# Yoshio Sakka

List of Publications by Year
in descending order



| 617 | 19,221 | 17405 63 | 27345 106 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 628 | 628 | 628 | 16316 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Novel Electronic and Magnetic Properties of Twoâ€Dimensional Transition Metal Carbides and Nitrides. Advanced Functional Materials, 2013, 23, 2185-2192. | 7.8 | 1,418 |
| 2 | Direct Synthesis of MOFâ€Derived Nanoporous Carbon with Magnetic Co Nanoparticles toward Efficient Water Treatment. Small, 2014, 10, 2096-2107. | 5.2 | 588 |
| 3 | Electric Doubleâ€Layer Capacitors Based on Highly Graphitized Nanoporous Carbons Derived from ZIFâ€67. Chemistry - A European Journal, 2014, 20, 7895-7900. | 1.7 | 423 |
| 4 | Two-dimensional molybdenum carbides: potential thermoelectric materials of the MXene family. Physical Chemistry Chemical Physics, 2014, 16, 7841-7849. | 1.3 | 395 |
| 5 | Electric current activated/assisted sintering (ECAS): a review of patents 1906â€“2008. Science and Technology of Advanced Materials, 2009, 10, 053001. | 2.8 | 357 |
| 6 | A high-strain-rate superplastic ceramic. Nature, 2001, 413, 288-291. | 13.7 | 245 |
| 7 | Dielectrophoretically Aligned Carbon Nanotubes to Control Electrical and Mechanical Properties of Hydrogels to Fabricate Contractile Muscle Myofibers. Advanced Materials, 2013, 25, 4028-4034. | 11.1 | 236 |
| 8 | Textured Development of Feeble Magnetic Ceramics by Colloidal Processing Under High Magnetic Field. Journal of the Ceramic Society of Japan, 2005, 113, 26-36. | 1.3 | 223 |
| 9 | Hybrid hydrogels containing vertically aligned carbon nanotubes with anisotropic electrical conductivity for muscle myofiber fabrication. Scientific Reports, 2014, 4, 4271. | 1.6 | 213 |
| 10 | MOF-derived Nanoporous Carbon as Intracellular Drug Delivery Carriers. Chemistry Letters, 2014, 43, 717-719. | 0.7 | 165 |
| 11 | Densification behaviour and microstructural development in undoped yttria prepared by flash-sintering. Journal of the European Ceramic Society, 2014, 34, 991-1000. | 2.8 | 159 |
| 12 | Synthesis and Colloidal Processing of Zirconia Nanopowder. Journal of the American Ceramic Society, 2001, 84, 2489-2494. | 1.9 | 156 |
| 13 | Textured silicon nitride: processing and anisotropic properties. Science and Technology of Advanced Materials, 2008, 9, 033001. | 2.8 | 142 |
| 14 | Preparation of porous materials with controlled pore size and porosity. Journal of the European Ceramic Society, 2004, 24, 341-344. | 2.8 | 137 |
| 15 | Hydrogenâ€Generation Materials for Portable Applications. Journal of the American Ceramic Society, 2008, 91, 3825-3834. | 1.9 | 132 |
| 16 | Effect of different modification agents on hydrogen-generation by the reaction of Al with water. International Journal of Hydrogen Energy, 2010, 35, 9561-9568. | 3.8 | 128 |
| 17 | Effect of polyethylenimine on the dispersion and electrophoretic deposition of nano-sized titania aqueous suspensions. Journal of the European Ceramic Society, 2006, 26, 1555-1560. | 2.8 | 124 |
| 18 | Lowâ€Temperature Processing and Mechanical Properties of Zirconia and Zirconiaâ€“Alumina Nanoceramics. Journal of the American Ceramic Society, 2003, 86, 299-304. | 1.9 | 116 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Trends in electronic structures and structural properties of MAX phases: a first-principles study on M<sub>2</sub>AlC (M = Sc, Ti, Cr, Zr, Nb, Mo, Hf, or Ta), M<sub>2</sub>AlN, and hypothetical M<sub>2</sub>AlB phases. Journal of Physics Condensed Matter, 2014, 26, 505503. | 0.7 | 116 |
| 20 | Layered Rare-Earth Hydroxides (LRHs) of (Y<sub>1â^'x</sub>Eu<sub>x</sub>)<sub>2</sub>(OH)<sub>5</sub>NO<sub>3</sub>Â·nH<sub>2</sub>O (x = 0â^'1): Structural Variations by Eu<sup>3+</sup> Doping, Phase Conversion to Oxides, and the Correlation of Photoluminescence Behaviors. Chemistry of Materials, 2010, 22, 4204-4213. | 3.2 | 114 |
| 21 | Facile and green production of aqueous graphene dispersions for biomedical applications. Nanoscale, 2015, 7, 6436-6443. | 2.8 | 114 |
| 22 | High-temperature bending strength, internal friction and stiffness of ZrB2â€“20vol% SiC ceramics. Journal of the European Ceramic Society, 2012, 32, 2519-2527. | 2.8 | 112 |
| 23 | Control of Crystal Orientation of Hydroxyapatite by Imposition of a High Magnetic Field. Materials Transactions, 2003, 44, 1133-1137. | 0.4 | 111 |
| 24 | Modeling of the temperature distribution of flash sintered zirconia. Journal of the Ceramic Society of Japan, 2011, 119, 144-146. | 0.5 | 111 |
| 25 | Control of texture in alumina by colloidal processing in a strong magnetic field. Science and Technology of Advanced Materials, 2006, 7, 356-364. | 2.8 | 106 |
| 26 | Flexible Polymer Colloidalâ€Crystal Lasers with a Lightâ€Emitting Planar Defect. Advanced Materials, 2007, 19, 2067-2072. | 11.1 | 106 |
| 27 | Orientation of mesochannels in continuous mesoporous silica films by a high magnetic field. Journal of Materials Chemistry, 2005, 15, 1137. | 6.7 | 99 |
| 28 | Dense, bubble-free ceramic deposits from aqueous suspensions by electrophoretic deposition. Journal of Materials Research, 2001, 16, 321-324. | 1.2 | 91 |
| 29 | Recent progress in advanced optical materials based on gadolinium aluminate garnet (Gd<sub>3</sub>Al<sub>5</sub>O<sub>12</sub>). Science and Technology of Advanced Materials, 2015, 16, 014902. | 2.8 | 90 |
| 30 | Fabrication of Macroporous Alumina with Tailored Porosity. Journal of the American Ceramic Society, 2003, 86, 2050-2054. | 1.9 | 89 |
| 31 | Surface modification of multiwall carbon nanotubes by sulfonitric treatment. Applied Surface Science, 2016, 379, 264-269. | 3.1 | 89 |
| 32 | Inherent anisotropy in transition metal diborides and microstructure/property tailoring in ultra-high temperature ceramicsâ€”A review. Journal of the European Ceramic Society, 2018, 38, 371-389. | 2.8 | 89 |
| 33 | Spectroscopic study of the discoloration of transparent MgAl2O4 spinel fabricated by spark-plasma-sintering (SPS) processing. Acta Materialia, 2015, 84, 9-19. | 3.8 | 88 |
| 34 | Greatly enhanced Dy3+ emission via efficient energy transfer in gadolinium aluminate garnet (Gd3Al5O12) stabilized with Lu3+. Journal of Materials Chemistry C, 2013, 1, 7614. | 2.7 | 86 |
| 35 | Highly Transparent Pure Alumina Fabricated by Highâ€Pressure Spark Plasma Sintering. Journal of the American Ceramic Society, 2010, 93, 2460-2462. | 1.9 | 85 |
| 36 | Highly textured ZrB2-based ultrahigh temperature ceramics via strong magnetic field alignment. Scripta Materialia, 2009, 60, 615-618. | 2.6 | 84 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Peculiarities of the neck growth process during initial stage of spark-plasma, microwave and conventional sintering of WC spheres. Journal of Alloys and Compounds, 2012, 523, 1-10. | 2.8 | 82 |
| 38 | Sizeâ€Tunable UVâ€Luminescent Silicon Nanocrystals. Small, 2010, 6, 915-921. | 5.2 | 81 |
| 39 | Highly transparent Î±-alumina obtained by low cost high pressure SPS. Ceramics International, 2013, 39, 3243-3248. | 2.3 | 81 |
| 40 | Fabrication of Textured Nb<sub>4</sub>AlC<sub>3</sub> Ceramic by Slip Casting in a Strong Magnetic Field and Spark Plasma Sintering. Journal of the American Ceramic Society, 2011, 94, 410-415. | 1.9 | 80 |
| 41 | Modification of Al Particle Surfaces by gamma-Al2O3 and Its Effect on the Corrosion Behavior of Al. Journal of the American Ceramic Society, 2005, 88, 977-979. | 1.9 | 78 |
| 42 | The effect of the interlayer element on the exfoliation of layered Mo<sub>2</sub>AC (A = Al, Si, P, Ga,) Tj ETQq0 0 0 rgBT /Overlock 10 T of Advanced Materials, 2014, 15, 014208. | 2.8 | 78 |
| 43 | Shell-like nanolayered Nb4AlC3 ceramic with high strength and toughness. Scripta Materialia, 2011, 64, 765-768. | 2.6 | 77 |
| 44 | Chiroptical Properties Induced in Chiral Photonic-Bandgap Liquid Crystals Leading to a Highly Efficient Laser-Feedback Effect. Advanced Materials, 2006, 18, 775-780. | 11.1 | 76 |
| 45 | Fabrication of Textured Titania by Slip Casting in a High Magnetic Field Followed by Heating. Japanese Journal of Applied Physics, 2002, 41, L1272-L1274. | 0.8 | 75 |
| 46 | Electrophoretic Deposition Behavior of Aqueous Nanosized Zinc Oxide Suspensions. Journal of the American Ceramic Society, 2002, 85, 2161-2165. | 1.9 | 74 |
| 47 | Relation between microstructure, properties and spark plasma sintering (SPS) parameters of pure ultrafine WC powder. Science and Technology of Advanced Materials, 2007, 8, 644-654. | 2.8 | 73 |
| 48 | Recent advances in understanding the reinforcing ability and mechanism of carbon nanotubes in ceramic matrix composites. Science and Technology of Advanced Materials, 2014, 15, 064902. | 2.8 | 73 |
| 49 | Nanometer-thin layered hydroxide platelets of (Y0.95Eu0.05)2(OH)5NO3Â·xH2O: exfoliation-free synthesis, self-assembly, and the derivation of dense oriented oxide films of high transparency and greatly enhanced luminescence. Journal of Materials Chemistry, 2011, 21, 6903. | 6.7 | 72 |
| 50 | Laser-derived one-pot synthesis of silicon nanocrystals terminated with organic monolayers. Chemical Communications, 2009, , 4684. | 2.2 | 71 |
| 51 | Thermophysical properties of porous SiC ceramics fabricated by pressureless sintering. Science and Technology of Advanced Materials, 2007, 8, 655-659. | 2.8 | 70 |
| 52 | Application of constant current pulse to suppress bubble incorporation and control deposit morphology during aqueous electrophoretic deposition (EPD). Journal of the European Ceramic Society, 2009, 29, 1837-1845. | 2.8 | 70 |
| 53 | Experimental verification of pH localization mechanism of particle consolidation at the electrode/solution interface and its application to pulsed DC electrophoretic deposition (EPD). Journal of the European Ceramic Society, 2010, 30, 1187-1193. | 2.8 | 70 |
| 54 | Colloidal processing of Gd2O3:Eu3+ red phosphor monospheres of tunable sizes: Solvent effects on precipitation kinetics and photoluminescence properties of the oxides. Acta Materialia, 2011, 59, 3688-3696. | 3.8 | 69 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Bubbleâ€Free Aqueous Electrophoretic Deposition (EPD) by Pulseâ€Potential Application. Journal of the American Ceramic Society, 2008, 91, 3154-3159. | 1.9 | 68 |
| 56 | Single-phased luminescent mesoporous nanoparticles for simultaneous cell imaging and anticancer drug delivery. Biomaterials, 2011, 32, 7226-7233. | 5.7 | 68 |
| 57 | Effect of Ultrasonication on the Microstructure and Tensile Elongation of Zirconiaâ€Dispersed Alumina Ceramics Prepared by Colloidal Processing. Journal of the American Ceramic Society, 2001, 84, 2132-2134. | 1.9 | 67 |
| 58 | Fabrication of Transparent Yttria by Highâ€Pressure Spark Plasma Sintering. Journal of the American Ceramic Society, 2011, 94, 3206-3210. | 1.9 | 66 |
| 59 | Size-Dependent Color Tuning of Efficiently Luminescent Germanium Nanoparticles. Langmuir, 2013, 29, 7401-7410. | 1.6 | 66 |
| 60 | Control of Texture in ZnO by Slip Casting in a Strong Magnetic Field and Heating. Chemistry Letters, 2002, 31, 1204-1205. | 0.7 | 65 |
| 61 | Preparation of oriented bulk 5wt% Y2O3â€“AlN ceramics by slip casting in a high magnetic field and sintering. Scripta Materialia, 2005, 52, 583-586. | 2.6 | 65 |
| 62 | Effects of Pressure Application Method on Transparency of Spark Plasma Sintered Alumina. Journal of the American Ceramic Society, 2011, 94, 1405-1409. | 1.9 | 65 |
| 63 | Cation Interdiffusion and Phase Stability in Polycrystalline Tetragonal Ceria-Zirconia-Hafnia Solid Solution. Journal of the American Ceramic Society, 1991, 74, 2610-2614. | 1.9 | 64 |
| 64 | Role of the Initial Degree of Ionization of Polyethylenimine in the Dispersion of Silicon Carbide Nanoparticles. Journal of the American Ceramic Society, 2003, 86, 189-191. | 1.9 | 64 |
| 65 | Synchrotron X-ray, Photoluminescence, and Quantum Chemistry Studies of Bismuth-Embedded Dehydrated Zeolite Y. Journal of the American Chemical Society, 2012, 134, 2918-2921. | 6.6 | 64 |
| 66 | Reduction in sintering temperature for flash-sintering of yttria by nickel cation-doping. Acta Materialia, 2016, 106, 344-352. | 3.8 | 64 |
| 67 | Ultrabroad near-infrared photoluminescence from Bi5(AlCl4)3 crystal. Journal of Materials Chemistry, 2011, 21, 4060. | 6.7 | 63 |
| 68 | Hybrid White Light Emitting Diode Based on Silicon Nanocrystals. Advanced Functional Materials, 2014, 24, 7151-7160. | 7.8 | 63 |
| 69 | Luminescent metal nanoclusters: controlled synthesis and functional applications. Science and Technology of Advanced Materials, 2014, 15, 014205. | 2.8 | 63 |
| 70 | Processing of Silicon Carbide-Mullite-Alumina Nanocomposites. Journal of the American Ceramic Society, 1995, 78, 479-486. | 1.9 | 62 |
| 71 | Distribution of carbon contamination in oxide ceramics occurring during spark-plasma-sintering (SPS) processing: II - Effect of SPS and loading temperatures. Journal of the European Ceramic Society, 2018, 38, 2596-2604. | 2.8 | 62 |
| 72 | Magnetically induced orientation of mesochannels in 2D-hexagonal mesoporous silica films. Journal of Materials Chemistry, 2006, 16, 3693. | 6.7 | 61 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Microstructure and high-temperature strength of B4Câ€“TiB2 composite prepared by a crucibleless zone melting method. Journal of Alloys and Compounds, 2009, 485, 677-681. | 2.8 | 61 |
| 74 | Highly Fluorescent Silicaâ€Coated Bismuthâ€Doped Aluminosilicate Nanoparticles for Nearâ€Infrared Bioimaging. Small, 2011, 7, 199-203. | 5.2 | 61 |
| 75 | Reduced thermal degradation of the red-emitting Sr<sub>2</sub>Si<sub>5</sub>N<sub>8</sub>:Eu<sup>2+</sup> phosphor via thermal treatment in nitrogen. Journal of Materials Chemistry C, 2015, 3, 7642-7651. | 2.7 | 60 |
| 76 | A grain-boundary diffusion model of dynamic grain growth during superplastic deformation. Acta Materialia, 1999, 47, 3433-3439. | 3.8 | 59 |
| 77 | Transparent nanocrystalline bulk alumina obtained at 7.7GPa and 800Â°C. Scripta Materialia, 2013, 69, 362-365. | 2.6 | 59 |
| 78 | Reactive spark plasma sintering of ZrC and HfC ceramics with fine microstructures. Scripta Materialia, 2013, 69, 139-142. | 2.6 | 59 |
| 79 | Alignment of Titania Whisker by Colloidal Filtration in a High Magnetic Field. Japanese Journal of Applied Physics, 2002, 41, L1416-L1418. | 0.8 | 58 |
| 80 | The effects of Gd3+ substitution on the crystal structure, site symmetry, and photoluminescence of Y/Eu layered rare-earth hydroxide (LRH) nanoplates. Dalton Transactions, 2012, 41, 1854-1861. | 1.6 | 58 |
| 81 | In Situ TEM Observation of a Microcrucible Mechanism of Nanowire Growth. Science, 2014, 344, 623-626. | 6.0 | 58 |
| 82 | A mesoporous non-precious metal boride system: synthesis of mesoporous cobalt boride by strictly controlled chemical reduction. Chemical Science, 2020, 11, 791-796. | 3.7 | 58 |
| 83 | Tailoring Ti<sub>3</sub>SiC<sub>2</sub> Ceramic via a Strong Magnetic Field Alignment Method Followed by Spark Plasma Sintering. Journal of the American Ceramic Society, 2011, 94, 742-748. | 1.9 | 57 |
| 84 | Effect of sintering temperature on optical properties and microstructure of translucent zirconia prepared by high-pressure spark plasma sintering. Science and Technology of Advanced Materials, 2011, 12, 055003. | 2.8 | 57 |
| 85 | Magnetically Induced Orientation of Mesochannels in Mesoporous Silica Films at 30â€…Tesla. Chemistry - an Asian Journal, 2007, 2, 1505-1512. | 1.7 | 56 |
| 86 | Photoluminescence, cytotoxicity and in vitro imaging of hexagonal terbium phosphatenanoparticles doped with europium. Nanoscale, 2011, 3, 1263-1269. | 2.8 | 56 |
| 87 | Highly Concentrated 3D Macrostructure of Individual Carbon Nanotubes in a Ceramic Environment. Advanced Materials, 2012, 24, 4322-4326. | 11.1 | 56 |
| 88 | Electrophoretic deposition of aqueous nano-Î³-Al2O3 suspensions. Materials Research Bulletin, 2002, 37, 653-660. | 2.7 | 55 |
| 89 | Electrophoretic deposition of alumina suspension in a strong magnetic field. Journal of the European Ceramic Society, 2004, 24, 225-229. | 2.8 | 55 |
| 90 | Fabrication and some properties of textured alumina-related compounds by colloidal processing in high-magnetic field and sintering. Journal of the European Ceramic Society, 2008, 28, 935-942. | 2.8 | 55 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Dense zircon (ZrSiO4) ceramics by high energy ball milling and spark plasma sintering. Ceramics International, 2012, 38, 1793-1799. | 2.3 | 55 |
| 92 | Fluorescent sensing of colloidal CePO<sub>4</sub>:Tb nanorods for rapid, ultrasensitive and selective detection of vitamin C. Nanotechnology, 2010, 21, 365501. | 1.3 | 53 |
| 93 | The development of Ce<sup>3+</sup>-activated (Gd,Lu)<sub>3</sub>Al<sub>5</sub>O<sub>12</sub>garnet solid solutions as efficient yellow-emitting phosphors. Science and Technology of Advanced Materials, 2013, 14, 054201. | 2.8 | 53 |
| 94 | A strategy for fabricating textured silicon nitride with enhanced thermal conductivity. Journal of the European Ceramic Society, 2014, 34, 2585-2589. | 2.8 | 53 |
| 95 | Influence of microstructure on the thermophysical properties of sintered SiC ceramics. Journal of Alloys and Compounds, 2008, 463, 493-497. | 2.8 | 52 |
| 96 | High-temperature reactive spark plasma consolidation of TiB2â€“NbC ceramic composites. Ceramics International, 2015, 41, 10828-10834. | 2.3 | 52 |
| 97 | Ultrabroad near-infrared photoluminescence from ionic liquids containing subvalent bismuth. Optics Letters, 2011, 36, 100. | 1.7 | 51 |
| 98 | Doped-carbon electrocatalysts with trimodal porosity from a homogeneous polypeptide gel. Journal of Materials Chemistry A, 2013, 1, 13576. | 5.2 | 51 |
| 99 | Ultra-high elevated temperature strength of TiB2-based ceramics consolidated by spark plasma sintering. Journal of the European Ceramic Society, 2017, 37, 393-397. | 2.8 | 51 |
| 100 | Superconducting and Transport Properties of B-Y-Cu-O Compounds -Orthorhombic and Tetragonal Phases. Japanese Journal of Applied Physics, 1987, 26, L721-L723. | 0.8 | 50 |
| 101 | Physical and mechanical properties of highly textured polycrystalline Nb<sub>4</sub>AlC<sub>3</sub>ceramic. Science and Technology of Advanced Materials, 2011, 12, 044603. | 2.8 | 50 |
| 102 | Strong <scp><scp>ZrB</scp></scp><sub>2</sub>â€“<scp><scp>SiC</scp></scp>â€“<scp><scp>WC</scp></scp> Ceramics at 1600Â°C. Journal of the American Ceramic Society, 2012, 95, 874-878. | 1.9 | 50 |
| 103 | Layered rare-earth hydroxide and oxide nanoplates of the Y/Tb/Eu system: phase-controlled processing, structure characterization and color-tunable photoluminescence via selective excitation and efficient energy transfer. Science and Technology of Advanced Materials, 2013, 14, 015006. | 2.8 | 50 |
| 104 | One-step freezing temperature crystallization of layered rare-earth hydroxide (Ln<sub>2</sub>(OH)<sub>5</sub>NO<sub>3</sub>Â·nH<sub>2</sub>O) nanosheets for a wide spectrum of Ln (Ln = Prâ€“Er, and Y), anion exchange with fluorine and sulfate, and microscopic coordination probed via photoluminescence. Journal of Materials Chemistry C, 2015, 3, 3428-3437. | 2.7 | 50 |
| 105 | Auto-programmed synthesis of metallic aerogels: Core-shell Cu@Fe@Ni aerogels for efficient oxygen evolution reaction. Nano Energy, 2021, 81, 105644. | 8.2 | 50 |
| 106 | Fabrication of porous ceramics with controlled pore size by colloidal processing. Science and Technology of Advanced Materials, 2005, 6, 915-920. | 2.8 | 49 |
| 107 | Control of crystalline texture in polycrystalline TiO2 (Anatase) by electrophoretic deposition in a strong magnetic field. Journal of the European Ceramic Society, 2006, 26, 559-563. | 2.8 | 49 |
| 108 | Experimental and theoretical studies of photoluminescence from Bi82+ and Bi53+ stabilized by [AlCl4]â˜’ in molecular crystals. Journal of Materials Chemistry, 2012, 22, 12837. | 6.7 | 49 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Influence of pre- and post-annealing on discoloration of MgAl2O4 spinel fabricated by spark-plasma-sintering (SPS). Journal of the European Ceramic Society, 2016, 36, 2961-2968. | 2.8 | 49 |
| 110 | Superplasticity in alumina enhanced by co-dispersion of 10% zirconia and 10% spinel particles. Acta Materialia, 2001, 49, 887-895. | 3.8 | 48 |
| 111 | High-pressure spark plasma sintering of MgO-doped transparent alumina. Journal of the Ceramic Society of Japan, 2012, 120, 116-118. | 0.5 | 48 |
| 112 | High-strength TiB 2 â€“TaC ceramic composites prepared using reactive spark plasma consolidation. Ceramics International, 2016, 42, 1298-1306. | 2.3 | 48 |
| 113 | Enhanced superplasticity in a alumina-containing zirconia prepared by colloidal processing. Scripta Materialia, 2000, 43, 705-710. | 2.6 | 47 |
| 114 | Nonisothermal Synthesis of Yttriaâ€Stabilized Zirconia Nanopowder through Oxalate Processing: I, Characteristics of Yâ€Zr Oxalate Synthesis and Its Decomposition. Journal of the American Ceramic Society, 2000, 83, 2196-2202. | 1.9 | 47 |
| 115 | High-hardness B4C textured by a strong magnetic field technique. Scripta Materialia, 2011, 64, 256-259. | 2.6 | 47 |
| 116 | Reaction temperature variations on the crystallographic state of spinel cobalt aluminate. Dalton Transactions, 2013, 42, 7167. | 1.6 | 47 |
| 117 | Electrophoretic deposition of aqueous nano-sized zinc oxide suspensions on a zinc electrode. Materials Research Bulletin, 2003, 38, 207-212. | 2.7 | 46 |
| 118 | Effect of Polyethylenimine on Hydrolysis and Dispersion Properties of Aqueous Si3N4Suspensions. Journal of the American Ceramic Society, 2007, 90, 797-804. | 1.9 | 46 |
| 119 | Zirconâ€“zirconia (ZrSiO4â€“ZrO2) dense ceramic composites by spark plasma sintering. Journal of the European Ceramic Society, 2012, 32, 787-793. | 2.8 | 46 |
| 120 | One-pot synthesis of monoclinic ZrO2 nanocrystals under subcritical hydrothermal conditions. Journal of Supercritical Fluids, 2014, 85, 57-61. | 1.6 | 46 |
| 121 | Flash spark plasma sintering of ultrafine yttria-stabilized zirconia ceramics. Scripta Materialia, 2016, 121, 32-36. | 2.6 | 46 |
| 122 | Amorphous Alloy Architectures in Pore Walls: Mesoporous Amorphous NiCoB Alloy Spheres with Controlled Compositions via a Chemical Reduction. ACS Nano, 2020, 14, 17224-17232. | 7.3 | 46 |
| 123 | Tri-axial Grain Orientation of Y<sub>2</sub>Ba<sub>4</sub>Cu<sub>7</sub>O<sub>y</sub>Achieved by the Magneto-science Method. Applied Physics Express, 0, 1, 111701. | 1.1 | 46 |
| 124 | Dispersion Behavior of ZrB2Powder in Aqueous Solution. Journal of the American Ceramic Society, 2007, 90, 3455-3459. | 1.9 | 45 |
| 125 | Pressure Effects on Temperature Distribution during Spark Plasma Sintering with Graphite Sample. Materials Transactions, 2009, 50, 2111-2114. | 0.4 | 45 |
| 126 | Gelcasting of alumina with a new monomer synthesized from glucose. Journal of the European Ceramic Society, 2010, 30, 1795-1801. | 2.8 | 44 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | Effect of sintering conditions on microstructure orientation in Î±-SiC prepared by slip casting in a strong magnetic field. Journal of the European Ceramic Society, 2010, 30, 2813-2817. | 2.8 | 44 |
| 128 | Influence of Spark Plasma Sintering (<scp>SPS</scp>) Conditions on Transmission of MgAl<sub>2</sub>O<sub>4</sub> Spinel. Journal of the American Ceramic Society, 2015, 98, 378-385. | 1.9 | 44 |
| 129 | Microstructure and properties of ZrB2â€“SiC composites prepared by spark plasma sintering using TaSi2 as sintering additive. Journal of the European Ceramic Society, 2010, 30, 2625-2631. | 2.8 | 43 |
| 130 | Effective lattice stabilization of gadolinium aluminate garnet (GdAG) via Lu<sup>3+</sup>doping and development of highly efficient (Gd,Lu)AG:Eu<sup>3+</sup>red phosphors. Science and Technology of Advanced Materials, 2012, 13, 035007. | 2.8 | 43 |
| 131 | Microstructure and high-temperature strength of textured and non-textured ZrB<sub>2</sub>ceramics. Science and Technology of Advanced Materials, 2014, 15, 014202. | 2.8 | 43 |
| 132 | Distribution of carbon contamination in MgAl2O4 spinel occurring during spark-plasma-sintering (SPS) processing: I â€“ Effect of heating rate and post-annealing. Journal of the European Ceramic Society, 2018, 38, 2588-2595. | 2.8 | 43 |
| 133 | Processing and properties of sintered reaction-bonded silicon nitride with Y2O3â€“MgSiN2: Effects of Si powder and Li2O addition. Acta Materialia, 2007, 55, 5581-5591. | 3.8 | 42 |
| 134 | Tens of micron-sized unilamellar nanosheets of Y/Eu layered rare-earth hydroxide: efficient exfoliation via fast anion exchange and their self-assembly into oriented oxide film with enhanced photoluminescence. Science and Technology of Advanced Materials, 2014, 15, 014203. | 2.8 | 42 |
| 135 | High-strain-rate superplasticity in oxide ceramics. Science and Technology of Advanced Materials, 2007, 8, 578-587. | 2.8 | 41 |
| 136 | Interfacial-related color tuning of colloidal Si nanocrystals. Green Chemistry, 2010, 12, 2139. | 4.6 | 41 |
| 137 | Effect of Alumina Dopant on Transparency of Tetragonal Zirconia. Journal of Nanomaterials, 2012, 2012, 1-5. | 1.5 | 41 |
| 138 | Compressive deformation of CoZr and (Co,Ni)Zr intermetallic compounds with B2 structure. Journal of Materials Science, 1988, 23, 4041-4048. | 1.7 | 40 |
| 139 | Preferred Orientation of the Texture in the SiC Whisker-Dispersed Al2O3 Ceramics by Slip Casting in a High Magnetic Field.. Journal of the Ceramic Society of Japan, 2001, 109, 886-890. | 1.3 | 40 |
| 140 | Texture Development in Si3N4 Ceramics by Magnetic Field Alignment during Slip Casting. Journal of the Ceramic Society of Japan, 2006, 114, 979-987. | 1.3 | 40 |
| 141 | Hardness and Fracture Toughness of Alumina-Doped Tetragonal Zirconia with Different Yttria Contents. Materials Transactions, 2003, 44, 2235-2238. | 0.4 | 39 |
| 142 | Textured HfB2-based ultrahigh-temperature ceramics with anisotropic oxidation behavior. Scripta Materialia, 2009, 60, 913-916. | 2.6 | 39 |
| 143 | Low temperature thermal expansion, high temperature electrical conductivity, and mechanical properties of Nb4AlC3 ceramic synthesized by spark plasma sintering. Journal of Alloys and Compounds, 2009, 487, 675-681. | 2.8 | 39 |
| 144 | Well-defined crystallites autoclaved from the nitrate/NH4OH reaction system as the precursor for (Y,Eu)2O3 red phosphor: Crystallization mechanism, phase and morphology control, and luminescent property. Journal of Solid State Chemistry, 2012, 192, 229-237. | 1.4 | 39 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | Machinable ZrB2â€“SiCâ€“BN composites fabricated by reactive spark plasma sintering. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 582, 41-46. | 2.6 | 39 |
| 146 | Fabrication of high-strain rate superplastic yttria-doped zirconia polycrystals by adding manganese and aluminum oxides. Journal of the European Ceramic Society, 2004, 24, 449-453. | 2.8 | 38 |
| 147 | Lowâ€Temperature Spark Plasma Sintering of Pure Nano <scp>WC</scp> Powder. Journal of the American Ceramic Society, 2013, 96, 1702-1705. | 1.9 | 38 |
| 148 | Oxidation and Degradation of Titanium Nitride Ultrafine Powders Exposed to Air. Journal of the American Ceramic Society, 1992, 75, 244-248. | 1.9 | 37 |
| 149 | Electrophoretic deposition of lead zirconate titanate (PZT) powder from ethanol suspension prepared with phosphate ester. Science and Technology of Advanced Materials, 2005, 6, 927-932. | 2.8 | 37 |
| 150 | Effect of loading schedule on densification of MgAl2O4 spinel during spark plasma sintering (SPS) processing. Journal of the European Ceramic Society, 2012, 32, 2303-2309. | 2.8 | 37 |
| 151 | Unprecedented simultaneous enhancement in strain tolerance, toughness and strength of Al<sub>2</sub>O<sub>3</sub> ceramic by multiwall-type failure of a high loading of carbon nanotubes. Nanotechnology, 2013, 24, 155702. | 1.3 | 37 |
| 152 | Assessment of carbon contamination in MgAl<sub>2</sub>O<sub>4</sub> spinel during spark-plasma-sintering (SPS) processing. Journal of the Ceramic Society of Japan, 2015, 123, 983-988. | 0.5 | 37 |
| 153 | Densification, microstructure evolution and mechanical properties of WC doped HfB2â€“SiC ceramics. Journal of the European Ceramic Society, 2015, 35, 2707-2714. | 2.8 | 37 |
| 154 | Transparent ultrafine Yb<sup>3+</sup>:Y<sub>2</sub>O<sub>3</sub> laser ceramics fabricated by spark plasma sintering. Journal of the American Ceramic Society, 2018, 101, 694-702. | 1.9 | 37 |
| 155 | Highâ€Strainâ€Rate Superplasticity in Y<sub>2</sub>O<sub>3</sub>â€Stabilized Tetragonal ZrO<sub>2</sub> Dispersed with 30 vol% MgAl<sub>2</sub>O<sub>4</sub> Spinel. Journal of the American Ceramic Society, 2002, 85, 1900-1902. | 1.9 | 36 |
| 156 | Pressure Effect on the Homogeneity of Spark Plasmaâ€Sintered Tungsten Carbide Powder. Journal of the American Ceramic Society, 2009, 92, 2418-2421. | 1.9 | 36 |
| 157 | Hydrogen generation from water using Mg nanopowder produced by arc plasma method. Science and Technology of Advanced Materials, 2012, 13, 025009. | 2.8 | 36 |
| 158 | Structure characterization and photoluminescence properties of (Y0.95â^'xGdxEu0.05)2O3 red phosphors converted from layered rare-earth hydroxide (LRH) nanoflake precursors. Journal of Alloys and Compounds, 2013, 559, 188-195. | 2.8 | 36 |
| 159 | Dynamic grain growth during low-temperature spark plasma sintering of alumina. Scripta Materialia, 2014, 80, 29-32. | 2.6 | 36 |
| 160 | Prevention of thermal- and moisture-induced degradation of the photoluminescence properties of the Sr<sub>2</sub>Si<sub>5</sub>N<sub>8</sub>:Eu<sup>2+</sup> red phosphor by thermal post-treatment in N<sub>2</sub>â€“H<sub>2</sub>. Physical Chemistry Chemical Physics, 2016, 18, 12494-12504. | 1.3 | 36 |
| 161 | Magnetic orientation and magnetic anisotropy in paramagnetic layered oxides containing rare-earth ions. Science and Technology of Advanced Materials, 2009, 10, 014604. | 2.8 | 35 |
| 162 | NMR, ESR, and Luminescence Characterization of Bismuth Embedded Zeolites Y. Journal of Physical Chemistry C, 2013, 117, 6399-6408. | 1.5 | 35 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | Synthesis of B<sub>6</sub>O powder and spark plasma sintering of B<sub>6</sub>O and B<sub>6</sub>Oâ€“B<sub>4</sub>C ceramics. Journal of the Ceramic Society of Japan, 2013, 121, 950-955. | 0.5 | 35 |
| 164 | Hydroxide synthesis, colloidal processing and sintering of nano-size 3Y-TZP powder. Scripta Materialia, 2001, 44, 2219-2223. | 2.6 | 34 |
| 165 | Potential use of only Yb<sub>2</sub>O<sub>3</sub>in producing dense Si<sub>3</sub>N<sub>4</sub>ceramics with high thermal conductivity by gas pressure sintering. Science and Technology of Advanced Materials, 2010, 11, 065001. | 2.8 | 34 |
| 166 | Development of Eu3+ activated monoclinic, perovskite, and garnet compounds in the Gd2O3â€“Al2O3 phase diagram as efficient red-emitting phosphors. Journal of Solid State Chemistry, 2013, 206, 104-112. | 1.4 | 34 |
| 167 | Toughness control of boron carbide obtained by spark plasma sintering in nitrogen atmosphere. Ceramics International, 2014, 40, 3053-3061. | 2.3 | 34 |
| 168 | Effect of texture on oxidation resistance of Ti3AlC2. Journal of the European Ceramic Society, 2018, 38, 3417-3423. | 2.8 | 34 |
| 169 | Preparation Methods and Superplastic Properties of Fine-Grained Zirconia and Alumina Based Ceramics.. Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal, 1999, 1999, 497-508. | 0.1 | 33 |
| 170 | Circularly Polarized Laser Emission Induced by Supramolecular Chirality in Cholesteric Liquid Crystals. Journal of Nanoscience and Nanotechnology, 2006, 6, 1819-1822. | 0.9 | 33 |
| 171 | Effect of sintering additive on crystallographic orientation in AlN prepared by slip casting in a strong magnetic field. Journal of the European Ceramic Society, 2009, 29, 2627-2633. | 2.8 | 33 |
| 172 | Transparent magneto-optical Ho2O3 ceramics: Role of self-reactive resultant oxyfluoride additive and investigation of vacuum sintering kinetics. Ceramics International, 2019, 45, 14761-14767. | 2.3 | 33 |
| 173 | Fabrication of oriented ?-alumina from porous bodies by slip casting in a high magnetic field. Solid State Ionics, 2004, 172, 341-347. | 1.3 | 32 |
| 174 | Effect of pH localization on microstructure evolution of deposits during aqueous electrophoretic deposition (EPD). Journal of the European Ceramic Society, 2010, 30, 2467-2473. | 2.8 | 32 |
| 175 | Textured h-BN Ceramics Prepared by Slip Casting. Journal of the American Ceramic Society, 2011, 94, 1397-1404. | 1.9 | 32 |
| 176 | Ultra-broad near-infrared photoluminescence from crystalline (K-crypt)2Bi2 containing [Bi2]2â^' dimers. Journal of Materials Chemistry, 2012, 22, 20175. | 6.7 | 32 |
| 177 | Microstructure characterization of ZrB2â€“SiC composite fabricated by spark plasma sintering with TaSi2 additive. Journal of the European Ceramic Society, 2012, 32, 1441-1446. | 2.8 | 32 |
| 178 | Synthesis of Highâ€Purity Ti<sub>3</sub>SiC<sub>2</sub> by Microwave Sintering. International Journal of Applied Ceramic Technology, 2014, 11, 911-918. | 1.1 | 32 |
| 179 | Controlled Synthesis of Layered Rareâ€Earth Hydroxide Nanosheets Leading to Highly Transparent (Y<sub>0.95</sub>Eu<sub>0.05</sub>)<sub>2</sub>O<sub>3</sub> Ceramics. Journal of the American Ceramic Society, 2015, 98, 1413-1422. | 1.9 | 32 |
| 180 | Photocatalytic growth of Ag nanocrystals on hydrothermally synthesized multiphasic TiO2/reduced graphene oxide (rGO) nanocomposites and their SERS performance. Applied Surface Science, 2017, 423, 1-12. | 3.1 | 32 |

| # | Article | IF | Citations |
|---|---|---|---|
| 181 | Nonisothermal Synthesis of Yttriaâ€Stabilized Zirconia Nanopowder through Oxalate Processing: II, Morphology Manipulation. Journal of the American Ceramic Society, 2001, 84, 2484-2488. | 1.9 | 31 |
| 182 | Microstructure and properties of ZrB2-SiC and HfB2-SiC composites fabricated by spark plasma sintering (SPS) using TaSi2 as sintering aid. Journal of the Ceramic Society of Japan, 2010, 118, 997-1001. | 0.5 | 31 |
| 183 | Forming and Microstructure Control of Ceramics by Electrophoretic Deposition (EPD). KONA Powder and Particle Journal, 2010, 28, 74-90. | 0.9 | 31 |
| 184 | Effects of Gd Substitution on Sintering and Optical Properties of Highly Transparent (Y<sub>0.95â^'x</sub>Gd<sub>x</sub>Eu<sub>0.05</sub>)<sub>2</sub>O<sub>3</sub> Ceramics. Journal of the American Ceramic Society, 2015, 98, 2480-2487. | 1.9 | 31 |
| 185 | Hydrothermal crystallization of a Ln<sub>2</sub>(OH)<sub>4</sub>SO<sub>4</sub>Â·nH<sub>2</sub>O layered compound for a wide range of Ln (Ln = Laâ€“Dy), thermolysis, and facile transformation into oxysulfate and oxysulfide phosphors. RSC Advances, 2017, 7, 13331-13339. | 1.7 | 31 |
| 186 | Nanoexplosion Synthesis of Multimetal Oxide Ceramic Nanopowders. Nano Letters, 2005, 5, 2598-2604. | 4.5 | 30 |
| 187 | Mechanical properties of textured, multilayered alumina produced using electrophoretic deposition in a strong magnetic field. Journal of the European Ceramic Society, 2006, 26, 661-665. | 2.8 | 30 |
| 188 | Fabrication of multilayered oxide thermoelectric modules by electrophoretic deposition under high magnetic fields. Applied Physics Letters, 2006, 89, 081912. | 1.5 | 30 |
| 189 | Effect of starting powders on the sintering of nanostructured ZrO2ceramics by colloidal processing. Science and Technology of Advanced Materials, 2009, 10, 025004. | 2.8 | 30 |
| 190 | Synthesis of Plateâ€Like <scp><scp>ZrB<sub>2</sub></scp></scp> Grains. Journal of the American Ceramic Society, 2012, 95, 85-88. | 1.9 | 30 |
| 191 | Efficient green-luminescent germanium nanocrystals. Journal of Materials Chemistry A, 2013, 1, 3747. | 5.2 | 30 |
| 192 | Controlled processing of (Gd,Ln)<sub>2</sub>O<sub>3</sub>:Eu (Ln = Y, Lu) red phosphor particles and compositional effects on photoluminescence. Science and Technology of Advanced Materials, 2013, 14, 064202. | 2.8 | 30 |
| 193 | Electrophoretic deposition of Î±-alumina particles in a strong magnetic field. Journal of Materials Research, 2003, 18, 254-256. | 1.2 | 29 |
| 194 | Gadolinium Aluminate Garnet (<scp><scp>Gd<sub>3</sub>Al<sub>5</sub>O<sub>12</sub></scp></scp>): Crystal Structure Stabilization via Lutetium Doping and Properties of the (<scp><scp>Gd</scp></scp><sub>1â^'x</sub><scp><scp>Lu</scp></scp><sub>x</sub>)<sub>3</sub><scp><scp>Al</scp></scp>Solid Solutions (xÂ=Â0â€“0.5). Journal of the American Ceramic Society, 2012, 95, 931-936. | 1.9 | 29 |
| 195 | â€˜Beautifulâ€™ unconventional synthesis and processing technologies of superconductors and some other materials. Science and Technology of Advanced Materials, 2011, 12, 013001. | 2.8 | 29 |
| 196 | Study of phase transformation behaviour of alumina through precipitation method. Journal Physics D: Applied Physics, 2012, 45, 215302. | 1.3 | 29 |
| 197 | Photoluminescence from Bi5(GaCl4)3 molecular crystal. Dalton Transactions, 2012, 41, 11055. | 1.6 | 29 |
| 198 | Transparent hydroxyapatite ceramics consolidated by spark plasma sintering. Scripta Materialia, 2013, 69, 366-369. | 2.6 | 29 |

| # | Article | IF | Citations |
|---|---|---|---|
| 199 | In Situ Fabrication of <scp><scp>B</scp></scp><sub>4</sub><scp><scp>C</scp></scp>â€“<scp><scp>NbB</scp></scp><sub>2</sub> Eutectic Composites by Sparkâ€“Plasma Sintering. Journal of the American Ceramic Society, 2014, 97, 2376-2378. | 1.9 | 29 |
| 200 | Densification and Cell Performance of Gadolinium-Doped Ceria (GDC) Electrolyte/NiO-GDC Anode Laminates. Journal of the American Ceramic Society, 2009, 92, S117-S121. | 1.9 | 28 |
| 201 | Micro-emulsion synthesis of blue-luminescent silicon nanoparticles stabilized with alkoxy monolayers. Journal of Crystal Growth, 2009, 311, 634-637. | 0.7 | 28 |
| 202 | Surface modification of Ca-Î±-SiAlON: Eu2+ phosphor particles by SiO2 coating and fabrication of its deposit by electrophoretic deposition (EPD) process. Applied Surface Science, 2013, 280, 229-234. | 3.1 | 28 |
| 203 | Texture development of hydroxyapatite ceramics by colloidal processing in a high magnetic field followed by sintering. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 475, 27-33. | 2.6 | 27 |
| 204 | Effect of alumina addition on initial sintering of cubic ZrO2 (8YSZ). Ceramics International, 2010, 36, 879-885. | 2.3 | 27 |
| 205 | Highly Infrared Transparent Nanometric Tetragonal Zirconia Prepared by Highâ€Pressure Spark Plasma Sintering. Journal of the American Ceramic Society, 2011, 94, 2739-2741. | 1.9 | 27 |
| 206 | Electrophoretic Deposition of <scp><scp>Ti</scp></scp><sub>3</sub><scp><scp>SiC</scp></scp><sub>2</sub> and Texture Development in a Strong Magnetic Field. Journal of the American Ceramic Society, 2012, 95, 2857-2862. | 1.9 | 27 |
| 207 | Spark Plasma Sintering of Diamond Binderless <scp>WC</scp> Composites. Journal of the American Ceramic Society, 2012, 95, 2423-2428. | 1.9 | 27 |
| 208 | Thermal Conversion of Hollow Prussian Blue Nanoparticles into Nanoporous Iron Oxides with Crystallized Hematite Phase. European Journal of Inorganic Chemistry, 2014, 2014, 1137-1141. | 1.0 | 27 |
| 209 | Reactive spark plasma sintering of binderless WC ceramics at 1500Â°C. International Journal of Refractory Metals and Hard Materials, 2014, 43, 42-45. | 1.7 | 27 |
| 210 | Low-temperature sintering and gas desorption of gold ultrafine powders. Journal of the Less Common Metals, 1989, 147, 89-96. | 0.9 | 26 |
| 211 | Nano-engineering of zirconiaâ€“noble metals composites. Journal of the European Ceramic Society, 2004, 24, 469-473. | 2.8 | 26 |
| 212 | Densification and Superplasticity of Hydroxyapatite Ceramics. Journal of the Ceramic Society of Japan, 2005, 113, 669-673. | 1.3 | 26 |
| 213 | Conductive Polymer Coating on Nonconductive Ceramic Substrates for Use in the Electrophoretic Deposition Process. Journal of the American Ceramic Society, 2008, 91, 1674-1677. | 1.9 | 26 |
| 214 | Corrosion of ZrB<sub>2</sub> Powder During Wet Processing â€“ Analysis and Control. Journal of the American Ceramic Society, 2008, 91, 1715-1717. | 1.9 | 26 |
| 215 | Formation of zirconia films by the aerosol gas deposition method. Journal of the Ceramic Society of Japan, 2010, 118, 767-770. | 0.5 | 26 |
| 216 | Grain boundary diffusion driven spark plasma sintering of nanocrystalline zirconia. Ceramics International, 2012, 38, 4385-4389. | 2.3 | 26 |

| # | Article | IF | Citations |
|---|---|---|---|
| 217 | 45S5 BioglassÂ®â€“MWCNT composite: processing and bioactivity. Journal of Materials Science: Materials in Medicine, 2015, 26, 199. | 1.7 | 26 |
| 218 | Cation Interdiffusion in Polycrystalline Fluorite-cubic MgOâ€“ZrO2Solid Solution. Bulletin of the Chemical Society of Japan, 1982, 55, 420-422. | 2.0 | 25 |
| 219 | Effect of Ultrasonication on Colloidal Dispersion of Al<SUB>2</SUB>O<SUB>3</SUB> and ZrO<SUB>2</SUB> Powders in pH Controlled Suspension. Materials Transactions, JIM, 1998, 39, 689-692. | 0.9 | 25 |
| 220 | ProcessingâEĐependent Microstructural Factors Affecting Cavitation Damage and Tensile Ductility in a Superplastic Alumina Dispersed with Zirconia. Journal of the American Ceramic Society, 2002, 85, 2763-2770. | 1.9 | 25 |
| 221 | Preparation of CrystallineâEOriented Titania Photoelectrodes on ITO Glasses from a 2â€Propanolâ€“2,4â€Pentanedione Solvent by Electrophoretic Deposition in a Strong Magnetic Field. Journal of the American Ceramic Society, 2009, 92, 984-989. | 1.9 | 25 |
| 222 | Role of Particle Sizes in Hydrogen Generation by the Reaction of Al with Water. Journal of the American Ceramic Society, 2010, 93, 2998-3001. | 1.9 | 25 |
| 223 | Microstructure and mechanical properties of ZrB2â€“SiCâ€“BN composites fabricated by reactive hot pressing and reactive spark plasma sintering. Scripta Materialia, 2013, 68, 889-892. | 2.6 | 25 |
| 224 | Research progress in nondoped lanthanoid silicate oxyapatites as new oxygen-ion conductors. Journal of the Ceramic Society of Japan, 2014, 122, 921-939. | 0.5 | 25 |
| 225 | Tough and dense boron carbide obtained by high-pressure (300 MPa) and low-temperature (1600Â°C) spark plasma sintering. Journal of the Ceramic Society of Japan, 2014, 122, 271-275. | 0.5 | 25 |
| 226 | Effect of texture microstructure on tribological properties of tailored Ti3AlC2 ceramic. Journal of Advanced Ceramics, 2017, 6, 120-128. | 8.9 | 25 |
| 227 | Effect of MgSiN2 addition on gas pressure sintering and thermal conductivity of silicon nitride with Y2O3. Journal of the Ceramic Society of Japan, 2008, 116, 706-711. | 0.5 | 24 |
| 228 | Spectroscopic characterization of bismuth embedded Y zeolites. Applied Physics Letters, 2010, 97, . | 1.5 | 24 |
| 229 | Thermal conductivity of EB-PVD ZrO2â€“4mol% Y2O3 films using the laser flash method. Journal of Alloys and Compounds, 2011, 509, 1045-1049. | 2.8 | 24 |
| 230 | Monodisperse colloidal spheres for (Y,Eu)2O3red-emitting phosphors: establishment of processing window and size-dependent luminescence behavior. Science and Technology of Advanced Materials, 2011, 12, 055001. | 2.8 | 24 |
| 231 | High Hardness B<sub>a</sub>C<sub>b</sub>-(B<sub>x</sub>O<sub>y</sub>/BN) Composites with 3D Mesh-Like Fine Grain-Boundary Structure by Reactive Spark Plasma Sintering. Journal of Nanoscience and Nanotechnology, 2012, 12, 959-965. | 0.9 | 24 |
| 232 | Fluorescent and paramagnetic coreâ€“shell hybrid nanoparticles for bi-modal magnetic resonance/luminescence imaging. Journal of Materials Chemistry, 2012, 22, 20641. | 6.7 | 24 |
| 233 | Effective Use of Mesoporous Silica Filler: Comparative Study on Thermal Stability and Transparency of Silicone Rubbers Loaded with Various Kinds of Silica Particles. European Journal of Inorganic Chemistry, 2014, 2014, 2773-2778. | 1.0 | 24 |
| 234 | Pressureless Sintering and Reaction Mechanisms of <scp><scp>Ti</scp></scp><sub>3</sub><scp><scp>SiC</scp></scp><sub>2</sub> Ceramics. Journal of the American Ceramic Society, 2014, 97, 1407-1412. | 1.9 | 24 |

| # | Article | IF | Citations |
|---|---|---|---|
| 235 | Highâ€Strength B<sub>4</sub>Câ€“TaB<sub>2</sub> Eutectic Composites Obtained via In Situ by Spark Plasma Sintering. Journal of the American Ceramic Society, 2016, 99, 2436-2441. | 1.9 | 24 |
| 236 | Preparation and Some Electrical Properties of Yttrium-Doped Antimonic Acids. Chemistry of Materials, 2003, 15, 928-934. | 3.2 | 23 |
| 237 | Fabrication of Highly Microstructure Controlled Ceramics by Novel Colloidal Processing. Journal of the Ceramic Society of Japan, 2006, 114, 371-376. | 1.3 | 23 |
| 238 | An efficient and biocompatible fluorescence resonance energy transfer system based on lanthanide-doped nanoparticles. Nanotechnology, 2010, 21, 455703. | 1.3 | 23 |
| 239 | Synthesis, microstructure and mechanical properties of (Zr,Ti)B2-(Zr,Ti)N composites prepared by spark plasma sintering. Journal of Alloys and Compounds, 2010, 494, 266-270. | 2.8 | 23 |
| 240 | pH localization: a case study during electrophoretic deposition of ternary MAX phase carbide-Ti<sub>3</sub>SiC<sub>2</sub>. Journal of the Ceramic Society of Japan, 2013, 121, 348-354. | 0.5 | 23 |
| 241 | Fabrication of textured Ti<sub>3</sub>AlC<sub>2</sub> by spark plasma sintering and their anisotropic mechanical properties. Journal of the Ceramic Society of Japan, 2013, 121, 366-369. | 0.5 | 23 |
| 242 | Facile and green synthesis of (La<sub>0.95</sub>Eu<sub>0.05</sub>)<sub>2</sub>O<sub>2</sub>S red phosphors with sulfate-ion pillared layered hydroxides as a new type of precursor: controlled hydrothermal processing, phase evolution and photoluminescence. Science and Technology of Advanced Materials, 2014, 15, 014204. | 2.8 | 23 |
| 243 | Transparent ZnAl<sub>2</sub>O<sub>4</sub> ceramics fabricated by spark plasma sintering. Journal of the Ceramic Society of Japan, 2014, 122, 784-787. | 0.5 | 23 |
| 244 | Rietveld Texture Analysis of Alumina Ceramics by Neutron Diffraction. Chemistry of Materials, 2005, 17, 102-106. | 3.2 | 22 |
| 245 | Texture Development in Alumina Composites by Slip Casting in a Strong Magnetic Field. Journal of the Ceramic Society of Japan, 2006, 114, 59-62. | 1.3 | 22 |
| 246 | Fabrication of Hierarchically Porous Spherical Particles by Assembling Mesoporous Silica Nanoparticles via Spray Drying. Journal of Nanoscience and Nanotechnology, 2008, 8, 3101-3105. | 0.9 | 22 |
| 247 | Rare-Earth-Dependent Magnetic Anisotropy in REBa<sub>2</sub>Cu<sub>3</sub>O<sub>y</sub>. Applied Physics Express, 0, 1, 031701. | 1.1 | 22 |
| 248 | Formation of zirconia films by aerosol gas deposition method using zirconia powder produced by break-down method. Journal of the Ceramic Society of Japan, 2010, 118, 948-951. | 0.5 | 22 |
| 249 | Rudimental research progress of rare-earth silicate oxyapatites: their identification as a new compound until discovery of their oxygen ion conductivity. Journal of the Ceramic Society of Japan, 2014, 122, 649-663. | 0.5 | 22 |
| 250 | Microstructure and <scp>A</scp>nisotropic <scp>P</scp>roperties of <scp>T</scp>extured <scp>Z</scp>r<scp>B</scp><sub>2</sub> and <scp>Z</scp>r<scp>B</scp><sub>2</sub>â€“<scp>M</scp>o<scp>S</scp>i<sub>2</sub>Â<scp>C</scp>eramics <scp>P</scp>repared by <scp>S</scp>trong <scp>M</scp>agnetic <scp>F</scp>ield <scp>A</scp>lignment. International Journal of Applied Ceramic Technology, 2014, 11, 218-227. | 1.1 | 22 |
| 251 | Sintering characteristics and thermoelectric properties of Mn–Al co-doped ZnO ceramics. Journal of the Ceramic Society of Japan, 2016, 124, 515-522. | 0.5 | 22 |
| 252 | Effects of Processing Parameters on the Deposition of Yttria Partially Stabilized Zirconia Coating During Suspension Plasma Spray. Journal of the American Ceramic Society, 2016, 99, 3546-3555. | 1.9 | 22 |

| # | Article | IF | Citations |
|---|---|---|---|
| 253 | Densification kinetics during isothermal sintering of 8YSZ. Journal of the European Ceramic Society, 2016, 36, 1269-1275. | 2.8 | 22 |
| 254 | Highâ€temperature strength and plastic deformation behavior of niobium diboride consolidated by spark plasma sintering. Journal of the American Ceramic Society, 2017, 100, 5295-5305. | 1.9 | 22 |
| 255 | Stabilization of Yttria Aqueous Suspension with Polyethylenimine and Electrophoretic Deposition.. Journal of the Ceramic Society of Japan, 2002, 110, 840-843. | 1.3 | 21 |
| 256 | Nano-Blast Synthesis of Nano-size CeO2-Gd2O3 Powders. Journal of the American Ceramic Society, 2006, 89, 1822-1826. | 1.9 | 21 |
| 257 | Effect of Milling Treatment on Texture Development of Hydroxyapatite Ceramics by Slip Casting in High Magnetic Field. Materials Transactions, 2007, 48, 2861-2866. | 0.4 | 21 |
| 258 | Appearance of high-temperature phase in zirconia films made by aerosol gas deposition method. Journal of the Ceramic Society of Japan, 2011, 119, 271-276. | 0.5 | 21 |
| 259 | Intensity of sulfonitric treatment on multiwall carbon nanotubes. Chemical Physics Letters, 2017, 689, 135-141. | 1.2 | 21 |
| 260 | Influence of Washing on Zirconia Powder for Electrophoretic Deposition. Journal of the American Ceramic Society, 2001, 84, 666-668. | 1.9 | 20 |
| 261 | Microstructural Design for High-Strain-Rate Superplastic Oxide Ceramics. Journal of the Ceramic Society of Japan, 2005, 113, 191-197. | 1.3 | 20 |
| 262 | Sonochemical Preparation and Properties of Pt-3Y-TZP Nano-Composites. Journal of the American Ceramic Society, 2005, 88, 639-644. | 1.9 | 20 |
| 263 | Highly controlled orientation of CaBi4Ti4O15 using a strong magnetic field. Applied Physics Letters, 2006, 89, 132902. | 1.5 | 20 |
| 264 | Fabrication of Textured α-SiC Using Colloidal Processing and a Strong Magnetic Field. Materials Transactions, 2007, 48, 2883-2887. | 0.4 | 20 |
| 265 | Phosphate Esters as Dispersants for the Cathodic Electrophoretic Deposition of Alumina Suspensions. Journal of the American Ceramic Society, 2008, 91, 1923-1926. | 1.9 | 20 |
| 266 | Fabrication of GDC/LSGM/GDC tri-layers on polypyrrole-coated NiO-YSZ by electrophoretic deposition for anode-supported SOFC. Journal of the Ceramic Society of Japan, 2009, 117, 1246-1248. | 0.5 | 20 |
| 267 | Emission color tuning of laminated and mixed SiAlON phosphor films by electrophoretic deposition. Journal of the Ceramic Society of Japan, 2010, 118, 1-4. | 0.5 | 20 |
| 268 | Effect of Gd2O3 on the thermal conductivity of ZrO2â€“4mol.% Y2O3 ceramics fabricated by spark plasma sintering. Scripta Materialia, 2013, 69, 165-170. | 2.6 | 20 |
| 269 | Ideal design of textured LiCoO2 sintered electrode for Li-ion secondary battery. APL Materials, 2013, 1, . | 2.2 | 20 |
| 270 | Fabrication, microstructure and properties of in situ synthesized B4C^\|^ndash;NbB2 eutectic composites by spark plasma sintering. Journal of the Ceramic Society of Japan, 2015, 123, 33-37. | 0.5 | 20 |

| # | Article | IF | Citations |
|---|---|---|---|
| 271 | Highly anisotropic single crystal-like La2Ti2O7 ceramic produced by combined magnetic field alignment and templated grain growth. Journal of the European Ceramic Society, 2015, 35, 1771-1776. | 2.8 | 20 |
| 272 | Columnar and DVC-structured thermal barrier coatings deposited by suspension plasma spray: high-temperature stability and their corrosion resistance to the molten salt. Ceramics International, 2016, 42, 16822-16832. | 2.3 | 20 |
| 273 | Electrophoretic Deposition of Alumina on Conductive Polymer-Coated Ceramic Substrates. Journal of the Ceramic Society of Japan, 2006, 114, 55-58. | 1.3 | 19 |
| 274 | A practical technique for the fabrication of highly ordered macroporous structures of inorganic oxides. Materials Research Bulletin, 2006, 41, 268-273. | 2.7 | 19 |
| 275 | Fabrication of textured alumina by magnetic alignment via gelcasting based on low-toxic system. Journal of the European Ceramic Society, 2014, 34, 3841-3848. | 2.8 | 19 |
| 276 | Electrophoretic fabrication of a-b plane oriented La2NiO4 cathode onto electrolyte in strong magnetic field for low-temperature operating solid oxide fuel cell. Journal of the European Ceramic Society, 2016, 36, 4077-4082. | 2.8 | 19 |
| 277 | Layer Structure of Textured CaBi4Ti4O15Ceramics Fabricated by Slip Casting in High Magnetic Field. Journal of the American Ceramic Society, 2007, 90, 1463-1466. | 1.9 | 18 |
| 278 | Spherical Mesoporous Silica Particles with Titanium Dioxide Nanoparticles by an Aerosol-assisted Coassembly. Chemistry Letters, 2008, 37, 72-73. | 0.7 | 18 |
| 279 | Preparation of Highly Oriented Transparent (Sr,Ba)Nb2O6Ceramics and Their Ferroelectric Properties. Japanese Journal of Applied Physics, 2009, 48, 031405. | 0.8 | 18 |
| 280 | Simultaneous alignment and micropatterning of carbon nanotubes using modulated magnetic field. Science and Technology of Advanced Materials, 2009, 10, 014603. | 2.8 | 18 |
| 281 | Wet Processing and Lowâ€Temperature Pressureless Sintering of SiC Using a Novel Al<sub>3</sub>BC<sub>3</sub>Sintering Additive. Journal of the American Ceramic Society, 2009, 92, 2888-2893. | 1.9 | 18 |
| 282 | Impact of magnetic field on molecular alignment and electrical conductivity in phthalocyanine nanowires. Journal of Materials Chemistry, 2012, 22, 8629. | 6.7 | 18 |
| 283 | Photoluminescent properties of new up-conversion phosphors of Yb/Tm co-doped (Gd1â"xLux)3Al5O12 (x=0.1â€"0.5) garnet solid solutions. Journal of Alloys and Compounds, 2014, 582, 623-627. | 2.8 | 18 |
| 284 | Fabrication of textured Ti<sub>3</sub>SiC<sub>2</sub> ceramic by slip casting in a strong magnetic field and pressureless sintering. Journal of the Ceramic Society of Japan, 2014, 122, 817-821. | 0.5 | 18 |
| 285 | Consolidation of B4C-TaB2 eutectic composites by spark plasma sintering. Journal of Asian Ceramic Societies, 2015, 3, 369-372. | 1.0 | 18 |
| 286 | Synthesis of Highly Photocatalytic TiO<SUB>2</SUB> Microflowers Based on Solvothermal Approach Using <I>N,N</I>-Dimethylformamide. Journal of Nanoscience and Nanotechnology, 2015, 15, 4747-4751. | 0.9 | 18 |
| 287 | Development of an electrochemical impedance analysis program based on the expanded measurement model. Journal of the Ceramic Society of Japan, 2016, 124, 943-949. | 0.5 | 18 |
| 288 | Synthesis of Aligned Alumina by Slip Casting in a High Magnetic Field and Heat Treatment.. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2000, 47, 1010-1014. | 0.1 | 17 |

| # | Article | IF | Citations |
|---|---|---|---|
| 289 | Synthesis and Sintering of Zirconia Nano-Powder by Non-Isothermal Decomposition from Hydroxide.. Journal of the Ceramic Society of Japan, 2001, 109, 500-505. | 1.3 | 17 |
| 290 | Alignment of TiO2 particles by electrophoretic deposition in a high magnetic field. Materials Research Bulletin, 2004, 39, 2155-2161. | 2.7 | 17 |
| 291 | Fluorescence detection and imaging of amino-functionalized organic monolayer. Thin Solid Films, 2008, 516, 2541-2546. | 0.8 | 17 |
| 292 | Nanoreactor engineering and SPS densification of multimetal oxide ceramic nanopowders. Journal of the European Ceramic Society, 2008, 28, 919-927. | 2.8 | 17 |
| 293 | Hydrolysis and Dispersion Properties of Aqueous Y<sub>2</sub>Si<sub>2</sub>O<sub>7</sub> Suspensions. Journal of the American Ceramic Society, 2009, 92, 54-61. | 1.9 | 17 |
| 294 | Simple preparation of silica and alumina with a hierarchical pore system via the dual-templating method. Science and Technology of Advanced Materials, 2009, 10, 025002. | 2.8 | 17 |
| 295 | Si<SUB>3</SUB>N<SUB>4</SUB>â€“TiN Nanocomposite by Nitration of TiSi<SUB>2</SUB> and Consolidation by Hot Pressing and Spark Plasma Sintering. Journal of Nanoscience and Nanotechnology, 2009, 9, 6381-6389. | 0.9 | 17 |
| 296 | Near-infrared photoluminescence and Raman characterization of bismuth-embedded sodalite nanocrystals. Optics Letters, 2010, 35, 1743. | 1.7 | 17 |
| 297 | White-light-emitting Liquefiable Silicon Nanocrystals. Chemistry Letters, 2012, 41, 1157-1159. | 0.7 | 17 |
| 298 | Porous calcium sulfate ceramics with tunable degradation rate. Journal of Materials Science: Materials in Medicine, 2012, 23, 2437-2443. | 1.7 | 17 |
| 299 | Synthesis, characterization, and photoluminescent properties of (La0.95Eu0.05)2O2SO4 red phosphors with layered hydroxyl sulfate as precursor. Journal of Alloys and Compounds, 2014, 603, 28-34. | 2.8 | 17 |
| 300 | Photoluminescent and cathodoluminescent performances of Tb<sup>3+</sup> in Lu<sup>3+</sup>-stabilized gadolinium aluminate garnet solid-solutions of [(Gd<sub>1â”x</sub>Lu<sub>x</sub>)<sub>1â”y</sub>Tb<sub>y</sub>]<sub>3</sub>Al<sub>5</sub>O<sub>12</sub>. RSC Advances, 2015, 5, 59686-59695. | 1.7 | 17 |
| 301 | Inversion domain boundaries in Mn and Al dualâ€doped ZnO: Atomic structure and electronic properties. Journal of the American Ceramic Society, 2017, 100, 4252-4262. | 1.9 | 17 |
| 302 | Photoluminescent and scintillant properties of highly transparent [(Y<sub>1â€</sub><sub>x</sub>Gd<sub>x</sub>)<sub>0.99</sub>Dy<sub>0.01</sub>]<sub>2</sub>O<sub>3</sub> (xÂ= 0 and 0.4) ceramics. Journal of the American Ceramic Society, 2019, 102, 4773-4780. | 3.8 | 17 |
| 303 | Cation Interdiffusion in Polycrystalline Cubic C-Type Yttria-Zirconia-Hafnia Solid Solutions. Journal of the American Ceramic Society, 1989, 72, 2121-2125. | 1.9 | 16 |
| 304 | Liquid Manipulation Lithography to Fabricate a Multifunctional Microarray of Organosilanes on an Oxide Surface under Ambient Conditions. Advanced Functional Materials, 2008, 18, 3049-3055. | 7.8 | 16 |
| 305 | Exploration of a Standing Mesochannel System with Antimatter/Matter Atomic Probes. Advanced Materials, 2008, 20, 4728-4733. | 11.1 | 16 |
| 306 | Facile patterning of assembled silica nanoparticles with a closely packed arrangement through guided growth. Journal of Materials Chemistry, 2009, 19, 1964. | 6.7 | 16 |

| # | Article | IF | Citations |
|---|---|---|---|
| 307 | Coexistence of Aâ€•and Bâ€Site Vacancy Compensation in Laâ€Doped Sr<sub>1â^'x</sub>Ba<sub>x</sub>TiO<sub>3</sub>. Journal of the American Ceramic Society, 2010, 93, 2903-2908. | 1.9 | 16 |
| 308 | Sensitized broadband near-infrared luminescence from bismuth-doped silicon-rich silica films. Optics Letters, 2011, 36, 4221. | 1.7 | 16 |
| 309 | Orientation control of mordenite zeolite in strong magnetic field. Microporous and Mesoporous Materials, 2012, 151, 188-194. | 2.2 | 16 |
| 310 | Electric field in SPS: geometry and pulsed current effects. Journal of the Ceramic Society of Japan, 2013, 121, 524-526. | 0.5 | 16 |
| 311 | Microwave Sintering of <scp><scp>Ti</scp></scp><sub>3</sub><scp><scp>Si</scp></scp>(<scp><scp>Al</scp></scp>)<scp><scp>C</scp></scp><sub>2</sub> Ceramic. Journal of the American Ceramic Society, 2014, 97, 2731-2735. | 1.9 | 16 |
| 312 | Preparation of macroporous titania from nanoparticle building blocks and polymer templates. Scripta Materialia, 2003, 49, 735-740. | 2.6 | 15 |
| 313 | Control of Crystal Orientation of Hydroxyapatite by using a High Magnetic Field. Key Engineering Materials, 2003, 240-242, 513-516. | 0.4 | 15 |
| 314 | Strain Softening and Hardening during Superplasticâ€Like Flow in a Fineâ€Grained MgAl<sub>2</sub>O<sub>4</sub>Spinel Polycrystal. Journal of the American Ceramic Society, 2004, 87, 1102-1109. | 1.9 | 15 |
| 315 | Dispersion of SiC Suspensions with Cationic Dispersant of Polyethylenimine. Journal of the Ceramic Society of Japan, 2005, 113, 584-587. | 1.3 | 15 |
| 316 | The Effect of Embedding Conditions on the Thermal Conductivity of .BETA.-Si3N4. Journal of the Ceramic Society of Japan, 2006, 114, 1093-1096. | 1.3 | 15 |
| 317 | Highly Texturing Î²-Sialon Via Strong Magnetic Field Alignment. Journal of the American Ceramic Society, 2008, 91, 620-623. | 1.9 | 15 |
| 318 | Texture development in 3mol% yttria-stabilized tetragonal zirconia. Materials Research Bulletin, 2009, 44, 1802-1805. | 2.7 | 15 |
| 319 | Orientation Dependence of Semiconductor Properties in Anatase TiO[sub 2] Polycrystalline Aggregates. Journal of the Electrochemical Society, 2010, 157, H65. | 1.3 | 15 |
| 320 | Superplastic deformation of hydroxyapatite ceramics with B2O3 or Na2O addition fabricated by pulse current pressure sintering. Journal of the European Ceramic Society, 2011, 31, 2641-2648. | 2.8 | 15 |
| 321 | Nanocrystalline ZrB<sub>2</sub> powders prepared by mechanical alloying. Journal of Asian Ceramic Societies, 2013, 1, 304-307. | 1.0 | 15 |
| 322 | Twoâ€Dimensional Orientation in <scp><scp>Bi</scp></scp><sub>4</sub><scp><scp>Ti</scp></scp><sub>3</sub><scp><scp>O</scp></scp><sub>12</sub> Prepared Using Platelet Particles and a Magnetic Field. Journal of the American Ceramic Society, 2013, 96, 1085-1089. | 1.9 | 15 |
| 323 | Sintering and Gas Release of Ag Ultrafine Powders. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1989, 53, 614-620. | 0.2 | 15 |
| 324 | Hydrogen sorption-desorption characteristics of mixed and composite Niî—¸TiN nanoparticles. Scripta Materialia, 1996, 7, 341-353. | 0.5 | 14 |

| # | Article | IF | Citations |
|---|---|---|---|
| 325 | Preparation and Characterization of Fine Shirasuballoons. Journal of the Ceramic Society of Japan, 1996, 104, 963-968. | 1.3 | 14 |
| 326 | Low-temperature preparation of lithium vanadium oxides by solution processing. Journal of the European Ceramic Society, 2004, 24, 405-408. | 2.8 | 14 |
| 327 | 3-Dimensional Grain Orientation of RE-Ba-Cu-O Superconductors Using a Modulated Oval Magnetic Field. IEEE Transactions on Applied Superconductivity, 2009, 19, 2961-2964. | 1.1 | 14 |
| 328 | Hybrid processing and anisotropic sintering shrinkage in textured ZnO ceramics. Science and Technology of Advanced Materials, 2010, 11, 065006. | 2.8 | 14 |
| 329 | Significant third-order optical nonlinearity enhancement of gold nanoparticle incorporated mesoporous silica thin films by magnetic field thermal treatment. Journal of Materials Chemistry, 2010, 20, 8399. | 6.7 | 14 |
| 330 | Influence of the zirconia transformation on the thermal behavior of zirconâ€“zirconia composites. Journal of Thermal Analysis and Calorimetry, 2012, 110, 695-705. | 2.0 | 14 |
| 331 | Densification Kinetics of Nanocrystalline Zirconia Powder Using Microwave and Spark Plasma Sinteringâ€”A Comparative Study. Journal of Nanoscience and Nanotechnology, 2012, 12, 4577-4582. | 0.9 | 14 |
| 332 | Synthesis, microstructure and mechanical properties of reactively sintered ZrB 2 â€“SiCâ€“ZrN composites. Ceramics International, 2013, 39, 7273-7277. | 2.3 | 14 |
| 333 | Analysis of abnormal grain growth of oriented LiCoO2 prepared by slip casting in a strong magnetic field. Journal of the European Ceramic Society, 2013, 33, 3059-3064. | 2.8 | 14 |
| 334 | Perfect Highâ€Temperature Plasticity Realized in Multiwalled Carbon Nanotubeâ€Concentrated Î±â€<scp><scp>Al</scp></scp><sub>2</sub><scp><scp>O</scp></scp><sub>3</sub> Hybrid. Journal of the American Ceramic Society, 2013, 96, 1904-1908. | 1.9 | 14 |
| 335 | Mechanically reliable thermoelectric (TE) nanocomposites by dispersing and embedding TE-nanostructures inside a tetragonal ZrO2matrix: the concept and experimental demonstration in grapheneoxideâ€“3YSZ system. Science and Technology of Advanced Materials, 2014, 15, 014201. | 2.8 | 14 |
| 336 | Controlled Photocatalytic Growth of Ag Nanocrystals on Brookite and Rutile and Their SERS Performance. ACS Applied Materials & Interfaces, 2014, 6, 236-243. | 4.0 | 14 |
| 337 | Controlled Crystallization of Cyanoâ€Bridged Cuâ€“Pt Coordination Polymers with Twoâ€Dimensional Morphology. Chemistry - an Asian Journal, 2014, 9, 1511-1514. | 1.7 | 14 |
| 338 | Synthesis of Multilayered Starâ€Shaped B<sub>6</sub>O Particles Using the Seedâ€Mediated Growth Method. Journal of the American Ceramic Society, 2015, 98, 3635-3638. | 1.9 | 14 |
| 339 | Yellow-emitting (Tb 1â^'x Ce x ) 3 Al 5 O 12 phosphor powder and ceramic (0â‰¤xâ‰¤0.05): Phase evolution, photoluminescence, and the process of energy transfer. Ceramics International, 2017, 43, 8163-8170. | 2.3 | 14 |
| 340 | Surface Phases of Iron Ultrafine Powders Estimated from Thermal Desorption Measurements and Their Reduction Characteristics. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1991, 55, 219-226. | 0.2 | 14 |
| 341 | Hydrogen desorption characteristics of composite Co-TiN nanoparticles. Applied Surface Science, 1996, 100-101, 232-237. | 3.1 | 13 |
| 342 | Development of Thermoelectric Bi-Based Cobaltites with an Easy Axis of Magnetization Parallel to theC-Axis for Magnetic Alignment. Japanese Journal of Applied Physics, 2005, 44, L1263-L1266. | 0.8 | 13 |

| # | Article | IF | Citations |
|---|---|---|---|
| 343 | Electrophoretic deposition of Eu2+ doped Ca-.ALPHA.-SiAlON phosphor particles for packaging of flat pseudo-white light emitting devices. Journal of the Ceramic Society of Japan, 2008, 116, 740-743. | 0.5 | 13 |
| 344 | Effect of bead-milling treatment on the dispersion of tetragonal zirconia nanopowder and improvements of two-step sintering. Journal of the Ceramic Society of Japan, 2009, 117, 470-474. | 0.5 | 13 |
| 345 | Fabrication of c-axis oriented zinc oxide by electrophoretic deposition in a rotating magnetic field. Journal of the European Ceramic Society, 2010, 30, 1171-1175. | 2.8 | 13 |
| 346 | Role of Modification Agent Coverage in Hydrogen Generation by the Reaction of Al with Water. Journal of the American Ceramic Society, 2010, 93, 2534-2536. | 1.9 | 13 |
| 347 | Texture development in anatase and rutile prepared by slip casting in a strong magnetic field. Journal of the Ceramic Society of Japan, 2011, 119, 334-337. | 0.5 | 13 |
| 348 | Phase Relation Studies in the ZrO2-CeO2-La2O3 System at 1500Â°C. Journal of the American Ceramic Society, 2011, 94, 1911-1919. | 1.9 | 13 |
| 349 | Fabrication and Characterization of Transparent (Y<sub>0.98â^'x</sub>Tb<sub>0.02</sub>Eu<sub>x</sub>)<sub>2</sub>O<sub>3</sub> Ceramics with Colorâ€Tailorable Emission. Journal of the American Ceramic Society, 2015, 98, 3877-3883. | 1.9 | 13 |
| 350 | Highâ€Temperature Strength of Boron Suboxide Ceramic Consolidated by Spark Plasma Sintering. Journal of the American Ceramic Society, 2016, 99, 2769-2777. | 1.9 | 13 |
| 351 | High temperature flexural strength in monolithic boron carbide ceramic obtained from two different raw powders by spark plasma sintering. Journal of the Ceramic Society of Japan, 2016, 124, 587-592. | 0.5 | 13 |
| 352 | Highly Segmented Thermal Barrier Coatings Deposited by Suspension Plasma Spray: Effects of Spray Process on Microstructure. Journal of Thermal Spray Technology, 2016, 25, 1638-1649. | 1.6 | 13 |
| 353 | Hardness and toughness control of brittle boron suboxide ceramics by consolidation of star-shaped particles by spark plasma sintering. Ceramics International, 2016, 42, 3525-3530. | 2.3 | 13 |
| 354 | Improved galvanic replacement growth of Ag microstructures on Cu micro-grid for enhanced SERS detection of organic molecules. Materials Science and Engineering C, 2016, 61, 97-104. | 3.8 | 13 |
| 355 | The Crystal Orientation Taking Account of Gravity Force under High Magnetic Field. ISIJ International, 2005, 45, 997-1000. | 0.6 | 13 |
| 356 | Colloidal Processing for Fine Particles of Al2O3-15vol% ZrO2 System.. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 1997, 44, 356-361. | 0.1 | 12 |
| 357 | Fabrication of Ordered Macroporous Structures Based on Hetero-Coagulation Process Using Nanoparticle as Building Blocks. Chemistry Letters, 2003, 32, 276-277. | 0.7 | 12 |
| 358 | Texture of Alumina by Neutron Diffraction and SEM-EBSD. Materials Science Forum, 2005, 495-497, 1395-1400. | 0.3 | 12 |
| 359 | Texturing behavior in sintered reaction-bonded silicon nitride via strong magnetic field alignment. Journal of the European Ceramic Society, 2008, 28, 929-934. | 2.8 | 12 |
| 360 | In situobservation of magnetic orientation process of feeble magnetic materials under high magnetic fields. Science and Technology of Advanced Materials, 2008, 9, 024211. | 2.8 | 12 |

| # | Article | IF | Citations |
|---|---|---|---|
| 361 | Effects of Initial Punch-Die Clearance in Spark Plasma Sintering Process. Materials Transactions, 2008, 49, 2899-2906. | 0.4 | 12 |
| 362 | Magnetically induced orientation of mesochannels inside porous anodic alumina membranes under ultra high magnetic field of 30 T: Confirmation by TEM. Journal of the Ceramic Society of Japan, 2008, 116, 1244-1248. | 0.5 | 12 |
| 363 | Low-temperature formation of Ln silicate oxyapatite (Ln=La and Nd) by the water-based solâ€“gel method. Solid State Ionics, 2011, 204-205, 91-96. | 1.3 | 12 |
| 364 | Deflocculation and stabilization of Ti<sub>3</sub>SiC<sub>2</sub> ceramic powder in gelcasting process. Journal of the Ceramic Society of Japan, 2015, 123, 1010-1017. | 0.5 | 12 |
| 365 | Synthesis of iron oxide nanoparticles with different morphologies by precipitation method with and without chitosan addition. Journal of the Ceramic Society of Japan, 2016, 124, 489-494. | 0.5 | 12 |
| 366 | Low-temperature spark plasma sintering of alumina by using SiC molding set. Journal of the Ceramic Society of Japan, 2016, 124, 1141-1145. | 0.5 | 12 |
| 367 | Spark Plasma Sintering of Highly Transparent Hydroxyapatite Ceramics. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2017, 64, 547-551. | 0.1 | 12 |
| 368 | Preparation of Fine Shirasuballoons from Vitric Volcaniclastic Materials.. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 1995, 42, 1128-1135. | 0.1 | 11 |
| 369 | Effect of MgAl<SUB>2</SUB>O<SUB>4</SUB> Spinel Dispersion on High-Strain-Rate Superplasticity in Tetragonal ZrO<SUB>2</SUB> Polycrystal. Materials Transactions, 2004, 45, 2073-2077. | 0.4 | 11 |
| 370 | Effect of Bi(B)O3 perovskite substitution on enhanced tetragonality and ferroelectric transition temperature in Pb(Zr,Ti)O3 ceramics. Materials Chemistry and Physics, 2011, 129, 322-325. | 2.0 | 11 |
| 371 | Textured Ti<sub>3</sub>SiC<sub>2</sub> by gelcasting in a strong magnetic field. Journal of the Ceramic Society of Japan, 2012, 120, 544-547. | 0.5 | 11 |
| 372 | Fabrication and Analysis of the Oriented <scp><scp>LiCoO</scp></scp><sub>2</sub> by Slip Casting in a Strong Magnetic Field. Journal of the American Ceramic Society, 2012, 95, 3428-3433. | 1.9 | 11 |
| 373 | Fabrication of Dense ZrO2/CNT Composites: Influence of Bead-Milling Treatment. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 4374-4381. | 1.1 | 11 |
| 374 | Phosphor Deposits of Î²-Sialon:Eu2+ Mixed with SnO2 Nanoparticles Fabricated by the Electrophoretic Deposition (EPD) Process. Materials, 2014, 7, 3623-3633. | 1.3 | 11 |
| 375 | Beta-sialon phosphor deposits fabricated by electrophoretic deposition (EPD) process in a magnetic field. Ceramics International, 2014, 40, 8369-8375. | 2.3 | 11 |
| 376 | B<sub>6</sub>O ceramic by <i>in-situ</i> reactive spark plasma sintering of a B<sub>2</sub>O<sub>3</sub> and B powder mixture. Journal of the Ceramic Society of Japan, 2014, 122, 336-340. | 0.5 | 11 |
| 377 | Electrophoretic deposition for obtaining dense lanthanum silicate oxyapatite (LSO). Ceramics International, 2016, 42, 19283-19288. | 2.3 | 11 |
| 378 | Enhancement of MgO Evaporation from MgO-Stabilized ZrO2 by Grain-Boundary Diffusion. Journal of the American Ceramic Society, 1986, 69, 111-113. | 1.9 | 10 |

| # | Article | IF | Citations |
|---|---|---|---|
| 379 | Sintering and Gas Desorption Characteristics of Copper Ultrafine Powders. Materials Transactions, JIM, 1990, 31, 802-809. | 0.9 | 10 |
| 380 | The manufacturing process of fine Shirasu balloons using a fluidized sand-bed furnace. Advanced Powder Technology, 2000, 11, 503-516. | 2.0 | 10 |
| 381 | Synthesis and Characterization of Nanosize Ceria-Gadolinia Powders. Journal of the Ceramic Society of Japan, 2005, 113, 101-106. | 1.3 | 10 |
| 382 | Pulsed-DC Electrophoretic Deposition (EPD) of Aqueous Alumina Suspension for Controlling Bubble Incorporation and Deposit Microstructure. Key Engineering Materials, 0, 412, 39-44. | 0.4 | 10 |
| 383 | Wavelength-Selectivity in Photochemical Reaction Between 1-Alcohol and Hydrogen-Terminated Silicon. Journal of Nanoscience and Nanotechnology, 2009, 9, 666-669. | 0.9 | 10 |
| 384 | Influence of uni and bi-modal SiC composition on mechanical properties and microstructure of reaction-bonded SiC ceramics. Journal of the Ceramic Society of Japan, 2010, 118, 1028-1031. | 0.5 | 10 |
| 385 | Near-infrared photoluminescence from molecular crystals containing tellurium. Journal of Materials Chemistry, 2012, 22, 24792. | 6.7 | 10 |
| 386 | Theoretical modeling of electrode impedance for an oxygen ion conductor and metallic electrode system based on the interfacial conductivity theory. Solid State Ionics, 2013, 232, 49-57. | 1.3 | 10 |
| 387 | Grain-boundary sliding model of pore shrinkage in late intermediate sintering stage under hydrostatic pressure. Acta Materialia, 2013, 61, 6661-6669. | 3.8 | 10 |
| 388 | Chemical Reactivity and Cathode Properties of LaCoO<sub>3</sub> on Lanthanum Silicate Oxyapatite Electrolyte. Key Engineering Materials, 0, 616, 120-128. | 0.4 | 10 |
| 389 | EDTA-assisted phase conversion synthesis of (Gd<sub>0.95</sub>RE<sub>0.05</sub>)PO<sub>4</sub> nanowires (RE = Eu, Tb) and investigation of photoluminescence. Science and Technology of Advanced Materials, 2017, 18, 447-457. | 2.8 | 10 |
| 390 | Fabrication and Mechanical Properties of Textured Ti<sub>3</sub>SiC<sub>2</sub> Systems Using Commercial Powder. Materials Transactions, 2018, 59, 829-834. | 0.4 | 10 |
| 391 | Sintering characteristics of cobalt ultrafine powders. Journal of the Less Common Metals, 1991, 168, 277-287. | 0.9 | 9 |
| 392 | Control of Texture in Electroceramics by Slip-Casting in a High Magnetic Field. Key Engineering Materials, 2003, 248, 191-194. | 0.4 | 9 |
| 393 | Micro-Scale Patterning of Ceramic Colloidal Suspension by Micro Molding in Capillaries (MIMIC) with Assistance of Highly Infiltrating Liquid. Journal of the Ceramic Society of Japan, 2006, 114, 725-728. | 1.3 | 9 |
| 394 | An efficient matrix that resists the nonspecific adsorption of protein to fabricate carbohydrate arrays on silicon. Thin Solid Films, 2006, 499, 213-218. | 0.8 | 9 |
| 395 | Effect of grain size on electrical properties of scandia-stabilized zirconia. Journal of the Ceramic Society of Japan, 2010, 118, 1038-1043. | 0.5 | 9 |
| 396 | Determination of Easy Magnetization Axis of Mordenite Zeolite. Chemistry Letters, 2010, 39, 347-349. | 0.7 | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 397 | Microstructure Control of Barium Titanate â€“ Potassium Niobate Solid Solution System Ceramics by MPB Engineering and their Piezoelectric Properties. Key Engineering Materials, 2011, 485, 89-92. | 0.4 | 9 |
| 398 | Fabrication of the c-axis oriented zeolite L compacts using strong magnetic field. Materials Letters, 2013, 93, 408-410. | 1.3 | 9 |
| 399 | Challenges of nanostructuring and functional properties for selected bulk materials obtained by reactive spark plasma sintering. Japanese Journal of Applied Physics, 2014, 53, 05FB22. | 0.8 | 9 |
| 400 | Consolidation of B<sub>4</sub>C–VB<sub>2</sub> eutectic ceramics by spark plasma sintering. Journal of the Ceramic Society of Japan, 2015, 123, 1051-1054. | 0.5 | 9 |
| 401 | Inversion domain network stabilization and spinel phase suppression in ZnO. Journal of the American Ceramic Society, 2018, 101, 2616-2626. | 1.9 | 9 |
| 402 | Preparation and Properties of Lightweight Pottery Using Shirasuballoon. Journal of the Ceramic Society of Japan, 1998, 106, 333-338. | 1.3 | 8 |
| 403 | Cavity Damage Accumulation in Alumina Doped with Zirconia or Magnesia. Materials Science Forum, 1999, 304-306, 431-436. | 0.3 | 8 |
| 404 | Effect of cavitation on superplastic flow of 10% zirconia-dispersed alumina. Scripta Materialia, 2001, 45, 61-67. | 2.6 | 8 |
| 405 | Area-selective assembly of high crystalline tin-dopedâ€“indiumâ€“oxide particles onto monolayer template. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2005, 23, 1146-1151. | 0.9 | 8 |
| 406 | Nano-explosion synthesis of multi-component ceramic nano-composites. Journal of the European Ceramic Society, 2007, 27, 585-592. | 2.8 | 8 |
| 407 | Photoanode characteristics of dye-sensitized solar cell containing TiO2 layers with different crystalline orientations. Journal of Materials Research, 2009, 24, 1417-1421. | 1.2 | 8 |
| 408 | Dispersion and Shortening of Multi-Walled Carbon Nanotubes by Size Modification. Materials Transactions, 2010, 51, 192-195. | 0.4 | 8 |
| 409 | Magnetic field-induced off-resonance third-order optical nonlinearity of iron oxide nanoparticles incorporated mesoporous silica thin films during heat treatment. Optics Express, 2010, 18, 2010. | 1.7 | 8 |
| 410 | Textured lead titanate ceramics fabricated by slip casting under a high magnetic field. Journal of the Ceramic Society of Japan, 2011, 119, 60-64. | 0.5 | 8 |
| 411 | Fabrication of the oriented LiCoO2 sheet using a strong magnetic field. Journal of the Ceramic Society of Japan, 2011, 119, 701-705. | 0.5 | 8 |
| 412 | One-step route to a hybrid TiO2/TixW1â^'xN nanocomposite byin situselective carbothermal nitridation. Science and Technology of Advanced Materials, 2012, 13, 035001. | 2.8 | 8 |
| 413 | Effective preparation of SiC nanoparticles by the reaction of thermal nitrogen plasma with solid SiC. Journal of Alloys and Compounds, 2012, 520, 127-131. | 2.8 | 8 |
| 414 | Mechanochemical activation of aluminum powder and synthesis of alumina based ceramic composites. Ceramics International, 2013, 39, 8141-8146. | 2.3 | 8 |

| # | Article | IF | Citations |
|---|---|---|---|
| 415 | Theoretical modeling of electrode impedance for an oxygen ion conductor and metallic electrode system based on the interfacial conductivity theory. Part II: Case of the limiting process by non-steady-state surface diffusion. Solid State Ionics, 2013, 249-250, 78-85. | 1.3 | 8 |
| 416 | Discovery of a new crystalline phase: BiGeO<sub>2</sub>(OH)<sub>2</sub>(NO<sub>3</sub>). CrystEngComm, 2014, 16, 10080-10088. | 1.3 | 8 |
| 417 | Positional-dependent luminescence property of Î²-SiAlON:Eu2+ phosphor particle. Applied Physics Letters, 2014, 104, . | 1.5 | 8 |
| 418 | Microstructure and adsorption property of nanocarbide-derived carbon (CDC) synthesized at ambient temperature. Materials Letters, 2014, 130, 188-191. | 1.3 | 8 |
| 419 | Sinterable powder fabrication of lanthanum silicate oxyapatite based on solid-state reaction method. Journal of the Ceramic Society of Japan, 2015, 123, 274-279. | 0.5 | 8 |
| 420 | Fabrication of (111)-oriented Tetragonal BaTiO<sub>3</sub> Ceramics by an Electrophoretic Deposition in a High Magnetic Field. Transactions of the Materials Research Society of Japan, 2015, 40, 223-226. | 0.2 | 8 |
| 421 | Processing and enhanced piezoelectric properties of highly oriented compositionally modified Pb(Zr,Ti)O<sub>3</sub>ceramics fabricated by magnetic alignment. Applied Physics Express, 2015, 8, 041501. | 1.1 | 8 |
| 422 | Properties of Fine Shirasuballoons. Journal of the Ceramic Society of Japan, 1997, 105, 79-84. | 1.3 | 7 |
| 423 | Fracture Toughness of Yttria-Stabilized Cubic Zirconia (8Y-CSZ) Doped with Pure Silica. Materials Transactions, 2004, 45, 3324-3329. | 0.4 | 7 |
| 424 | One-Dimensional Self-Assembly of Alkoxy-Capped Silicon Nanoparticles. Journal of Nanoscience and Nanotechnology, 2006, 6, 1823-1825. | 0.9 | 7 |
| 425 | Large-Scale Patterning of TiO2 Nano Powders Using Micro Molds. Journal of the Ceramic Society of Japan, 2007, 115, 697-700. | 0.5 | 7 |
| 426 | Improvement of thermoelectric performance in magnetically c-axis-oriented bismuth-based cobaltites. Scripta Materialia, 2007, 57, 333-336. | 2.6 | 7 |
| 427 | Control of lattice spacing in a triangular lattice of feeble magnetic particles formed by induced magnetic dipole interactions. Science and Technology of Advanced Materials, 2009, 10, 014608. | 2.8 | 7 |
| 428 | Aqueous Dispersions of Carbon Nanotubes Stabilized by Zirconium Acetate. Journal of Nanoscience and Nanotechnology, 2009, 9, 662-665. | 0.9 | 7 |
| 429 | Synthesis of SiC nano-powders from liquid carbon and various silica sources. Journal of the Ceramic Society of Japan, 2010, 118, 345-348. | 0.5 | 7 |
| 430 | Controlled organic/inorganic interface leading to the size-tunable luminescence from Si nanoparticles. Journal of the Ceramic Society of Japan, 2010, 118, 932-939. | 0.5 | 7 |
| 431 | Influence of La2O3 addition on thermophysical properties of ZrO2-4 mol %Y2O3 ceramics fabricated by spark plasma sintering. Journal of the Ceramic Society of Japan, 2011, 119, 929-932. | 0.5 | 7 |
| 432 | Phase relationships in the quasi-ternary LaO1.5â€“SiO2â€“MgO system at 1773 K. Science and Technology of Advanced Materials, 2012, 13, 045006. | 2.8 | 7 |

| # | Article | IF | Citations |
|---|---|---|---|
| 433 | Optical and adhesive properties of composite silica-impregnated Ca-Î±-SiAlON:Eu2+ phosphor films prepared on silica glass substrates. Journal of the European Ceramic Society, 2012, 32, 1365-1369. | 2.8 | 7 |
| 434 | Damage and wear resistance of Al<sub>2</sub>O<sub>3</sub>â€“CNT nanocomposites fabricated by spark plasma sintering. Journal of the Ceramic Society of Japan, 2013, 121, 867-872. | 0.5 | 7 |
| 435 | Fabrication of textured Î±-alumina in high magnetic field via gelcasting with the use of glucose derivative. Journal of the Ceramic Society of Japan, 2013, 121, 89-94. | 0.5 | 7 |
| 436 | Preparation of siloxane-containing vaterite doped with magnesium. Journal of the Ceramic Society of Japan, 2014, 122, 1010-1015. | 0.5 | 7 |
| 437 | Room-temperature synthesis of Bi<sub>4</sub>Ge<sub>3</sub>O<sub>12</sub>from aqueous solution. Japanese Journal of Applied Physics, 2015, 54, 06FJ03. | 0.8 | 7 |
| 438 | Triaxial Crystalline Orientation of MgTi<sub>2</sub>O<sub>5</sub> Achieved Using a Strong Magnetic Field and Geometric Effect. Journal of the American Ceramic Society, 2016, 99, 1852-1854. | 1.9 | 7 |
| 439 | Photoluminescence efficiency significantly enhanced by surface modification of SiO2 coating on Î²-sialon:Eu2+ phosphor particle. Journal of Alloys and Compounds, 2018, 741, 454-458. | 2.8 | 7 |
| 440 | Fabrication of Ceramics with Highly Controlled Microstructures by Advanced Fine Powder Processing. KONA Powder and Particle Journal, 2019, 36, 114-128. | 0.9 | 7 |
| 441 | Pulsed electrodischarged pressure sintering and flash sintering, a review. Materials Today: Proceedings, 2019, 16, 14-24. | 0.9 | 7 |
| 442 | Elastic isotropy originating from heterogeneous interlayer elastic deformation in a Ti3SiC2 MAX phase with a nanolayered crystal structure. Journal of the European Ceramic Society, 2021, 41, 2278-2289. | 2.8 | 7 |
| 443 | Mechanical and magnetic properties of the rapidly quenched Cu2MnAl. Journal of Materials Science, 1990, 25, 2549-2556. | 1.7 | 6 |
| 444 | Sorption and Desorption Characteristics of Water Vapour on YBa2Cu3O7-xPowders. Japanese Journal of Applied Physics, 1990, 29, L2022-L2025. | 0.8 | 6 |
| 445 | Sintering and Ionic Conductivity of CuO-Doped Tetragonal ZrO2 Prepared by Novel Colloidal Processing.. Journal of the Ceramic Society of Japan, 2001, 109, 1004-1009. | 1.3 | 6 |
| 446 | Electrical Conductivity of a 3Y-TZP/Alumina Laminate Composite Synthesized by Electrophoretic Deposition.. Journal of the Ceramic Society of Japan, 2002, 110, 959-962. | 1.3 | 6 |
| 447 | High-Strain-Rate Superplasticity in 3mol%-Y<sub>2</sub>O<sub>3</sub>-Stabilized Tetragonal ZrO<sub>2</sub> Dispersed with 30vol% MgAl<sub>2</sub>O<sub>4</sub> Spinel. Materials Science Forum, 2004, 447-448, 329-334. | 0.3 | 6 |
| 448 | Colloidal Processing and Ionic Conductivity of Fineâ€Grained Cupricâ€Oxideâ€Doped Tetragonal Zirconia. Journal of the American Ceramic Society, 2001, 84, 2129-2131. | 1.9 | 6 |
| 449 | Bone-like Layer Growth and Adhesion of Osteoblast-like Cells on Calcium-deficient Hydroxyapatite Synthesized at Different pH. Materials Transactions, 2004, 45, 1782-1787. | 0.4 | 6 |
| 450 | Preparation and proton conductivity of monodisperse nanocrystals of pyrochlore-type antimonic acid and its niobium-substituted materials. Electrochimica Acta, 2005, 50, 3205-3209. | 2.6 | 6 |

| # | Article | IF | Citations |
|---|---|---|---|
| 451 | Surface design of monolayer-template for reproducible microfabrication of metal oxide film. Thin Solid Films, 2006, 499, 293-298. | 0.8 | 6 |
| 452 | Texturing Ca-.ALPHA.-Sialon Via Strong Magnetic Field Alignment. Journal of the Ceramic Society of Japan, 2007, 115, 701-705. | 0.5 | 6 |
| 453 | Texturing of Si<sub>3</sub>N<sub>4</sub> Ceramics via Strong Magnetic Field Alignment. Key Engineering Materials, 2008, 368-372, 871-874. | 0.4 | 6 |
| 454 | Material properties controlling photocurrent on TiO2 aggregates with plane orientation for dye-sensitized solar cells. Journal of Nanoparticle Research, 2010, 12, 2621-2628. | 0.8 | 6 |
| 455 | Hybrid dandelion-like YH(O3PC6H5)2:Ln (Ln = Eu3+, Tb3+) particles: formation mechanism, thermal and photoluminescence properties. CrystEngComm, 2011, 13, 5226. | 1.3 | 6 |
| 456 | 3rd International Congress on Ceramics (ICC3). IOP Conference Series: Materials Science and Engineering, 2011, 18, 001001. | 0.3 | 6 |
| 457 | Alignment of Carbon Nanofibers in the Al<SUB>2</SUB>O<SUB>3</SUB> Matrix under a Magnetic Field. Materials Transactions, 2011, 52, 572-575. | 0.4 | 6 |
| 458 | Fabrication of Textured Ti2AlN Ceramic by Slip Casting in a Strong Magnetic Field and Spark Plasma Sintering. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2014, 61, 538-543. | 0.1 | 6 |
| 459 | Systematic study on densification of alumina fine powder during milliwave sintering at 28ÂGHz. Journal of Asian Ceramic Societies, 2014, 2, 215-222. | 1.0 | 6 |
| 460 | Nano ZrO<sub>2</sub>–TiN composites with high strength and conductivity. Journal of the Ceramic Society of Japan, 2015, 123, 86-89. | 0.5 | 6 |
| 461 | Research and Development of the Coprecipitation Process for Lanthanum Germanate Oxyapatite. Journal of the American Ceramic Society, 2015, 98, 66-70. | 1.9 | 6 |
| 462 | Microstructural analysis and thermoelectric properties of Sn-Al co-doped ZnO ceramics. AIP Conference Proceedings, 2016, , . | 0.3 | 6 |
| 463 | Magnetic field alignment in highly concentrated suspensions for gelcasting process. Ceramics International, 2016, 42, 294-301. | 2.3 | 6 |
| 464 | Preparation of carbamate-containing vaterite particles for strontium removal in wastewater treatment. Journal of Asian Ceramic Societies, 2017, 5, 364-369. | 1.0 | 6 |
| 465 | Influence of the porosity caused by incomplete sintering on the mechanical behaviour of lanthanum silicate oxyapatite. Ceramics International, 2018, 44, 14348-14354. | 2.3 | 6 |
| 466 | Gas Evolution and Densification during Sintering of Ultrafine Copper Powders. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1989, 53, 422-428. | 0.2 | 5 |
| 467 | Reduction and sintering of ultrafine copper powders. Journal of Materials Science Letters, 1989, 8, 273-276. | 0.5 | 5 |
| 468 | Effects of cold isostatic pressures on the sintering behaviour of iron and copper ultrafine powders. Journal of Materials Science Letters, 1991, 10, 426-428. | 0.5 | 5 |

| # | Article | IF | Citations |
|---|---|---|---|
| 469 | Zirconium-Hafnium Interdiffusion in Polycrystalline Fluorite-Cubic CeO2ZrO2HfO2 Solid Solution. Journal of the American Ceramic Society, 1993, 76, 1381-1383. | 1.9 | 5 |
| 470 | Microstructural examination in high-strain-rate superplastically deformed tetragonal ZrO2 dispersed with 30 vol% MgAl2O4 spinel. Journal of Materials Research, 2007, 22, 801-813. | 1.2 | 5 |
| 471 | New Processing of Textured Ceramics by Colloidal Processing Under High Magnetic Field. Key Engineering Materials, 2005, 280-283, 721-728. | 0.4 | 5 |
| 472 | Micro gas sensor assembly of tin oxide nano-particles by a capillary micro-molding process. Journal of the Ceramic Society of Japan, 2010, 118, 202-205. | 0.5 | 5 |
| 473 | Formation of Zirconia Films by the Aerosol Gas Deposition Method (By Jetting of Positive Charged) Tj ETQq1 1 0.784314 rgBT /Overlo<br>2011, 58, 463-472. | 0.1 | 5 |
| 474 | Tough Yttria-Stabilized Zirconia Ceramic by Low-Temperature Spark Plasma Sintering of Long-Term Stored Nanopowders. Journal of Nanoscience and Nanotechnology, 2011, 11, 7901-7909. | 0.9 | 5 |
| 475 | Electrical conductivity and X-ray diffraction analysis of oxyapatite-type lanthanum silicate and neodymium silicate solid solution. Solid State Ionics, 2012, 225, 443-447. | 1.3 | 5 |
| 476 | Spark Plasma Sintered Ni-YSZ/YSZ Bi-Layers for Solid Oxide Fuel Cell. Journal of Nanoscience and Nanotechnology, 2013, 13, 4150-4157. | 0.9 | 5 |
| 477 | Electrophoretic deposition of orientation-controlled zeolite L layer on porous ceramic substrate. Journal of the Ceramic Society of Japan, 2013, 121, 370-372. | 0.5 | 5 |
| 478 | Reductant-Free Colloidal Synthesis of Near-IR Emitting Germanium Nanocrystals: Role of Primary Amine. Journal of Nanoscience and Nanotechnology, 2014, 14, 2204-2210. | 0.9 | 5 |
| 479 | Significantly improved photoluminescence of the greenâ€emitting Î²â€sialon:Eu<sup>2+</sup> phosphor via surface coating of TiO<sub>2</sub>. Journal of the American Ceramic Society, 2019, 102, 294-302. | 1.9 | 5 |
| 480 | Effects of cold isostatic pressure on the sintering behaviour of nickel ultrafine powders. Journal of Alloys and Compounds, 1992, 190, 31-33. | 2.8 | 4 |
| 481 | Pressure Filtration of Al2O3 Small Powder.. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 1995, 42, 309-313. | 0.1 | 4 |
| 482 | Preparation of Polycrystalline Antimonic Acid Films by Electrophoretic Deposition. Journal of Sol-Gel Science and Technology, 2000, 19, 595-598. | 1.1 | 4 |
| 483 | Preparation and lithium insertion property of layered LixV2O5Â·nH2O. Journal of Power Sources, 2003, 119-121, 201-204. | 4.0 | 4 |
| 484 | Porous Al2O3/Al catalyst supports fabricated by an Al(OH)3/Al mixture and the effect of agglomerates. Journal of Materials Research, 2005, 20, 672-679. | 1.2 | 4 |
| 485 | High Strain-Rate Superplastic Flow in ZrO<sub>2</sub>-30vol% Spinel Composite. Materials Science Forum, 2005, 475-479, 2977-2980. | 0.3 | 4 |
| 486 | <I>In Situ</I> Microscopic Observations of Magnetic Field Effects on the Growth of Silver Dendrites. Materials Transactions, 2007, 48, 2888-2892. | 0.4 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 487 | Zirconia Nanoceramic via Redispersion of Highly Agglomerated Nanopowder and Spark Plasma Sintering. Journal of Nanoscience and Nanotechnology, 2010, 10, 6634-6640. | 0.9 | 4 |
| 488 | Photoelectrochemical evaluation of anatase TiO<sub>2</sub> polycrystalline aggregation layers with different crystalline orientations. Journal of Materials Research, 2010, 25, 63-68. | 1.2 | 4 |
| 489 | Texture development of surface-modified SiC prepared by EPD in a strong magnetic field. Journal of the Ceramic Society of Japan, 2011, 119, 667-671. | 0.5 | 4 |
| 490 | Preparation and Characterization of Grain-Oriented Barium Titanate Ceramics Using Electrophoresis Deposition Method under a High Magnetic Field. Key Engineering Materials, 2011, 485, 313-316. | 0.4 | 4 |
| 491 | High-temperature phase in zirconia film fabricated by aerosol gas deposition and its change upon subsequent heat treatment. Journal of the Ceramic Society of Japan, 2013, 121, 333-337. | 0.5 | 4 |
| 492 | Luminescence Behaviors of the New Upconversion Phosphors of Yb/Ho Co-Doped (Gd<sub>1-<i>x</i></sub>Lu<sub><i>x</i></sub>)<sub>3</sub>Al<sub>5< (x=0.1-0.5) Garnet Solid Solutions. Key Engineering Materials, 0, 602-603, 1034-1038. | 4 | |
| 493 | Magnesium ion distribution and defect concentrations of MgO-doped lanthanum silicate oxyapatite. Solid State Ionics, 2014, 258, 24-29. | 1.3 | 4 |
| 494 | Dispersion and structural evolution of multi-walled carbon nanotubes in ZrB2 matrix. Ceramics International, 2017, 43, 10533-10539. | 2.3 | 4 |
| 495 | Interphase coordination design in carbamate-siloxane/vaterite composite microparticles towards tuning ion-releasing properties. Advanced Powder Technology, 2017, 28, 1349-1355. | 2.0 | 4 |
| 496 | Heterocoagulation and SPS sintering of sulfonitric-treated CNT and 8YZ nanopowders. Journal of Asian Ceramic Societies, 2019, 7, 238-246. | 1.0 | 4 |
| 497 | Fabrication of Textured BaTiO<sub>3</sub> Ceramics by Electrophoretic Deposition in A High Magnetic Field using Single-domain Particles. Transactions of the Materials Research Society of Japan, 2013, 38, 41-44. | 0.2 | 4 |
| 498 | Green synthesis, structure feature and energy transfer of yellowâ€emitting (Y,Gd)<sub>2</sub>O<sub>2</sub>SO<sub>4</sub>:Dy phosphors. Luminescence, 2022, 37, 199-207. | 1.5 | 4 |
| 499 | Permanent deformation of (Co, Ni)Zr intermetallic compounds through phase transformation. Journal of Materials Science, 1989, 24, 2891-2897. | 1.7 | 3 |
| 500 | Characterization of the Surface Oxide Layer of Iron Ultrafine Particles.. Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal, 1993, 1993, 92-97. | 0.1 | 3 |
| 501 | Superplastic Tensile Ductility in a Zirconia-Dispersed Alumina Produced by Colloidal Processing. Materials Science Forum, 1999, 304-306, 489-494. | 0.3 | 3 |
| 502 | High Temperature Deformation of a Yttria-Stabilized Tetragonal Zirconia. Materials Science Forum, 2001, 357-359, 187-192. | 0.3 | 3 |
| 503 | Fabrication of Textured Alumina through Slip Casting in a High Magnetic Field and Heating. Key Engineering Materials, 2001, 206-213, 349-352. | 0.4 | 3 |
| 504 | Fabrication of Tailored Alumina-Based Ceramics Through Colloidal Processing. Key Engineering Materials, 2002, 224-226, 619-622. | 0.4 | 3 |

| # | Article | IF | Citations |
|---|---|---|---|
| 505 | Assembly of hydrothermally synthesized tin oxide nanocrystals. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2005, 23, 731-736. | 0.9 | 3 |
| 506 | Multiple Nano-Blast Synthesis of PT/8Y-ZP Composite Nanopowders. Journal of Nanoscience and Nanotechnology, 2006, 6, 1625-1631. | 0.9 | 3 |
| 507 | Aqueous Processing of Textured Silicon Nitride Ceramics by Slip Casting in a Strong Magnetic Field. Materials Science Forum, 2007, 534-536, 1009-1012. | 0.3 | 3 |
| 508 | Fabrication and Some Properties of Textured Ceramics by Colloidal Processing in High Magnetic Field. Key Engineering Materials, 2007, 352, 101-106. | 0.4 | 3 |
| 509 | Synthesis of Titania Thin Films by Cathodic Electrolytic Deposition. Journal of the Ceramic Society of Japan, 2007, 115, 818-820. | 0.5 | 3 |
| 510 | Fabrication of Ceria- and Lanthanium Gallate-based Solid Electrolyte Layers on Porous NiO-YSZ by Sequential Electrophoretic Deposition Process. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2012, 59, 626-630. | 0.1 | 3 |
| 511 | Spark plasma sintering of damage tolerant and machinable YAM ceramics. Journal of Advanced Ceramics, 2013, 2, 193-200. | 8.9 | 3 |
| 512 | Low-Tepmerature Synthesis Process of Lanthanum Germanate Oxyapatite by Citrate Combustion Method. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2014, 61, 582-586. | 0.1 | 3 |
| 513 | Metal-Ceramic/Ceramic Nanostructured Layered Composites for Solid Oxide Fuel Cells by Spark Plasma Sintering. Journal of Nanoscience and Nanotechnology, 2014, 14, 4218-4223. | 0.9 | 3 |
| 514 | Influence of the crystal structure on the physical properties of monoclinic ZrO 2 nanocrystals. Nano Structures Nano Objects, 2015, 1, 1-6. | 1.9 | 3 |
| 515 | Stabilization of the high-temperature phase and total conductivity of yttrium-doped lanthanum germanate oxyapatite. Journal of the Ceramic Society of Japan, 2018, 126, 91-98. | 0.5 | 3 |
| 516 | Comparative Investigation on Upconversion Luminescence Properties of Lu 2 O 3 :Er/Yb and Lu 2 O 2 S:Er/Yb Phosphors. Physica Status Solidi (A) Applications and Materials Science, 2021, 218, 2100014. | 0.8 | 3 |
| 517 | Production of crystal-oriented lanthanum silicate oxyapatite ceramics with anisotropic electrical conductivity and thermal expansion. Open Ceramics, 2021, 6, 100100. | 1.0 | 3 |
| 518 | Fabrication of Textured Porous Ti<sub>3</sub>SiC<sub>2</sub> by Slip Casting under High Magnetic Field and Microstructural Evolution through High Temperature Deformation. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2021, 85, 256-263. | 0.2 | 3 |
| 519 | 'Beautiful' unconventional synthesis and processing technologies of superconductors and some other materials. Science and Technology of Advanced Materials, 2011, 12, 013001. | 2.8 | 3 |
| 520 | Fabrication of Textured Porous Ti<sub>3</sub>SiC<sub>2</sub> by Slip Casting under High Magnetic Field and Microstructural Evolution through High Temperature Deformation. Materials Transactions, 2022, 63, 133-140. | 0.4 | 3 |
| 521 | Gas adsorption and desorption characteristics of oxide superconducting powders.. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 1990, 37, 761-764. | 0.1 | 2 |
| 522 | Control of Texture in Al<sub>2</sub>O<sub>3</sub> Composites by Slip Casting in a Strong Magnetic Field Followed by Heating. Key Engineering Materials, 2004, 264-268, 245-248. | 0.4 | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 523 | Direct Shaping of Alumina Ceramics by Electrophoretic Deposition Using Conductive Polymer-Coated Ceramic Substrates. Advanced Materials Research, 2007, 29-30, 227-230. | 0.3 | 2 |
| 524 | Preparation and Utilization of Fine Expanded Perlite. Key Engineering Materials, 0, 280-283, 701-706. | 0.4 | 2 |
| 525 | Nano Ceramics Center, National Institute for Materials Science. Science and Technology of Advanced Materials, 2007, 8, 571-577. | 2.8 | 2 |
| 526 | Electrical conductivity of Gd-doped ceria with nano-sized grain. Transactions of the Materials Research Society of Japan, 2009, 34, 555-559. | 0.2 | 2 |
| 527 | Formation of Crystalline-Oriented Titania Thin Films on ITO Glass Electrodes by EPD in a Strong Magnetic Field. Key Engineering Materials, 2009, 412, 143-148. | 0.4 | 2 |
| 528 | Electrophretic Deposition of LDC/LSGM/LDC Tri-layers on NiO-YSZ for Anode-supported SOFC. Transactions of the Materials Research Society of Japan, 2010, 35, 723-725. | 0.2 | 2 |
| 529 | Fabrication of Highly-Densified Hydroxyapatite Ceramic with Boron Oxide Addition and Its Superplastic Deformation. IOP Conference Series: Materials Science and Engineering, 2011, 18, 022020. | 0.3 | 2 |
| 530 | Application of new low toxic monomers in gelcasting process of alumina powder. IOP Conference Series: Materials Science and Engineering, 2011, 18, 072009. | 0.3 | 2 |
| 531 | Preparation and Dielectric Properties of Dense Barium Titanate Nanoparticle Accumulations by Electrophoresis Deposition Method. Key Engineering Materials, 2011, 485, 35-38. | 0.4 | 2 |
| 532 | Textured Ti<sub>3</sub>SiC<sub>2</sub> by EPD in a Strong Magnetic Field. Key Engineering Materials, 0, 507, 15-19. | 0.4 | 2 |
| 533 | Development of High-Strain-Rate Superplastic Oxide Ceramics Based on Flow Mechanism. Materials Science Forum, 2012, 735, 9-14. | 0.3 | 2 |
| 534 | Preparation of Barium Titanate Grain-Oriented Ceramics by Electrophoresis Deposition Method under High Magnetic Field Using Single-Domain Nanoparticles. Key Engineering Materials, 2013, 582, 27-31. | 0.4 | 2 |
| 535 | Crystalline-Oriented Beta-Sialon:Eu2+Deposits Fabricated by Electrophoretic Deposition (EPD) within Strong Magnetic Field. ECS Journal of Solid State Science and Technology, 2014, 3, R195-R199. | 0.9 | 2 |
| 536 | Fabrication of Textured Ti3SiC2 Ceramics by Slip Casting in a Magnetic Field and Pulsed Electric Current Sintering. Journal of the Society of Powder Technology, Japan, 2014, 51, 163-168. | 0.0 | 2 |
| 537 | Effects of high magnetic fields on thermal convection of conductive aqueous solution. Japanese Journal of Applied Physics, 2015, 54, 077301. | 0.8 | 2 |
| 538 | Synthesis of crystallographically oriented olivine aggregates using colloidal processing in a strong magnetic field. Physics and Chemistry of Minerals, 2016, 43, 689-706. | 0.3 | 2 |
| 539 | Fabrication and Mechanical Properties of Textured Ti<sub>3</sub>SiC<sub>2</sub> MAX Phase Systems. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2016, 63, 970-975. | 0.1 | 2 |
| 540 | Dispersion and Reinforcing Mechanism of Carbon Nanotubes in a Ceramic Material. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2016, 63, 955-964. | 0.1 | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 541 | Sedimentation classification treatment effect of starting powders in slip casting on magneto-orientation of mordenite zeolite. Transactions of the Materials Research Society of Japan, 2010, 35, 701-703. | 0.2 | 2 |
| 542 | Gas evolution characteristics of palladium ultrafine powders.. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 1990, 37, 508-512. | 0.1 | 1 |
| 543 | Electro-discharge Sintering of (Fe,Co)-B and Ni-B Amorphous Ultrafine Powders Prepared by Chemical Reduction.. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 1995, 42, 323-329. | 0.1 | 1 |
| 544 | Synthesis of LiSbO3 from Metal Alkoxides.. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 1995, 42, 603-607. | 0.1 | 1 |
| 545 | Preparation, Electrical Properties, and Water Adsorption Behavior of (1-x)Sb2O5Â·xM2O3Â·nH2O (M = Al,) Tj ETQq1 1 0.784314 rgBT | 0.1 | 1 |
| 546 | Microstructure and Superplasticity in Various Zirconia-Dispersed Aluminas.. Journal of the Ceramic Society of Japan, 2002, 110, 927-930. | 1.3 | 1 |
| 547 | High-Toughness Tetragonal Zirconia and Zirconia/Alumina Nano-Ceramics. Key Engineering Materials, 2004, 264-268, 2347-2350. | 0.4 | 1 |
| 548 | Fabrication of Grain-Aligned Bulks and Thick Films of Misfit Layered Cobalt Oxides by a Magneto-Scientific Process. Materials Research Society Symposia Proceedings, 2005, 886, 1. | 0.1 | 1 |
| 549 | Microstructural Design for Attaining High-Strain-Rate Superplasticity in Oxide Materials. Advances in Science and Technology, 2006, 45, 923. | 0.2 | 1 |
| 550 | High-Toughness Tetragonal Zirconia/Alumina Nano-Ceramics. Key Engineering Materials, 2006, 317-318, 615-618. | 0.4 | 1 |
| 551 | Preparation and Properties of Al<sub>2</sub>O<sub>3</sub>-Mullite-SiC Nano-Composite by Slip Casting in a High Magnetic Field and Reaction Sintering. Key Engineering Materials, 2007, 336-338, 1133-1136. | 0.4 | 1 |
| 552 | Synthesis and Properties of Multimetal Oxide Nanopowders via Nano-Explosive Technique. Materials Science Forum, 2007, 534-536, 125-128. | 0.3 | 1 |
| 553 | Focus on materials analysis and processing in magnetic fields. Science and Technology of Advanced Materials, 2009, 10, 010301. | 2.8 | 1 |
| 554 | Control of Residual Stress in Multilayered Alumina Composites Prepared Using EPD in a Strong Magnetic Field. Key Engineering Materials, 0, 412, 233-236. | 0.4 | 1 |
| 555 | Fabrication of Textured Hematite via Topotactic Transformation of Textured Goethite. Applied Physics Express, 2009, 2, 101601. | 1.1 | 1 |
| 556 | Synthesis, Microstructure and Mechanical Properties of ZrB<sub>2</sub> Ceramic Prepared by Mechanical Alloying and Spark Plasma Sintering. Key Engineering Materials, 2010, 434-435, 165-168. | 0.4 | 1 |
| 557 | Fabrication of dense Î²-calcium orthophosphate with submicrometer-sized grains and its high-temperature superplastic deformation. Journal of Materials Science, 2011, 46, 1956-1962. | 1.7 | 1 |
| 558 | Orientation Control of Hematite via Transformation of Textured Goethite Prepared by EPD in a Strong Magnetic Field. Key Engineering Materials, 2012, 507, 227-231. | 0.4 | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 559 | Structural Features and Color Tunable Photoluminescence of the Binary and Ternary Layered Rare-Earth Hydroxides of (Y,Ln)<sub>2</sub>(OH)<sub>5</sub>NO<sub>3</sub>Â·<i>n</i>H<sub>2</sub> (Ln=Tb, Eu). Key Engineering Materials, 0, 544, 252-258. | 0.4 | 1 |
| 560 | Hydrothermal transformation of magnetically orientation-controlled seed layer into orientation-retained dense, continuous film in clear reaction solution. Journal of the Ceramic Society of Japan, 2013, 121, 550-554. | 0.5 | 1 |
| 561 | In Situ Observation of Diamagnetic Fluid Flow in High Magnetic Fields. Key Engineering Materials, 2014, 616, 188-193. | 0.4 | 1 |
| 562 | Fabrication of Dense Nanostructured Bulk Ceramics by Means of Spark-Plasma-Sintering (SPS) Processing. Materials Science Forum, 2016, 838-839, 225-230. | 0.3 | 1 |
| 563 | Controlled Surface for Enhanced Luminescence Quantum Yields of Silicon Nanocrystals. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2019, 66, 145-157. | 0.1 | 1 |
| 564 | Control of the Texture in Feeble Magnetic Ceramics Using Colloidal Processing in a Strong Magnetic Field. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2006, 53, 479-487. | 0.1 | 1 |
| 565 | Fabrication of Textured Ceramics Using Mn and Nb-doped Hexagonal BaTiO<sub>3</sub> by an Electrophoretic Deposition in a High Magnetic Field. Transactions of the Materials Research Society of Japan, 2014, 39, 199-202. | 0.2 | 1 |
| 566 | Effects of Pretreatment of Source Powder Mixture on Aerosol Gas Deposition Film Synthesis and Luminescence. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2017, 64, 558-562. | 0.1 | 1 |
| 567 | Orientation Dependence of Plastic Deformation Behavior and Fracture Energy Absorption Mechanism around Vickers Indentation of Textured Ti<sub>3</sub>SiC<sub>2</sub> Sintered Body. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2020, 67, 607-614. | 0.1 | 1 |
| 568 | Synthesis and Characterization of the Mixed and the Composite Ni-TiN Utrafine Particles. , 1989, , 203-212. | | 0 |
| 569 | Improvement of the hard magnetic properties in Mn-Al-X (X = C, Ti) systems by twin-roll quenching. Journal of Materials Science Letters, 1989, 8, 1123-1126. | 0.5 | 0 |
| 570 | Preparation and Some Electrical Properties of Yttrium-Doped Antimonic Acids.. ChemInform, 2003, 34, no. | 0.1 | 0 |
| 571 | Role of Deformable Fine Spinel Particles in High-Strain-Rate Superplastic Flow of Tetragonal ZrO2. Materials Research Society Symposia Proceedings, 2004, 821, 288. | 0.1 | 0 |
| 572 | High-Strain Rate Superplastic Zirconia Systems. Key Engineering Materials, 2004, 264-268, 285-288. | 0.4 | 0 |
| 573 | CONTROL OF PARTICLE ORIENTATION OF HYDROXYAPATITE UNDER A HIGH MAGNETIC FIELD. Phosphorus Research Bulletin, 2005, 19, 256-261. | 0.1 | 0 |
| 574 | Fracture Toughness of Yttria-Stabilized Cubic Zirconia (8Y-CSZ) Doped with Pure Silica. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2005, 69, 928-932. | 0.2 | 0 |
| 575 | ã,»ãƒ©ãƒŸãƒƒã‚¯æ–™ã«ãŠã‘ã‚‹é«˜é€Ÿè¶…å¡‘æ€§. Materia Japan, 2006, 45, 640-643. | 0.1 | 0 |
| 576 | Mechanical Properties of Textured Alumina Prepared by Colloidal Processing in a Strong Magnetic Field. Materials Research Society Symposia Proceedings, 2006, 977, 1. | 0.1 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 577 | Thermoelectric Properties and Magnetic Anisotropies of Magnetically Grain-Oriented Sr- or Bi-doped Ca3Co4O9 Thick Films. Materials Research Society Symposia Proceedings, 2007, 1044, 1. | 0.1 | 0 |
| 578 | Improvement of Thermoelectric Properties of p- and n-types Oxide Thick Films Fabricated by Electrophoretic Deposition. Materials Research Society Symposia Proceedings, 2007, 1044, 1. | 0.1 | 0 |
| 579 | Hydrogen Storage Properties of Nb-Zr-Fe Alloys Disintegrated by Hydrogen Gas. Materials Science Forum, 2007, 534-536, 73-76. | 0.3 | 0 |
| 580 | Preparation and Some Properties of Ni-TiN and Ni-TiC Nanocomposite Particles by DC Arc-Plasma. Key Engineering Materials, 2007, 336-338, 2082-2085. | 0.4 | 0 |
| 581 | Fabrication of Highly Microstructure Controlled Ceramics by Novel Colloidal Processing. Key Engineering Materials, 0, 336-338, 2372-2377. | 0.4 | 0 |
| 582 | CONTROL OF NANOSTRUCTURE OF MATERIALS. , 2008, , 177-265. | | 0 |
| 583 | Textured PbTiO<sub>3</sub> Based Ceramics Fabricated by Slip Casting in a High Magnetic Field. Key Engineering Materials, 0, 421-422, 395-398. | 0.4 | 0 |
| 584 | Fabrication of Multi-Layered Thermoelectric Thick Films and their Thermoelectric Performance. Key Engineering Materials, 2009, 412, 291-296. | 0.4 | 0 |
| 585 | Elucidation of Crystal-Chemical Determination Factor of Magnetic Anisotropy in HTSC. IEEE Transactions on Applied Superconductivity, 2009, 19, 2965-2969. | 1.1 | 0 |
| 586 | Control of Texture in Diamagnetic Ceramics by Using a Strong Magnetic Field. Materia Japan, 2009, 48, 321-326. | 0.1 | 0 |
| 587 | 3rd International Workshop on Materials Analysis and Processing in Magnetic Fields (MAP3). Journal of Physics: Conference Series, 2009, 156, 011001. | 0.3 | 0 |
| 588 | Fabrication of Textured Î²-Si<sub>3</sub>N<sub>4</sub> and Î²-Sialon by Slip Casting in a Strong Magnetic Field and Reaction-Sintering. Key Engineering Materials, 0, 434-435, 5-8. | 0.4 | 0 |
| 589 | Microstructure Control of Barium Titanate - Potassium Niobate Solid Solution System Ceramics by MPB Engineering and Their Piezoelectric Properties. IOP Conference Series: Materials Science and Engineering, 2011, 18, 092058. | 0.3 | 0 |
| 590 | Tailoring Plate-Like Grained ZrB<sub>2</sub> Ceramic via a Strong Magnetic Field Alignment Method Followed by Spark Plasma Sintering. Key Engineering Materials, 2012, 512-515, 702-705. | 0.4 | 0 |
| 591 | Controlled Thermal Plasma Processing ofÂCeramic Nanopowders. , 2013, , 979-989. | | 0 |
| 592 | Preparation of Barium Titanate Nanoperticles with Necking Structure/Polymer Complex and their Dielectric Properties. Key Engineering Materials, 0, 582, 23-26. | 0.4 | 0 |
| 593 | Preparation of Ceramics/Polymer Film Capacitor Using Barium Titanate Nanoparticles with High Dielectric Property and their Dielectric Property. Key Engineering Materials, 0, 566, 54-58. | 0.4 | 0 |
| 594 | Particle processing technology. Science and Technology of Advanced Materials, 2014, 15, 010201. | 2.8 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 595 | Influence of Loading Condition on Fabrication of Transparent MgAl<sub>2</sub>O<sub>4</sub> Spinel Ceramics by Spark-Plasma-Sintering (SPS) Technique. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2014, 61, 565-574. | 0.1 | 0 |
| 596 | Effects of High Magnetic Fields on Thermal Convection Using Feeble Magnetic Conductive Aqueous Solutions. Bulletin of the Chemical Society of Japan, 2015, 88, 1404-1409. | 2.0 | 0 |
| 597 | Textured Beta-Sialon:Eu<sup>2+</sup> Phosphor Deposits Fabricated by Electrophoretic Deposition (EPD) Process within a Strong Magnetic Field: Preparation Process and Photoluminescence (PL) Properties Depending on Orientation. Key Engineering Materials, 0, 654, 268-273. | 0.4 | 0 |
| 598 | Fabrication of c-Axis-Oriented Zeolite L Seed Layer on Porous Zirconia Substrate by Electrophoretic Deposition in Strong Magnetic Field. Key Engineering Materials, 0, 654, 274-279. | 0.4 | 0 |
| 599 | Development of powder processing under external fields. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2016, 63, 793. | 0.1 | 0 |
| 600 | Preparation of Gallium Stannate Dense Sintered Body Using SPS Method. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2016, 63, 986-989. | 0.1 | 0 |
| 601 | Fabrication and Mechanical Properties of Textured Ti<sub>3</sub>SiC<sub>2</sub> Systems Using Commercial Powders. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2017, 64, 552-557. | 0.1 | 0 |
| 602 | Possibility of Low-Temperature High-Strain-Rate Superplasticity in Fine-Grained Ceramic Materials. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2017, 64, 515-522. | 0.1 | 0 |
| 603 | Preparation of Double-shelled Fluorescent Silicon Nanocrystals and Fabrication of Its Thin Layer by Electrophoretic Deposition Process. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2018, 65, 108-113. | 0.1 | 0 |
| 604 | Fabrication of Ceramics With Highly Controlled Microstructures by Advanced Powder Processing. , 2018, , 801-807. | | 0 |
| 605 | Preparation of Double-Shelled Fluorescent Silicon Nanocrystals and Fabrication of Its Thin Layer by Electrophoretic Deposition Process. Materials Transactions, 2019, 60, 49-54. | 0.4 | 0 |
| 606 | Effect of MgAl2O4 Spinel Dispersion on High-Strain-Rate Superplasticity in Tetragonal ZrO2 Polycrystal. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2005, 69, 356-361. | 0.2 | 0 |
| 607 | FABRICATION OF FLUORAPATITE CERAMIC MATERIAL WITH SUBMICROME -45- TER-SIZED GRAINS AND ITS HIGH-TEMPERATURE PLASTIC DEFORMATION. Phosphorus Research Bulletin, 2009, 23, 45-51. | 0.1 | 0 |
| 608 | Solution Synthesis of Luminescent Silicon Nanoparticles. Journal of the Japan Society of Colour Material, 2009, 82, 516-521. | 0.0 | 0 |
| 609 | EFFECT OF β-CALCIUM ORTHOPHOSPHATE ADDITION ON HIGH- TEMPERATURE PLASTIC DEFORMATION OF HYDROXYAPATITE WITH SUBMICROMETER-SIZED GRAINS. Phosphorus Research Bulletin, 2012, 27, 11-17. | 0.1 | 0 |
| 610 | TEM Characterization of Nanocomposite Materials. , 2014, , 333-373. | | 0 |
| 611 | Sintering of Copper Ultrafine Powders. , 1989, , 193-202. | | 0 |
| 612 | Sinterable Powder Fabrication and the Oxygen-ion Conductivity of Lanthanum Silicate Oxyapatite. Journal of the Society of Powder Technology, Japan, 2015, 52, 648-657. | 0.0 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 613 | Dense lanthanum silicate oxyapatite ceramics obtained by uniaxial pressing and slip casting. Science of Sintering, 2018, 50, 433-443. | 0.5 | 0 |
| 614 | High Performance of Ceramics and Manufacturing Process Innovation. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2018, 65, 457. | 0.1 | 0 |
| 615 | Development of Laser Optical Elements by Spark Plasma Sintering Technique. The Review of Laser Engineering, 2019, 47, 448. | 0.0 | 0 |
| 616 | New Development of Powder Processing under Eternal Fields. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2020, 67, 47. | 0.1 | 0 |
| 617 | Fabrication Alumina Film with High Breakdown Field Strength by New Aerosol Gas Deposition Technology. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2020, 67, 220-223. | 0.1 | 0 |