic properties. Journal of Materials Chemistry A, 2015, 3, 3726-3738.	10.3	61
60	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
61	Fabrication and characterization of hardened bodies from Japanese volcanic ash using geopolymerization. Ceramics International, 2014, 40, 4071-4076.	4.8	43
62	Synthesis and characterization of luminescent properties of ceramics derived from polysilylcarbodiimides. Journal of the Ceramic Society of Japan, 2014, 122, 895-901.	1.1	5
63	Solution-Processed VO ₂ -SiO ₂ Composite Films with Simultaneously Enhanced Luminous Transmittance, Solar Modulation Ability and Anti-Oxidation property. Scientific Reports, 2014, 4, 7000.	3.3	90
64	Improvement on characteristics of porous alumina from platelets using a TEOS treatment. Ceramics International, 2013, 39, 1265-1270.	4.8	13
65	Synthesis and characterization of Mn-activated lithium aluminate red phosphors. Journal of Luminescence, 2013, 136, 411-414.	3.1	47
66	Characterization of Zeolite in Zeolite-Geopolymer Hybrid Bulk Materials Derived from Kaolinitic Clays. Materials, 2013, 6, 1767-1778.	2.9	68
67	Hydrothermal stability of hydrogen permselective amorphous silica membrane synthesized by counter diffusion chemical vapor deposition method. Journal of the Ceramic Society of Japan, 2013, 121, 992-998.	1.1	9
68	Organic–inorganic layered membrane for selective hydrogen permeation together with dehydration. Journal of Membrane Science, 2012, 421-422, 124-130.	8.2	10
69	Fabrication of bulk materials with zeolite from coal fly ash. Journal of Material Cycles and Waste Management, 2012, 14, 403-410.	3.0	12
70	Development of zeolite-derived novel aluminosilicate phosphors. Journal of Luminescence, 2012, 132, 2603-2607.	3.1	7
71	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
72	Permeation properties of hydrogen and water vapor through porous silica membranes at high temperatures. AIChE Journal, 2011, 57, 618-629.	3.6	96

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73	Dielectric breakdown and thermal conductivity of textured alumina from platelets. Journal of the Ceramic Society of Japan, 2010, 118, 1032-1037.	1.1	10
74	In-situ formation of novel geopolymer-zeolite hybrid bulk materials from coal fly ash powder. Journal of the Ceramic Society of Japan, 2010, 118, 771-774.	1.1	10
75	Multilayer Amorphous $\text{Si}_3\text{N}_4/\text{Al}_2\text{O}_3/\text{Al}_2\text{O}_3$ Membranes for Hydrogen Purification. Advanced Engineering Materials, 2010, 12, 522-528.	3.5	32
76	Nanostructural characterizations of hydrogen-permselective $\text{Si}-\text{Co}-\text{O}$ membranes by transmission electron microscopy. Journal of Materials Research, 2009, 24, 372-378.	2.6	6
77	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
78	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
79	Synthesis and mechanical properties of $\text{Al}_8\text{B}_4\text{C}_7$. Journal of the Ceramic Society of Japan, 2009, 117, 18-21.	1.1	5
80	Characterization of $\text{Co}-\text{Doped}$ Silica for Improved Hydrothermal Stability and Application to Hydrogen Separation Membranes at High Temperatures. Journal of the American Ceramic Society, 2008, 91, 2975-2981.	3.8	162
81	Detoxification of industrial asbestos waste by low-temperature heating in a vacuum. Journal of the Ceramic Society of Japan, 2008, 116, 242-246.	1.1	9
82	Precursors-Derived Ceramic Membranes for High-Temperature Separation of Hydrogen. Journal of the Ceramic Society of Japan, 2007, 115, 947-954.	1.1	36
83	Gas Permeation Properties of Amorphous SiC Membranes Synthesized from Polycarbosilane without Oxygen-Curing Process. Journal of the Ceramic Society of Japan, 2006, 114, 533-538.	1.3	50
84	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
85	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. Journal of the Ceramic Society of Japan, 2006, 114, 524-528.	1.3	46
86	Synthesis and Characterization of Novel Non-Oxide Sol-Gel Derived Mesoporous Amorphous Si-C-N Membranes. Journal of the Ceramic Society of Japan, 2006, 114, 567-570.	1.3	35
87	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
88	Crystallization Behavior of Amorphous Silicon Carbonitride Ceramics Derived from Organometallic Precursors. Journal of the American Ceramic Society, 2001, 84, 2170-2178.	3.8	122
89	Synthesis of Poly-Titanosilazanes and Conversion into $\text{Si}_3\text{N}_4\text{-TiN}$ Ceramics.. Journal of the Ceramic Society of Japan, 2000, 108, 350-356.	1.3	31
90	Synthesis of Silicon Carbide Ceramics Using Chemically Modified Polycarbosilanes as a Compaction Binder. Journal of the American Ceramic Society, 1999, 82, 2121-2125.	3.8	8

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91	Microstructural development of Si ₃ N ₄ -SiC-Y ₂ O ₃ ceramics derived from polymeric precursors. Journal of Materials Research, 1998, 13, 353-361.	2.6	32
92	Chemical route for synthesis of β -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
93	Hydrogen adsorption and electronic structural calculation of a polymer-derived SiCH membrane with a unique affinity for molecular hydrogen. Journal of Sol-Gel Science and Technology, 0, , .	2.4	0