

Hidehiro Yoshida

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

184
papers

3,902
citations

36
h-index

56
g-index

186
ext. papers

4,384
ext. citations

3.4
avg, IF

5.5
L-index

| # | Paper | IF | Citations |
|-----|---|-----|-----------|
| 184 | Low-temperature degradation in yttria-stabilized tetragonal zirconia polycrystal: effect of Y ₃₊ distribution in grain interiors. <i>Acta Materialia</i> , 2022 , 117659 | 8.4 | 0 |
| 183 | Anelasticity induced by AC flash processing of cubic zirconia. <i>Acta Materialia</i> , 2022 , 227, 117704 | 8.4 | 3 |
| 182 | Densification of Y ₂ O ₃ by flash sintering under an AC electric field. <i>Journal of the European Ceramic Society</i> , 2021 , | 6 | 4 |
| 181 | Ferroelastic and plastic behaviors in pseudo-single crystal micropillars of nontransformable tetragonal zirconia. <i>Acta Materialia</i> , 2021 , 203, 116471 | 8.4 | 2 |
| 180 | Electric current dependence of plastic flow behavior with large tensile elongation in tetragonal zirconia polycrystal under a DC field. <i>Scripta Materialia</i> , 2021 , 194, 113659 | 5.6 | 10 |
| 179 | Strong Field-induced Nanodynamics in Ceramics. <i>Materia Japan</i> , 2021 , 60, 19-24 | 0.1 | 1 |
| 178 | Surface segregation of 3 mol % yttria-doped tetragonal zirconia particle studied by atomic-resolution scanning transmission electron microscopy-energy-dispersive X-ray spectroscopy. <i>Journal of the Ceramic Society of Japan</i> , 2021 , 129, 561-565 | 1 | 1 |
| 177 | Doping effect on the flash sintering of Y ₂ O ₃ : Promotion of densification and optical translucency. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 6053-6060 | 6 | 4 |
| 176 | Blue photoluminescence at room temperature from Y ₂ O ₃ -doped ZrO ₂ polycrystals sintered by flash sintering. <i>Applied Physics Express</i> , 2020 , 13, 035506 | 2.4 | 1 |
| 175 | Suppression of nitridation of yttria-doped zirconia during flash sintering. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 3002-3007 | 3.8 | 8 |
| 174 | Electric Field/Current-Assisted Sintering of Optical Ceramics 2020 , 601-638 | | |
| 173 | Science of Flash-sintering and Innovation to Sintering Technology. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2020 , 67, 593-600 | 0.2 | 1 |
| 172 | Fundamentals of Sintering: Theory and PracticeIV. Development of Electric Current-assisted Sintering Techniques. <i>Materia Japan</i> , 2020 , 59, 37-43 | 0.1 | |
| 171 | Blue photo luminescence from 3 mol%Y ₂ O ₃ -doped ZrO ₂ polycrystals sintered by flash sintering under an alternating current electric field. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 2072-2076 | 6 | 13 |
| 170 | Spark plasma sintered bioceramics [From transparent hydroxyapatite to graphene nanocomposites: a review. <i>Advances in Applied Ceramics</i> , 2020 , 119, 57-74 | 2.3 | 7 |
| 169 | Photoluminescence properties of undoped and Si ⁴⁺ -doped polycrystalline Y ₂ O ₃ phosphors prepared by flash-sintering. <i>Applied Physics Express</i> , 2019 , 12, 075504 | 2.4 | 12 |
| 168 | Technique to control specimen electric current during a flash state with alternating current electric fields. <i>Journal of the Ceramic Society of Japan</i> , 2019 , 127, 849-851 | 1 | 5 |

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| 167 | Fabrication of Transparent Polycrystalline Ceramics by Utilizing External Field Effects. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2019 , 66, 158-167 | 0.2 | |
| 166 | Electric Field/Current-Assisted Sintering of Optical Ceramics 2019 , 1-38 | | |
| 165 | Fundamentals of Sintering: Theory and Practice I Various Sintering Methods. <i>Materia Japan</i> , 2019 , 58, 570-575 | 0.1 | |
| 164 | Fundamentals of Sintering: -Theory and Practice - II. Densification Kinetics. <i>Materia Japan</i> , 2019 , 58, 677-683 | | |
| 163 | Theory and Practice -III. Densification Behavior of Multi-particle Systems. <i>Materia Japan</i> , 2019 , 58, 782-788 | | |
| 162 | Theoretical analysis of experimental densification kinetics in final sintering stage of nano-sized zirconia. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 1359-1365 | 6 | 5 |
| 161 | Intergranular amorphous films formed by DC electric field in pure zirconia. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 3282-3287 | 3.8 | 15 |
| 160 | Inversion domain network stabilization and spinel phase suppression in ZnO. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 2616-2626 | 3.8 | 7 |
| 159 | Distribution of carbon contamination in oxide ceramics occurring during spark-plasma-sintering (SPS) processing: II - Effect of SPS and loading temperatures. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 2596-2604 | 6 | 35 |
| 158 | Production of transparent yttrium oxide ceramics by the combination of low temperature spark plasma sintering and zinc cation-doping. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 1972-1980 | 6 | 11 |
| 157 | Distribution of carbon contamination in MgAl ₂ O ₄ spinel occurring during spark-plasma-sintering (SPS) processing: I Effect of heating rate and post-annealing. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 2588-2595 | 6 | 28 |
| 156 | Transparent ultrafine Yb ³⁺ :Y ₂ O ₃ laser ceramics fabricated by spark plasma sintering. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 694-702 | 3.8 | 24 |
| 155 | Review: microstructure-development mechanism during sintering in polycrystalline zirconia. <i>International Materials Reviews</i> , 2018 , 63, 375-406 | 16.1 | 29 |
| 154 | Low temperature and high strain rate superplastic flow in structural ceramics induced by strong electric-field. <i>Scripta Materialia</i> , 2018 , 146, 173-177 | 5.6 | 37 |
| 153 | Densification of Ceramics by Flash Sintering~Elementary Processes of Mass Transport under Electric Fields~. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2018 , 65, 646-653 | 0.2 | 5 |
| 152 | Revealing tetragonal-to-monoclinic phase transformation in Y-TZP at an initial stage of low temperature degradation using grazing incident-angle X-ray diffraction measurement. <i>Journal of the Ceramic Society of Japan</i> , 2018 , 126, 728-731 | 1 | |
| 151 | Flash Sintering of Oxide Ceramics and the Future Developments. <i>Materia Japan</i> , 2018 , 57, 373-380 | 0.1 | 4 |
| 150 | Electric current-controlled synthesis of BaTiO ₃ . <i>Journal of the American Ceramic Society</i> , 2017 , 100, 3843-3850 | 3.8 | 21 |

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| 149 | Inversion domain boundaries in Mn and Al dual-doped ZnO: Atomic structure and electronic properties. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 4252-4262 | 3.8 | 14 |
| 148 | Consolidation of undoped, monoclinic zirconia polycrystals by flash sintering. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 3851-3857 | 3.8 | 17 |
| 147 | Transparent polycrystalline cubic silicon nitride. <i>Scientific Reports</i> , 2017 , 7, 44755 | 4.9 | 36 |
| 146 | Possibility of Low-Temperature High-Strain-Rate Superplasticity in Fine-Grained Ceramic Materials. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2017 , 64, 515-522 | 0.2 | |
| 145 | Spark Plasma Sintering of Highly Transparent Hydroxyapatite Ceramics. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2017 , 64, 547-551 | 0.2 | 8 |
| 144 | Fundamentals and Future Prospects of Flash Sintering of Advanced Ceramics. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2017 , 64, 523-531 | 0.2 | 5 |
| 143 | Flash-sintering of magnesium aluminate spinel (MgAl ₂ O ₄) ceramics. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 554-562 | 3.8 | 49 |
| 142 | Evaluation of densification and grain-growth behavior during isothermal sintering of zirconia. <i>Journal of the Ceramic Society of Japan</i> , 2017 , 125, 357-363 | 1 | 3 |
| 141 | Sintering characteristics and thermoelectric properties of Mn–Al co-doped ZnO ceramics. <i>Journal of the Ceramic Society of Japan</i> , 2016 , 124, 515-522 | 1 | 15 |
| 140 | Low-temperature spark plasma sintering of alumina by using SiC molding set. <i>Journal of the Ceramic Society of Japan</i> , 2016 , 124, 1141-1145 | 1 | 9 |
| 139 | Low temperature spark plasma sintering of tin oxide doped with tantalum oxide. <i>Journal of the Ceramic Society of Japan</i> , 2016 , 124, 932-937 | 1 | 5 |
| 138 | Fabrication of Dense Nanostructured Bulk Ceramics by Means of Spark-Plasma-Sintering (SPS) Processing. <i>Materials Science Forum</i> , 2016 , 838-839, 225-230 | 0.4 | 1 |
| 137 | Improvement of Superplasticity in Fine-Grained Oxide Ceramics Based on the Concept of Grain Boundary Plasticity. <i>Materials Science Forum</i> , 2016 , 838-839, 34-40 | 0.4 | |
| 136 | Reduction in sintering temperature for flash-sintering of yttria by nickel cation-doping. <i>Acta Materialia</i> , 2016 , 106, 344-352 | 8.4 | 50 |
| 135 | Densification kinetics during isothermal sintering of 8YSZ. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 1269-1275 | 6 | 15 |
| 134 | Influence of pre- and post-annealing on discoloration of MgAl ₂ O ₄ spinel fabricated by spark-plasma-sintering (SPS). <i>Journal of the European Ceramic Society</i> , 2016 , 36, 2961-2968 | 6 | 38 |
| 133 | Low-temperature degradation in yttria-stabilized tetragonal zirconia polycrystal doped with small amounts of alumina: Effect of grain-boundary energy. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 155-162 | 6 | 11 |
| 132 | Formation of grain boundary second phase in BaTiO ₃ polycrystal under a high DC electric field at elevated temperatures. <i>Journal of the Ceramic Society of Japan</i> , 2016 , 124, 388-392 | 1 | 32 |

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|-----|---|-----|-----|
| 131 | Microstructural analysis and thermoelectric properties of Sn-Al co-doped ZnO ceramics 2016 , | | 4 |
| 130 | Synthesis of zirconium oxynitride in air under DC electric fields. <i>Applied Physics Letters</i> , 2016 , 109, 083104 | 4.4 | 39 |
| 129 | Spectroscopic study of the discoloration of transparent MgAl ₂ O ₄ spinel fabricated by spark-plasma-sintering (SPS) processing. <i>Acta Materialia</i> , 2015 , 84, 9-19 | 8.4 | 64 |
| 128 | Enhancement of sintering rates in BaTiO ₃ by controlling of DC electric current. <i>Journal of the Ceramic Society of Japan</i> , 2015 , 123, 465-468 | 1 | 20 |
| 127 | Nano ZrO ₂ –TiN composites with high strength and conductivity. <i>Journal of the Ceramic Society of Japan</i> , 2015 , 123, 86-89 | 1 | 6 |
| 126 | Assessment of carbon contamination in MgAl ₂ O ₄ spinel during spark-plasma-sintering (SPS) processing. <i>Journal of the Ceramic Society of Japan</i> , 2015 , 123, 983-988 | 1 | 26 |
| 125 | Mechanism of superplastic deformed transparent hydroxyapatite. <i>Advances in Applied Ceramics</i> , 2015 , 114, 175-177 | 2.3 | 5 |
| 124 | Spark plasma sintered superplastic deformed transparent ultrafine hydroxyapatite nanoceramics. <i>Advances in Applied Ceramics</i> , 2015 , 1-11 | 2.3 | 1 |
| 123 | Influence of Spark Plasma Sintering (SPS) Conditions on Transmission of MgAl ₂ O ₄ Spinel. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 378-385 | 3.8 | 35 |
| 122 | Nanocrystalline, ultra-degradation-resistant zirconia: its grain boundary nanostructure and nanochemistry. <i>Scientific Reports</i> , 2014 , 4, 4758 | 4.9 | 30 |
| 121 | Fabrication of Transparent MgAl ₂ O ₄ Spinel by Optimizing Loading Schedule during Spark-Plasma-Sintering. <i>Ceramic Transactions</i> , 2014 , 173-180 | 0.1 | 2 |
| 120 | Dynamic grain growth during low-temperature spark plasma sintering of alumina. <i>Scripta Materialia</i> , 2014 , 80, 29-32 | 5.6 | 26 |
| 119 | Densification behaviour and microstructural development in undoped yttria prepared by flash-sintering. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 991-1000 | 6 | 128 |
| 118 | Influence of Loading Condition on Fabrication of Transparent MgAl ₂ O ₄ Spinel Ceramics by Spark-Plasma-Sintering (SPS) Technique. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2014 , 61, 565-574 | 0.2 | |
| 117 | Formation of secondary phase at grain boundary of flash-sintered BaTiO ₃ . <i>Microscopy (Oxford, England)</i> , 2014 , 63 Suppl 1, i19-i20 | 1.3 | 16 |
| 116 | Grain Boundary Segregation-Induced Phase Transformation and Grain Growth in Y ₂ O ₃ -Stabilized ZrO ₂ Polycrystals. <i>Key Engineering Materials</i> , 2014 , 616, 8-13 | 0.4 | 0 |
| 115 | Grain-boundary sliding model of pore shrinkage in late intermediate sintering stage under hydrostatic pressure. <i>Acta Materialia</i> , 2013 , 61, 6661-6669 | 8.4 | 9 |
| 114 | Transparent nanocrystalline bulk alumina obtained at 7.7GPa and 800°C. <i>Scripta Materialia</i> , 2013 , 69, 362-365 | 5.6 | 45 |

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| 113 | Superplastic deformation of transparent hydroxyapatite. <i>Scripta Materialia</i> , 2013 , 69, 155-158 | 5.6 | 20 |
| 112 | Perfect High-Temperature Plasticity Realized in Multiwalled Carbon Nanotube-Concentrated α -Al ₂ O ₃ Hybrid. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 1904-1908 | 3.8 | 11 |
| 111 | Highly transparent α -alumina obtained by low cost high pressure SPS. <i>Ceramics International</i> , 2013 , 39, 3243-3248 | 5.1 | 60 |
| 110 | Comparison of microstructures in superplastically deformed synthetic materials and natural mylonites: Mineral aggregation via grain boundary sliding. <i>Geology</i> , 2013 , 41, 959-962 | 5 | 27 |
| 109 | Effect of loading schedule on densification of MgAl ₂ O ₄ spinel during spark plasma sintering (SPS) processing. <i>Journal of the European Ceramic Society</i> , 2012 , 32, 2303-2309 | 6 | 35 |
| 108 | Doping effect on sinterability of polycrystalline yttria: From the viewpoint of cation diffusivity. <i>Journal of the European Ceramic Society</i> , 2012 , 32, 3103-3114 | 6 | 29 |
| 107 | High-pressure spark plasma sintering of MgO-doped transparent alumina. <i>Journal of the Ceramic Society of Japan</i> , 2012 , 120, 116-118 | 1 | 38 |
| 106 | Effect of Alumina Dopant on Transparency of Tetragonal Zirconia. <i>Journal of Nanomaterials</i> , 2012 , 2012, 1-5 | 3.2 | 25 |
| 105 | Low-Temperature Superplasticity in Nanocrystalline Tetragonal Zirconia Polycrystal (TZP). <i>Journal of the American Ceramic Society</i> , 2012 , 95, 1701-1708 | 3.8 | 14 |
| 104 | Development of High-Strain-Rate Superplastic Oxide Ceramics Based on Flow Mechanism. <i>Materials Science Forum</i> , 2012 , 735, 9-14 | 0.4 | 2 |
| 103 | Controlling of Grain Boundary Structure and High Temperature Matter Transport Phenomena in Polycrystalline Oxide Ceramics. <i>Materia Japan</i> , 2012 , 51, 552-560 | 0.1 | |
| 102 | Shrinkage of Pores Located at Grain Corners by Grain-Boundary Diffusion. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 982-984 | 3.8 | 5 |
| 101 | Optical Properties and Microstructure of Nanocrystalline Cubic Zirconia Prepared by High-Pressure Spark Plasma Sintering. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 2981-2986 | 3.8 | 50 |
| 100 | Low-Temperature Spark Plasma Sintering of Yttria Ceramics with Ultrafine Grain Size. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 3301-3307 | 3.8 | 45 |
| 99 | Highly Infrared Transparent Nanometric Tetragonal Zirconia Prepared by High-Pressure Spark Plasma Sintering. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 2739-2741 | 3.8 | 23 |
| 98 | Fabrication of Transparent Yttria by High-Pressure Spark Plasma Sintering. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 3206-3210 | 3.8 | 62 |
| 97 | Grain-Boundary Segregation and Phase-Separation Mechanism in Yttria-Stabilized Tetragonal Zirconia Polycrystal. <i>Key Engineering Materials</i> , 2011 , 484, 82-88 | 0.4 | |
| 96 | Diffusive model of pore shrinkage in final-stage sintering under hydrostatic pressure. <i>Acta Materialia</i> , 2011 , 59, 4079-4087 | 8.4 | 8 |

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| 95 | Effects of Preheating of Powder Before Spark Plasma Sintering of Transparent MgAl ₂ O ₄ Spinel. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 2158-2160 | 3.8 | 52 |
| 94 | Mantle superplasticity and its self-made demise. <i>Nature</i> , 2010 , 468, 1091-4 | 50.4 | 69 |
| 93 | Fracture Toughness of a Silica-Doped Cubic Zirconia (8Y-CSZ). <i>Materials Science Forum</i> , 2010 , 638-642, 3846-3851 | 0.4 | 1 |
| 92 | Analysis of Grain-Boundary Sliding with Rotating Hexagonal Particles. <i>Key Engineering Materials</i> , 2010 , 433, 305-310 | 0.4 | 1 |
| 91 | Enhanced Densification and Grain-Size Refinement in Cation-Doped Tetragonal Zirconia. <i>Advances in Science and Technology</i> , 2010 , 62, 227-231 | 0.1 | |
| 90 | Densification Behavior in Spark-Plasma-Sintering of MgAl ₂ O ₄ Spinel. <i>Materials Science Forum</i> , 2010 , 654-656, 1986-1989 | 0.4 | |
| 89 | High-Strain-Rate Superplastic Flow Mechanism in ZrO ₂ -30vol% Spinel Two-Phase Composite. <i>Key Engineering Materials</i> , 2010 , 433, 333-338 | 0.4 | 1 |
| 88 | Grain Boundary Nanostructure and High Temperature Plastic Flow in Polycrystalline Oxide Ceramics. <i>Materials Science Forum</i> , 2010 , 638-642, 1731-1736 | 0.4 | 2 |
| 87 | Optical Properties of Transparent MgO-Doped Alumina Fabricated by Spark Plasma Sintering. <i>Materials Science Forum</i> , 2010 , 654-656, 2041-2044 | 0.4 | |
| 86 | Densification Mechanism of MgAl ₂ O ₄ Spinel during Spark-Plasma-Sintering. <i>Advances in Science and Technology</i> , 2010 , 63, 62-67 | 0.1 | 1 |
| 85 | Optimization of high-pressure sintering of transparent zirconia with nano-sized grains. <i>Journal of Alloys and Compounds</i> , 2010 , 508, 196-199 | 5.7 | 41 |
| 84 | Cavitation failure during superplastic tensile loading in alumina-base ceramics. <i>Journal of Physics: Conference Series</i> , 2010 , 240, 012145 | 0.3 | |
| 83 | Light scattering in MgO-doped alumina fabricated by spark plasma sintering. <i>Acta Materialia</i> , 2010 , 58, 4527-4535 | 8.4 | 37 |
| 82 | Densification behavior of a fine-grained MgAl ₂ O ₄ spinel during spark plasma sintering (SPS). <i>Scripta Materialia</i> , 2010 , 63, 565-568 | 5.6 | 46 |
| 81 | Phase-transformation and grain-growth kinetics in yttria-stabilized tetragonal zirconia polycrystal doped with a small amount of alumina. <i>Journal of the European Ceramic Society</i> , 2010 , 30, 1679-1690 | 6 | 31 |
| 80 | Doping effect of divalent cations on sintering of polycrystalline yttria. <i>Journal of the European Ceramic Society</i> , 2010 , 30, 2741-2747 | 6 | 36 |
| 79 | Fabrication of high-strength transparent MgAl ₂ O ₄ spinel polycrystals by optimizing spark-plasma-sintering conditions. <i>Journal of Materials Research</i> , 2009 , 24, 2863-2872 | 2.5 | 50 |
| 78 | Isothermal Sintering Effects on Phase Separation and Grain Growth in Yttria-Stabilized Tetragonal Zirconia Polycrystal. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 467-475 | 3.8 | 41 |

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| 77 | Spark-Plasma-Sintering Condition Optimization for Producing Transparent MgAl ₂ O ₄ Spinel Polycrystal. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 1208-1216 | 3.8 | 101 |
| 76 | Effects of heating rate on microstructure and transparency of spark-plasma-sintered alumina. <i>Journal of the European Ceramic Society</i> , 2009 , 29, 323-327 | 6 | 134 |
| 75 | Ionic conductivity of tetragonal ZrO ₂ polycrystal doped with TiO ₂ and GeO ₂ . <i>Journal of the European Ceramic Society</i> , 2009 , 29, 411-418 | 6 | 17 |
| 74 | Microstructure and optical properties of transparent alumina. <i>Acta Materialia</i> , 2009 , 57, 1319-1326 | 8.4 | 143 |
| 73 | Doping amount and temperature dependence of superplastic flow in tetragonal ZrO ₂ polycrystal doped with TiO ₂ and/or GeO ₂ . <i>Acta Materialia</i> , 2009 , 57, 3029-3038 | 8.4 | 20 |
| 72 | Viscous grain-boundary sliding with rotating particles or grains. <i>Acta Materialia</i> , 2009 , 57, 5730-5738 | 8.4 | 20 |
| 71 | Densification Behavior of Ti-Doped Polycrystalline Alumina in a Nitrogen-Hydrogen Atmosphere. <i>Materials Transactions</i> , 2009 , 50, 1032-1036 | 1.3 | 9 |
| 70 | Low temperature sintering of polycrystalline yttria by transition metal ion doping. <i>Journal of the Ceramic Society of Japan</i> , 2009 , 117, 765-768 | 1 | 19 |
| 69 | High Temperature Grain Boundary Plasticity in Ceramics. <i>Materials Transactions</i> , 2009 , 50, 229-235 | 1.3 | 13 |
| 68 | Grain-boundary structure and microstructure development mechanism in 28mol% yttria-stabilized zirconia polycrystals. <i>Acta Materialia</i> , 2008 , 56, 1315-1325 | 8.4 | 100 |
| 67 | Densification of Nanocrystalline Yttria by Low Temperature Spark Plasma Sintering. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 1707-1710 | 3.8 | 42 |
| 66 | Misfit Dislocation Formation at the c/t Interphase Boundary in Y-TZP. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 3810-3812 | 3.8 | 4 |
| 65 | High-strain-rate superplasticity in oxide ceramics. <i>Science and Technology of Advanced Materials</i> , 2007 , 8, 578-587 | 7.1 | 34 |
| 64 | Spark plasma sintering of transparent alumina. <i>Scripta Materialia</i> , 2007 , 57, 607-610 | 5.6 | 212 |
| 63 | Analysis of Creep Deformation Due to Grain-Boundary Diffusion/Sliding. <i>Key Engineering Materials</i> , 2007 , 345-346, 565-568 | 0.4 | |
| 62 | Estimation of Grain Boundary Diffusivity in Cation-Doped Polycrystalline Alumina. <i>Materials Science Forum</i> , 2007 , 558-559, 997-1002 | 0.4 | 3 |
| 61 | Grain-Boundary Structure and Phase-Transformation Mechanism in Yttria-Stabilized Tetragonal Zirconia Polycrystal. <i>Materials Science Forum</i> , 2007 , 558-559, 921-926 | 0.4 | |
| 60 | Fabrication of Nanocrystalline Superplastic ZrO ₂ Ceramics. <i>Materials Science Forum</i> , 2007 , 551-552, 491-496 | 0.4 | 7 |

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| 59 | High Temperature Creep Strength of Si ₃ N ₄ -Y ₂ Si ₂ O ₇ Ceramics by Stress Relaxation Based on a New Interpretation Model. <i>Key Engineering Materials</i> , 2007 , 336-338, 1420-1423 | 0.4 | 1 |
| 58 | Superplasticity of Nanocrystalline ZrO ₂ -Spinel Composite. <i>Key Engineering Materials</i> , 2007 , 345-346, 573-576 | 0.4 | 2 |
| 57 | Superplastic Behavior in GeO ₂ - TiO ₂ Doped TZP. <i>Key Engineering Materials</i> , 2006 , 317-318, 407-410 | 0.4 | |
| 56 | Strengthening of ZrO ₂ Ceramics due to Nano-Crystallization. <i>Advances in Science and Technology</i> , 2006 , 45, 1674-1679 | 0.1 | 1 |
| 55 | High Temperature Plastic Flow and Ductility in Polycrystalline Oxide Ceramics: Doping Effect and Related Phenomena. <i>Advances in Science and Technology</i> , 2006 , 45, 1620-1625 | 0.1 | |
| 54 | Microstructure and Concentration Distribution of Y ₂ O ₃ in 3Y-TZP Powder. <i>Materia Japan</i> , 2006 , 45, 875-875 | | |
| 53 | Doping Dependence of High Temperature Plastic Flow Behavior in TiO ₂ and GeO ₂ -Doped Tetragonal ZrO ₂ Polycrystals. <i>Journal of the Ceramic Society of Japan</i> , 2006 , 114, 155-160 | | 8 |
| 52 | Grain Boundary Segregation-Induced Phase Transformation in Yttria-Stabilized Tetragonal Zirconia Polycrystal. <i>Journal of the Ceramic Society of Japan</i> , 2006 , 114, 230-237 | | 35 |
| 51 | ?????????????????. <i>Materia Japan</i> , 2006 , 45, 640-643 | 0.1 | |
| 50 | Microstructure and Surface Segregation of 3 mol% Y ₂ O ₃ -Doped ZrO ₂ Particles. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 060612075903007-??? | 3.8 | 1 |
| 49 | Effect of alumina-doping on grain boundary segregation-induced phase transformation in yttria-stabilized tetragonal zirconia polycrystal. <i>Journal of Materials Research</i> , 2006 , 21, 2278-2289 | 2.5 | 57 |
| 48 | Effect of GeO ₂ and NdO _{1.5} Co-Doping on High-Temperature Ductility in TZP. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2005 , 69, 1084-1088 | 0.4 | |
| 47 | GeO ₂ -Doping Dependence of High Temperature Superplastic Behavior in 3Y-TZP. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2005 , 69, 831-834 | 0.4 | |
| 46 | Criterion for High Temperature Failure and Grain Boundary Chemistry in Superplastic TZP. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2005 , 69, 835-840 | 0.4 | |
| 45 | Dopant effect on grain boundary diffusivity in polycrystalline alumina. <i>Acta Materialia</i> , 2005 , 53, 433-440. | 0.4 | 45 |
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