Sawao Honda

List of Publications by Year in descending order

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64 papers	820 citations	567281 15 h-index	552781 26 g-index
64 all docs	64 docs citations	64 times ranked	913 citing authors

#	Article	IF	Citations
1	Fabrication of low cost, green silica based ceramic hollow fibre membrane prepared from waste rice husk for water filtration application. Ceramics International, 2018, 44, 10498-10509.	4.8	90
2	Characterization of Zeolite in Zeolite-Geopolymer Hybrid Bulk Materials Derived from Kaolinitic Clays. Materials, 2013, 6, 1767-1778.	2.9	68
3	Fabrication of porous spinel (MgAl2O4) from porous alumina using a template method. Ceramics International, 2013, 39, 2077-2081.	4.8	54
4	Effect of fabrication parameters on physical properties of metakaolin-based ceramic hollow fibre membrane (CHFM). Ceramics International, 2016, 42, 15547-15558.	4.8	47
5	Fabrication and characterization of hardened bodies from Japanese volcanic ash using geopolymerization. Ceramics International, 2014, 40, 4071-4076.	4.8	43
6	A Facile Surfactant-Assisted Reflux Method for the Synthesis of Single-Crystalline Sb₂Te₃ Nanostructures with Enhanced Thermoelectric Performance. ACS Applied Materials & Interfaces, 2015, 7, 14263-14271.	8.0	36
7	Synthesis and characterization of Eu3+ doped CaZrO3-based perovskite type phosphors. part II: PL properties related to the two different dominant Eu3+ substitution sites. Journal of Luminescence, 2015, 157, 113-118.	3.1	28
8	Grain boundary thermal resistance and finite grain size effects for heat conduction through porous polycrystalline alumina. International Journal of Heat and Mass Transfer, 2018, 121, 1273-1280.	4.8	25
9	Removal of As(<scp>iii</scp>) and As(<scp>v</scp>) from water using green, silica-based ceramic hollow fibre membranes via direct contact membrane distillation. RSC Advances, 2019, 9, 3367-3376.	3.6	25
10	Thermal Shock Parameters of Ceramics Evaluated by Infrared Radiation Heating.. JSME International Journal Series A-Solid Mechanics and Material Engineering, 1997, 40, 414-422.	0.4	21
11	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
12	Anisotropic properties of highly textured porous alumina formed from platelets. Ceramics International, 2016, 42, 1453-1458.	4.8	21
13	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
14	Composite Laser Ceramics by Advanced Bonding Technology. Materials, 2018, 11, 271.	2.9	19
15	Influence of the Natural Zeolite Particle Size Toward the Ammonia Adsorption Activity in Ceramic Hollow Fiber Membrane. Membranes, 2020, 10, 63.	3.0	17
16	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
17	Improvement on characteristics of porous alumina from platelets using a TEOS treatment. Ceramics International, 2013, 39, 1265-1270.	4.8	13
18	Fabrication of bulk materials with zeolite from coal fly ash. Journal of Material Cycles and Waste Management, 2012, 14, 403-410.	3.0	12

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19	Formation of Micro and Mesoporous Amorphous Silica-Based Materials from Single Source Precursors. Inorganics, 2016, 4, 5.	2.7	12
20	Low temperaturein situformation of cobalt in silicon nitride toward functional nitride nanocomposites. Chemical Communications, 2021, 57, 2057-2060.	4.1	12
21	Amine-functionalized polycarbosilane hybrids for CO2-selective membranes. Journal of the European Ceramic Society, 2017, 37, 5213-5221.	5.7	11
22	Influence of Calcination Temperature on Crystal Growth and Optical Characteristics of Eu3+ Doped ZnO/Zn2SiO4 Composites Fabricated via Simple Thermal Treatment Method. Crystals, 2021, 11, 115.	2.2	11
23	Comminution of Asbestos by a Mechanical Grinding in Asbestos-Containing Cement Board. Journal of the Ceramic Society of Japan, 2005, 113, 804-807.	1.3	10
24	Dielectric breakdown and thermal conductivity of textured alumina from platelets. Journal of the Ceramic Society of Japan, 2010, 118, 1032-1037.	1.1	10
25	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
26	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
27	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
28	H+ emission under room temperature and non-vacuum atmosphere from a solâ€“gel-derived nanoporous emitter. Journal of Sol-Gel Science and Technology, 2017, 83, 252-258.	2.4	9
29	Synthesis of a Novel Polyethoxysilsesquiazane and Thermal Conversion into Ternary Silicon Oxynitride Ceramics with Enhanced Thermal Stability. Materials, 2017, 10, 1391.	2.9	9
30	Crystal growth and mechanical properties of porous glass-ceramics derived from waste soda-lime-silica glass and clam shells. Journal of Materials Research and Technology, 2020, 9, 9295-9298.	5.8	9
31	High-temperature shrinkage suppression in refractory ceramic fiber board using novel surface coating agent. Ceramics International, 2018, 44, 16725-16731.	4.8	8
32	Mechanistic Investigation of the Formation of Nickel Nanocrystallites Embedded in Amorphous Silicon Nitride Nanocomposites. Nanomaterials, 2022, 12, 1644.	4.1	8
33	Evaluation of Heated Chrysotile Using Phase-Contrast Microscope. Journal of the Ceramic Society of Japan, 2006, 114, 716-718.	1.3	7
34	Palmâ€Sized Ag⁺ Ion Emission Gun Operated at Room Temperature in Nonâ€Vacuum Atmosphere. Advanced Engineering Materials, 2018, 20, 1800198.	3.5	7
35	Hydrogen transport property of polymer-derived cobalt cation-doped amorphous silica. Inorganic Chemistry Frontiers, 2021, 8, 90-99.	6.0	6
36	Detoxification of Asbestos-Containing Building Material Waste and Its Application to Cement Product. Journal of the Ceramic Society of Japan, 2007, 115, 290-293.	1.3	5

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37	Synthesis and mechanical properties of Al8B4C7. Journal of the Ceramic Society of Japan, 2009, 117, 18-21.	1.1	5
38	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
39	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
40	Synthesis and characterization of organoamine-functionalized amorphous silica materials for CO₂-selective membranes. Journal of the Ceramic Society of Japan, 2015, 123, 779-784.	1.1	5
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	Characterization of porous alumina bodies fabricated by high-temperature evaporation of boric acid with sodium impurity. Ceramics International, 2018, 44, 3678-3683.	4.8	5
43	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. Journal of Materials Chemistry A, 2021, 9, 2959-2969.	10.3	5
44	Detoxification of Sprayed Crocidolite. Journal of the Ceramic Society of Japan, 2006, 114, 1150-1154.	1.3	4
45	Microporosity and CO2 Capture Properties of Amorphous Silicon Oxynitride Derived from Novel Polyalkoxysilsesquiazanes. Materials, 2018, 11, 422.	2.9	4
46	Formation and Thermal Behaviors of Ternary Silicon Oxycarbides derived from Silsesquioxane Derivatives. Materials, 2019, 12, 1721.	2.9	4
47	Characteristics of castables incorporating highly porous alumina aggregates fabricated by high-temperature evaporation method. Ceramics International, 2019, 45, 13509-13517.	4.8	4
48	Kinetic analysis of crystallization of zeolite beta synthesized by direct heating. Journal of the American Ceramic Society, 2021, 104, 1178-1187.	3.8	4
49	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
50	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
51	Growth mechanism of house-of-cards aggregates of alumina platelets containing Na2Oâ€“B2O3â€“SiO2 glass flux. Ceramics International, 2020, 46, 9109-9118.	4.8	3
52	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
53	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
54	Detoxification of Sprayed Amosite. Journal of the Ceramic Society of Japan, 2007, 115, 562-566.	1.1	2

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55	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
56	Hydrogen Selective SiCH Inorganicâ€“Organic Hybrid/Î³-Al2O3 Composite Membranes. Membranes, 2020, 10, 258.	3.0	2
57	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
58	Polymer-derived organoamine-functionalized amorphous silica materials for CO₂ capture. Journal of the Ceramic Society of Japan, 2016, 124, 989-995.	1.1	1
59	Fabrication of SiC hardened bodies with geopolymer binders using a warm press method. AIP Conference Proceedings, 2017, , .	0.4	1
60	Improvement in heat resistivity of alkaline earth silicate fiber boards by Al₄SiC₄ coating. International Journal of Applied Ceramic Technology, 2019, 16, 2316-2321.	2.1	1
61	Sinterâ€Crystallization and Optical Characterization of Dy ³⁺ : ZnOâ€B ₂ O ₃ â€RHA Glassâ€Ceramics. Macromolecular Symposia, 2022, 401, 2100316.	0.7	1
62	Chemical route for synthesis of Î²-SiAlON:Eu2+ phosphors combining polymer-derived ceramics route with non-hydrolytic sol-gel chemistry. Journal of Sol-Gel Science and Technology, 0, , .	2.4	1
63	Void Formation/Elimination and Viscoelastic Response of Polyphenylsilsesquioxane Monolith. Materials, 2018, 11, 846.	2.9	0
64	Reversible Redox Property of Co(III) in Amorphous Co-doped SiO2/Î³-Al2O3 Layered Composites. Materials, 2020, 13, 5345.	2.9	0