

Hye Young Koo

List of Publications by Year in descending order

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70
papers

916
citations

516215

16
h-index

500791

28
g-index

70
all docs

70
docs citations

70
times ranked

1195
citing authors

#	ARTICLE	IF	CITATIONS
1	Hybrid Bead Air Filters with Low Pressure Drops at a High Flow Rate for the Removal of Particulate Matter and HCHO. <i>Polymers</i> , 2022, 14, 422.	2.0	2
2	Solar-Driven Unmanned Hazardous and Noxious Substance Trapping Devices Equipped with Reverse Piloti Structures and Cooling Systems. <i>Polymers</i> , 2022, 14, 631.	2.0	1
3	Ultrasonic spray pyrolysis for air-stable copper particles and their conductive films. <i>Acta Materialia</i> , 2021, 206, 116569.	3.8	16
4	Lattice Deformation-Induced Enhancement in Thermoelectric Properties of p-Type Bismuth Telluride-Based Alloys. <i>Science of Advanced Materials</i> , 2021, 13, 1358-1363.	0.1	1
5	Characterization of Bi α Te p-Type Thermoelectric Materials Produced by Uniaxial and Hydrostatic Sintering Technologies. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 427-432.	0.9	2
6	NiCo ₂ S ₄ Nanotrees Directly Grown on the Nickel NP-Doped Reduced Graphene Oxides for Efficient Supercapacitors. <i>Materials</i> , 2019, 12, 2865.	1.3	4
7	A lottery draw machine-inspired movable air filter with high removal efficiency and low pressure drop at a high flow rate. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6001-6011.	5.2	12
8	Surface Design of Separators for Oil/Water Separation with High Separation Capacity and Mechanical Stability. <i>Langmuir</i> , 2017, 33, 8012-8022.	1.6	11
9	Facile synthesis of mesoporous SiO ₂ nanoparticles using the mobility differences of etchants. <i>RSC Advances</i> , 2015, 5, 26223-26230.	1.7	4
10	The effect of loading on sintering and catalytic activity of Pt/SiO ₂ hybrid catalyst powders synthesized via spray pyrolysis. <i>Korean Journal of Chemical Engineering</i> , 2014, 31, 1980-1984.	1.2	5
11	Defect healing of reduced graphene oxide via intramolecular cross-dehydrogenative coupling. <i>Nanotechnology</i> , 2013, 24, 185604.	1.3	47
12	Gold nanoparticle-doped graphene nanosheets: sub-nanosized gold clusters nucleate and grow at the nitrogen-induced defects on graphene surfaces. <i>Journal of Materials Chemistry</i> , 2012, 22, 7130.	6.7	26
13	Large-Scale Synthesis and CO Oxidation Study of FeCr Alloy Supported Pt Nanocatalyst by Electrical Wire Explosion Process. <i>Catalysis Letters</i> , 2012, 142, 326-331.	1.4	9
14	Pb-free glass frits prepared by spray pyrolysis as inorganic binders of Al electrodes in Si solar cells. <i>Journal of Alloys and Compounds</i> , 2011, 509, 6325-6331.	2.8	25
15	Characteristics of ZnO α B ₂ O ₃ α SiO ₂ α CaO glass frits prepared by spray pyrolysis as inorganic binder for Cu electrode. <i>Journal of Alloys and Compounds</i> , 2011, 509, 8077-8081.	2.8	11
16	Characteristics of nano-sized Ag-Pd (70-30)-glass composite powders prepared by flame spray pyrolysis. <i>Journal of the Ceramic Society of Japan</i> , 2011, 119, 23-28.	0.5	1
17	Properties of La _{0.8} Sr _{0.2} Ca _{0.8} Mg _{0.2} O _{2.8} electrolyte formed from the nano-sized powders prepared by spray pyrolysis. <i>Journal of the Ceramic Society of Japan</i> , 2011, 119, 752-756.	0.5	0
18	Size-controlled glass frits with spherical shape for Al electrodes in Si solar cells. <i>Journal of the Ceramic Society of Japan</i> , 2011, 119, 954-960.	0.5	1

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19	Characteristics of nanosized Bi-based glass powders prepared by flame spray pyrolysis as transparent dielectric layer material. <i>Ceramics International</i> , 2011, 37, 687-690.	2.3	2
20	Graphene-Based Multifunctional Iron Oxide Nanosheets with Tunable Properties. <i>Chemistry - A European Journal</i> , 2011, 17, 1214-1219.	1.7	78
21	Characteristics of Ag-Pd-glass composite and Ag-Pd alloy powders prepared by spray pyrolysis. <i>Powder Technology</i> , 2011, 207, 318-323.	2.1	0
22	Characteristics of Pb-based glass powders prepared by spray pyrolysis as inorganic additive of Al paste for solar cell. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 34-38.	3.0	4
23	Preparation of silver-glass composite powder and conducting film. <i>Journal of the Ceramic Society of Japan</i> , 2010, 118, 353-356.	0.5	2
24	Effect of preparation conditions on the properties of silver-glass composite powders prepared by spray pyrolysis. <i>Journal of the Ceramic Society of Japan</i> , 2010, 118, 25-29.	0.5	2
25	Properties of nano-sized glass powders prepared by flame spray pyrolysis as an inorganic binder in ink-jet printing. <i>Journal of the Ceramic Society of Japan</i> , 2010, 118, 613-616.	0.5	2
26	BaMgAl ₁₀ O ₁₇ : Eu ²⁺ phosphor powders prepared from precursor powders with a hollow and thin wall structure containing NH ₄ F flux. <i>Electronic Materials Letters</i> , 2010, 6, 81-86.	1.0	6
27	Eu-doped B ₂ O ₃ -ZnO-PbO glass phosphor powders with spherical shape and fine size prepared by spray pyrolysis. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 98, 671-677.	1.1	2
28	Characteristics of BaNd ₂ Ti ₅ O ₁₄ powders directly prepared by high-temperature spray pyrolysis. <i>Ceramics International</i> , 2010, 36, 63-68.	2.3	2
29	Effect of precursor types on the characteristics of the Pb-based glass powders prepared by spray pyrolysis. <i>Ceramics International</i> , 2010, 36, 395-399.	2.3	1
30	Firing characteristics of size-controlled silver-glass composite powders prepared by spray pyrolysis. <i>Powder Technology</i> , 2010, 198, 347-353.	2.1	5
31	Characteristics of Y ₃ Al ₅ O ₁₂ :Ce phosphor powders prepared by spray pyrolysis from ethylenediaminetetraacetic acid solution. <i>Ceramics International</i> , 2010, 36, 611-615.	2.3	41
32	Size-controlled Bi-based glass powders prepared by spray pyrolysis as inorganic additives for silver electrode. <i>Ceramics International</i> , 2010, 36, 1171-1176.	2.3	4
33	Characteristics of Bi-based glass powders with various glass transition temperatures prepared by spray pyrolysis. <i>Ceramics International</i> , 2010, 36, 1749-1753.	2.3	3
34	Characteristics of Ag powders coated with Pb-based glass material prepared by spray pyrolysis under various gas environments. <i>Ceramics International</i> , 2010, 36, 2477-2483.	2.3	3
35	Nano-sized silver powders coated with Pb-based glass material with high glass transition temperature. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 361, 45-50.	2.3	5
36	Characteristics of nano-sized silver-glass composite powders prepared by flame spray pyrolysis. <i>Journal of Alloys and Compounds</i> , 2010, 489, 456-460.	2.8	7

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37	Fine size Pb-based glass frit with spherical shape as the inorganic binder of Al electrode for Si solar cells. Journal of Alloys and Compounds, 2010, 490, 488-492.	2.8	21
38	Characteristics of Pb-based glass frit prepared by spray pyrolysis as the inorganic binder of silver electrode for Si solar cells. Journal of Alloys and Compounds, 2010, 490, 582-588.	2.8	16
39	Characteristics of silver-glass composite powders as the silver electrode for Si solar cells. Journal of Alloys and Compounds, 2010, 491, 584-588.	2.8	14
40	Effect of gas environment on the properties of silver-glass composite powders with core-shell structure prepared by spray pyrolysis. Journal of Alloys and Compounds, 2010, 492, 723-730.	2.8	2
41	Effect of preparation conditions and types of spray solutions on the formation of nano-sized silver-glass composite powders in flame spray pyrolysis. Journal of Alloys and Compounds, 2010, 496, 536-542.	2.8	1
42	Characteristics of Bi-based glass frit having similar mean size and morphology to those of silver powders at high firing temperatures. Journal of Alloys and Compounds, 2010, 497, 259-266.	2.8	28
43	Characteristics of the glass powders with low Pb content directly prepared by spray pyrolysis. Journal of Alloys and Compounds, 2010, 502, 158-162.	2.8	2
44	Fine size (Y,Gd)BO ₃ :Eu phosphor powders prepared from precursor powders with hollow shape and large size. Journal of Alloys and Compounds, 2010, 503, 260-265.	2.8	6
45	The Role of Carbon Black in the Preparation of GdPO ₄ :Tb Phosphor Powders by Spray Pyrolysis. Japanese Journal of Applied Physics, 2009, 48, 116503.	0.8	2
46	The effects of glass powders prepared by spray pyrolysis on the structures and conductivities of silver electrode. Materials Chemistry and Physics, 2009, 118, 25-31.	2.0	6
47	Fine-sized BaMgAl ₁₀ O ₁₇ :Eu ²⁺ phosphor powders prepared by spray pyrolysis from the spray solution with BaF ₂ flux. Ceramics International, 2009, 35, 2651-2657.	2.3	10
48	Fine-sized Y ₃ Al ₅ O ₁₂ :Ce phosphor powders prepared by spray pyrolysis from the spray solution with barium fluoride flux. Journal of Alloys and Compounds, 2009, 477, 776-779.	2.8	63
49	Firing characteristics of La _{0.8} Sr _{0.2} Ga _{0.8} Mg _{0.2} O ₃ electrolyte powders prepared by spray pyrolysis. Journal of Alloys and Compounds, 2009, 487, 693-697.	2.8	11
50	Characteristics of carbon-glass composite powders with spherical shape and submicron size prepared by spray pyrolysis from colloidal spray solution. Journal of the Ceramic Society of Japan, 2009, 117, 1277-1280.	0.5	0
51	Firing characteristics of nano-sized glass powders prepared by flame spray pyrolysis for electrode application. Journal of the Ceramic Society of Japan, 2009, 117, 1311-1316.	0.5	7
52	Direct Growth of Optically Stable Gold Nanorods onto Polyelectrolyte Multilayered Capsules. Small, 2008, 4, 742-745.	5.2	18
53	Polyelectrolyte Multilayer-Mediated Growth of Gold Nanoparticle Films with Tunable Loading Density and Nanoparticle Shape. Macromolecular Rapid Communications, 2008, 29, 520-524.	2.0	13
54	Eu-doped Ca ₈ Mg(SiO ₄) ₄ Cl ₂ phosphor particles prepared by spray pyrolysis from the colloidal spray solution containing ammonium chloride. Journal of Alloys and Compounds, 2008, 457, 429-434.	2.8	24

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55	Ca _{7.97-x} Mg _x (SiO ₄) ₄ Cl ₂ :Eu _{0.03} ,D _x (D=Y, Gd, Mn) Phosphor Particles Prepared by Spray Pyrolysis. Japanese Journal of Applied Physics, 2008, 47, 163-166.	0.8	6
56	Effects of N,N-Dimethylacetamide as Drying Control Chemical Additive on Characteristics of Zn ₂ SiO ₄ :Mn,Ba Phosphor Powders Prepared by Spray Pyrolysis. Japanese Journal of Applied Physics, 2008, 47, 7407-7411.	0.8	4
57	Effects of amide types DCCAs on the properties of Y ₂ O ₃ :Eu phosphor powders with spherical shape and fine size. Journal of the Ceramic Society of Japan, 2008, 116, 955-959.	0.5	1
58	Blue-Emitting Eu-Doped (Sr, Mg) ₅ (PO ₄) ₃ Cl Phosphor Particles Prepared by Spray Pyrolysis from the Spray Solution Containing Ammonium Chloride. Journal of the Ceramic Society of Japan, 2007, 115, 955-959.	0.5	0
59	Effect of preparation temperature on the characteristics of PbO-B ₂ O ₃ -SiO ₂ glass powders with spherical shape. Journal of Alloys and Compounds, 2007, 428, 344-349.	2.8	20
60	Preparation of Bi ₂ O ₃ -B ₂ O ₃ -ZnO-BaO-SiO ₂ glass powders with spherical shape by spray pyrolysis. Journal of Alloys and Compounds, 2007, 437, 215-219.	2.8	32
61	Effects of Y/Gd Ratio and Boron Excess on Vacuum Ultraviolet Characteristics and Morphology of (Y,Gd)BO ₃ :Eu Phosphor Particles Prepared by Spray Pyrolysis. Japanese Journal of Applied Physics, 2007, 46, 3424-3427.	0.8	3
62	Synthesis of raspberry-like particles using polyelectrolyte multilayer-coated particles. Journal of Materials Chemistry, 2007, 17, 4943.	6.7	29
63	The characteristics of the size-controlled Pb-based glass powders with spherical shape. Materials Letters, 2007, 61, 3669-3672.	1.3	7
64	Emulsion-Based Synthesis of Reversibly Swellable, Magnetic Nanoparticle-Embedded Polymer Microcapsules. Chemistry of Materials, 2006, 18, 3308-3313.	3.2	94
65	Synthesis of nanosized Co ₃ O ₄ particles by spray pyrolysis. Journal of Alloys and Compounds, 2006, 417, 254-258.	2.8	47
66	Luminescence Characteristics of Eu-Doped Calcium Magnesium Chlorosilicate Phosphor Particles Prepared by Spray Pyrolysis. Japanese Journal of Applied Physics, 2006, 45, 1617-1622.	0.8	12
67	Direct Synthesis of High-Brightness (CeTb)MgAl ₁₁ O ₁₉ Phosphor Particles by Spray Pyrolysis with Boric Acid Flux. Japanese Journal of Applied Physics, 2006, 45, 116-120.	0.8	5
68	Effect of Boric Acid Flux and Drying Control Chemical Additive on the Characteristics of Y ₂ O ₃ :Eu Phosphor Particles Prepared by Spray Pyrolysis. Japanese Journal of Applied Physics, 2006, 45, 9083-9087.	0.8	9
69	RAFT Polymerization inside a Polyelectrolyte Hollow Capsule Microreactor. Angewandte Chemie - International Edition, 2005, 44, 1096-1101.	7.2	52
70	RAFT Polymerization inside a Polyelectrolyte Hollow Capsule Microreactor. Angewandte Chemie, 2005, 117, 1120-1125.	1.6	4