Ayumu Onda

List of Publications by Year
in descending order

72	2,788	218677	175258
papers	citations	26 h-index	52 g-index

73	73	73	3251
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Preparation of reformed MgO filler with high humidity resistance by a hydrothermal coating technique.. Journal of Asian Ceramic Societies, 2021, 9, 262-269.	2.3	0
2	Hydrothermal Synthesis of Various Shape-Controlled Europium Hydroxides. Nanomaterials, 2021, 11, 529.	4.1	8
3	The Role of the Surface Acidâ€“Base Nature of Nanocrystalline Hydroxyapatite Catalysts in the 1,6-Hexanediol Conversion. Nanomaterials, 2021, 11, 659.	4.1	6
4	Photocatalytic hydrogenation of nitrobenzene to aniline over titanium(<scp>iv</scp>) oxide using various saccharides instead of hydrogen gas. RSC Advances, 2021, 11, 32300-32304.	3.6	4
5	Hydrolysis of Oligosaccharides and Polysaccharides on Sulfonated Solid Acid Catalysts: Relations between Adsorption Properties and Catalytic Activities. ACS Omega, 2020, 5, 24964-24972.	3.5	16
6	Fourfold daily growth rate in multicellular marine alga Ulva meridionalis. Scientific Reports, 2020, 10, 12606.	3.3	19
7	Probing rapid carbon fixation in fast-growing seaweed Ulva meridionalis using stable isotope 13C-labelling. Scientific Reports, 2020, 10, 20399.	3.3	11
8	Microwave-assisted solubilization of microalgae in high-temperature ethylene glycol. Biomass and Bioenergy, 2019, 130, 105360.	5.7	7
9	Fractionation of plant-cuticle-based bio-oils by microwave-assisted methanolysis combined with hydrothermal pretreatment and enzymatic hydrolysis. Heliyon, 2019, 5, e01887.	3.2	2
10	Synthesis of Novel Layered Zinc Glycolate and Exchange of Ethylene Glycol with Manganese Acetate Complex. Bulletin of the Chemical Society of Japan, 2018, 91, 1546-1552.	3.2	6
11	Photocatalytic chemoselective cleavage of Câ€“O bonds under hydrogen gas- and acid-free conditions. Chemical Communications, 2018, 54, 7298-7301.	4.1	5
12	Catalytic Hydrolysis of Polysaccharides Derived from Fastâ€Growing Green Macroalgae. ChemCatChem, 2017, 9, 2638-2641.	3.7	11
13	Lowâ€Temperature Direct Catalytic Hydrothermal Conversion of Biomass Cellulose to Light Hydrocarbons over Pt/Zeolite Catalysts. ChemistrySelect, 2017, 2, 6201-6205.	1.5	8
14	Synthesis and characterization of glycolate precursors to MTiO₃ (MÂ=ÂNi²⁺,) Tj ETQq0 0 0 rgBT /Overlock 10	2.3	8
15	Is Selective Heating of the Sulfonic Acid Catalyst AC-SO3H by Microwave Radiation Crucial in the Acid Hydrolysis of Cellulose to Glucose in Aqueous Media?. Catalysts, 2017, 7, 231.	3.5	10
16	Production of Glucaric/Gluconic Acid from Biomass by Chemical Processes Using Heterogeneous Catalysts. Biofuels and Biorefineries, 2017, , 207-230.	0.5	2
17	A Study of Hydrothermal Synthesis of Apatite Compound Particles and Applications for Catalytic Conversions of Biomass Derivatives. Journal of Smart Processing, 2016, 5, 327-333.	0.1	0
18	Microwave-assisted hydrothermal extraction of sulfated polysaccharides from Ulva spp. and Monostroma latissimum. Food Chemistry, 2016, 210, 311-316.	8.2	101

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19	Effects of ionic conduction on hydrothermal hydrolysis of corn starch and crystalline cellulose induced by microwave irradiation. Carbohydrate Polymers, 2016, 137, 594-599.	10.2	19
20	One pot direct catalytic conversion of cellulose to C3 and C4 hydrocarbons using Pt/H-USY zeolite catalyst at low temperature. Fuel Processing Technology, 2016, 141, 123-129.	7.2	12
21	Hydrothermal synthesis of spindle-like architectures of terbium hydroxide. Journal of the Ceramic Society of Japan, 2015, 123, 672-676.	1.1	3
22	Densification behavior of hydroxyapatite green pellets prepared by different methods. Journal of the Ceramic Society of Japan, 2015, 123, 1097-1101.	1.1	5
23	Selective conversion of lactic acid into acrylic acid over hydroxyapatite catalysts. Catalysis Communications, 2014, 48, 5-10.	3.3	48
24	Acrylic acid synthesis from lactic acid over hydroxyapatite catalysts with various cations and anions. Catalysis Today, 2014, 226, 192-197.	4.4	52
25	Hydrolysis of green-tide forming Ulva spp. by microwave irradiation with polyoxometalate clusters. Green Chemistry, 2014, 16, 2227.	9.0	33
26	New extraction procedure for protonated polyoxometalates prepared in aqueous-organic solution and characterisation of their catalytic ability. Applied Catalysis A: General, 2014, 485, 181-187.	4.3	14
27	Comparative decomposition kinetics of neutral monosaccharides by microwave and induction heating treatments. Carbohydrate Research, 2013, 375, 1-4.	2.3	23
28	Role of Structural Similarity Between Starting Zeolite and Product Zeolite in the Interzeolite Conversion Process. Journal of Nanoscience and Nanotechnology, 2013, 13, 3020-3026.	0.9	67
29	Preparation of Î²-CaSiO₃ powder by water vapor-assisted solid-state reaction. Journal of the Ceramic Society of Japan, 2013, 121, 103-105.	1.1	13
30	Selective Hydrolysis of Cellulose and Polysaccharides into Sugars by Catalytic Hydrothermal Method Using Sulfonated Activated-carbon. Journal of the Japan Petroleum Institute, 2012, 55, 73-86.	0.6	23
31	1-Butanol synthesis from ethanol over strontium phosphate hydroxyapatite catalysts with various Sr/P ratios. Journal of Catalysis, 2012, 296, 24-30.	6.2	139
32	Synthesis and growth mechanism of monodispersed MoS2 sheets/carbon microspheres. CrystEngComm, 2012, 14, 3027.	2.6	17
33	New direct production of gluconic acid from polysaccharides using a bifunctional catalyst in hot water. Catalysis Communications, 2011, 12, 421-425.	3.3	56
34	Effect of water vapor on the thermal decomposition process of zinc hydroxide chloride and crystal growth of zinc oxide. Journal of Solid State Chemistry, 2011, 184, 589-596.	2.9	36
35	Selective synthesis of 1-butanol from ethanol over strontium phosphate hydroxyapatite catalysts. Applied Catalysis A: General, 2011, 402, 188-195.	4.3	151
36	Thermal decomposition of chrysotile-containing wastes in a water vapor atmosphere. Journal of the Ceramic Society of Japan, 2010, 118, 1199-1201.	1.1	18

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37	Preparation of alkaline-earth titanates by accelerated solid-state reaction in water vapor atmosphere. Journal of the European Ceramic Society, 2010, 30, 3435-3443.	5.7	13
38	Crystallographic study of lead-substituted hydroxyapatite synthesized by high-temperature mixing method under hydrothermal conditions. Inorganica Chimica Acta, 2010, 363, 1785-1790.	2.4	19
39	Hydrothermal Sintering under Mild Temperature Conditions: Preparation of Calcium-deficient Hydroxyapatite Compacts. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2010, 65, 1038-1044.	0.7	14
40	Morphology variation of cadmium hydroxyapatite synthesized by high temperature mixing method under hydrothermal conditions. Materials Chemistry and Physics, 2009, 113, 239-243.	4.0	32
41	Synthesis and crystallographic study of Pbâ€“Sr hydroxyapatite solid solutions by high temperature mixing method under hydrothermal conditions. Materials Research Bulletin, 2009, 44, 1392-1396.	5.2	25
42	Hydrolysis of Cellulose Selectively into Glucose Over Sulfonated Activated-Carbon Catalyst Under Hydrothermal Conditions. Topics in Catalysis, 2009, 52, 801-807.	2.8	174
43	Accelerated formation of barium titanate by solid-state reaction in water vapour atmosphere. Journal of the European Ceramic Society, 2009, 29, 3259-3264.	5.7	31
44	A novel decomposition technique of friable asbestos by CHClF2-decomposed acidic gas. Journal of Hazardous Materials, 2009, 163, 593-599.	12.4	30
45	Accelerated Formation of Î²-Dicalcium Silicate by Solid-state Reaction in Water Vapor Atmosphere. Chemistry Letters, 2009, 38, 476-477.	1.3	8
46	Hydrothermal fractional pretreatment of sea algae and its enhanced enzymatic hydrolysis. Journal of Chemical Technology and Biotechnology, 2008, 83, 836-841.	3.2	37
47	A new chemical process for catalytic conversion of d-glucose into lactic acid and gluconic acid. Applied Catalysis A: General, 2008, 343, 49-54.	4.3	113
48	Hydrothermal synthesis of vanadate-substituted hydroxyapatites, and catalytic properties for conversion of 2-propanol. Applied Catalysis A: General, 2008, 348, 129-134.	4.3	49
49	Selective hydrolysis of cellulose into glucose over solid acid catalysts. Green Chemistry, 2008, 10, 1033.	9.0	555
50	Hydrothermal synthesis of vanadate/phosphate hydroxyapatite solid solutions. Materials Letters, 2008, 62, 1406-1409.	2.6	34
51	Lactic acid production from glucose over activated hydrotalcites as solid base catalysts in water. Catalysis Communications, 2008, 9, 1050-1053.	3.3	81
52	Hydrothermal Synthesis and Crystallographic Study of Sr-Pb Hydroxyapatite Solid Solutions. Journal of the Ceramic Society of Japan, 2007, 115, 873-876.	1.1	7
53	Hydrothermal Synthesis of Boehmite Plate Crystals. Journal of the Ceramic Society of Japan, 2007, 115, 894-897.	1.1	6
54	Low-Temperature Activation of Branched Octane Isomers over Lanthanum-Exchanged Zeolite X Catalysts. Journal of Physical Chemistry C, 2007, 111, 210-218.	3.1	26

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55	Adsorption and Polarization of Branched Alkanes on Hâ^LaX. Journal of Physical Chemistry C, 2007, 111, 5454-5464.	3.1	24
56	HYDROTHERMAL SYNTHESIS AND PARTICLE SIZE CONTROL OF HYDROXYAPATITE SOLID SOLUTIONS WITH VANADATE. Phosphorus Research Bulletin, 2007, 21, 84-87.	0.6	11
57	Synthesis of manganese oxide octahedral molecular sieves containing cobalt, nickel, or magnesium, and the catalytic properties for hydration of acrylonitrile. Applied Catalysis A: General, 2007, 321, 71-78.	4.3	25
58	Catalytic Performance of Autoclave Liners in the Wet Oxidation of Naphthalene. Industrial & Engineering Chemistry Research, 2006, 45, 2194-2198.	3.7	3
59	Stability and Phase Relations of Dicalcium Silicate Hydrates under Hydrothermal Conditions. Journal of the Ceramic Society of Japan, 2006, 114, 174-179.	1.3	28
60	Hydration of Î²-dicalcium silicate at high temperatures under hydrothermal conditions. Cement and Concrete Research, 2006, 36, 810-816.	11.0	46
61	Preferential occupancy of metal ions in the hydroxyapatite solid solutions synthesized by hydrothermal method. Journal of the European Ceramic Society, 2006, 26, 509-513.	5.7	107
62	Development of a technique to prepare porous materials from glasses. Journal of the European Ceramic Society, 2006, 26, 761-765.	5.7	14
63	HYDROTHERMAL PREPARATION OF HYDROXYAPATITE SOLID SOLUTIONS WITH VARIOUS METAL IONS. Phosphorus Research Bulletin, 2005, 19, 99-105.	0.6	0
64	Characterizations and catalytic properties of fine particles of Niâ€“Sn intermetallic compounds supported on SiO2. Journal of Catalysis, 2004, 221, 378-385.	6.2	46
65	Hydrothermal synthesis and morphology variation of cadmium hydroxyapatite. Journal of Solid State Chemistry, 2004, 177, 4379-4385.	2.9	26
66	HYDROTHERMAL SYNTHESIS AND CRYSTALLOGRAPHIC STUDY OF Ca-Sr HYDROXYAPATITE SOLID SOLUTIONS. Phosphorus Research Bulletin, 2004, 17, 215-220.	0.6	8
67	DEVELOPMENT OF LOW TEMPERATURE SINTERING OF HYDROXYAPATITE CERAMICS USING HYDROTHERMAL HOT-PRESSING METHOD. Phosphorus Research Bulletin, 2004, 17, 231-234.	0.6	3
68	Nano-size particles of palladium intermetallic compounds as catalysts for oxidative acetoxylation. Applied Catalysis A: General, 2003, 251, 315-326.	4.3	72
69	HYDROTHERMAL AND HYDROTHERMAL-ELECTROCHEMICAL GROWTH OF COMPLEX OXIDE THIN FILMS RELEVANT TO MICROELECTRONICS. , 2003, , .		0
70	Non-aqueous Synthesis and Structure of a Novel Monodimensional Zirconium Phosphate: [NH4]3[Zr(OH)2(PO4)(HPO4)]. Chemistry Letters, 2002, 31, 398-399.	1.3	16
71	Preparation and Catalytic Properties of Single-Phase Niâ€“Sn Intermetallic Compound Particles by CVD of Sn(CH3)4 onto Ni/Silica. Journal of Catalysis, 2001, 201, 13-21.	6.2	65
72	Characterization and catalytic properties of Niâ€“Sn intermetallic compounds in acetylene hydrogenation. Physical Chemistry Chemical Physics, 2000, 2, 2999-3005.	2.8	87