Satoshi Tanaka

List of Publications by Year in descending order

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| 108 | 1,648 | 24 h-index | 35 |
|----------|----------------|--------------|---------------------|
| papers | citations | | g-index |
| 115 | 115 | 115 | 1377 citing authors |
| all docs | docs citations | times ranked | |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Modification of BN nanosheets and their thermal conducting properties in nanocomposite film with polysiloxane according to the orientation of BN. Composites Science and Technology, $2011, 71, 1046-1052$. | 7.8 | 105 |
| 2 | Orientation distribution-Lotgering factor relationship in a polycrystalline material-as an example of bismuth titanate prepared by a magnetic field. Journal of the Ceramic Society of Japan, 2010, 118, 921-926. | 1.1 | 84 |
| 3 | Particle Oriented Bismuth Titanate Ceramics Made in High Magnetic Field. Journal of the Ceramic Society of Japan, 2003, 111, 702-704. | 1.3 | 72 |
| 4 | Fabrication of c-axis oriented polycrystalline ZnO by using a rotating magnetic field and following sintering. Journal of Materials Research, 2006, 21, 703-707. | 2.6 | 62 |
| 5 | Facile preparation of a polysiloxane-based hybrid composite with highly-oriented boron nitride nanosheets and an unmodified surface. Composites Science and Technology, 2010, 70, 1681-1686. | 7.8 | 59 |
| 6 | Orientation dependence of transport property and microstructural characterization of Al-doped ZnO ceramics. Acta Materialia, 2007, 55, 4753-4757. | 7.9 | 49 |
| 7 | Self-assemblies of linearly aligned diamond fillers in polysiloxane/diamond composite films with enhanced thermal conductivity. Composites Science and Technology, 2011, 72, 112-118. | 7.8 | 49 |
| 8 | Sintering deformation caused by particle orientation in uniaxially and isostatically pressed alumina compacts. Journal of the European Ceramic Society, 2002, 22, 311-316. | 5.7 | 43 |
| 9 | Interface topology for distinguishing stages of sintering. Scientific Reports, 2017, 7, 11106. | 3.3 | 41 |
| 10 | C-Axis Orientation of KSr2Nb5O15Using a Rotating Magnetic Field. Journal of the American Ceramic Society, 2007, 90, 3503-3506. | 3.8 | 39 |
| 11 | Crystal-Oriented Bi4Ti3O12Ceramics Fabricated by High-Magnetic-Field Method. Japanese Journal of Applied Physics, 2004, 43, 6645-6648. | 1.5 | 36 |
| 12 | Fabrication of c-axis Oriented Zn0.98Al0.02O by a High-Magnetic-Field via Gelcasting and its Thermoelectric Properties. Journal of the Ceramic Society of Japan, 2006, 114, 1085-1088. | 1.3 | 34 |
| 13 | Strengthâ€Processing Defects Relationship Based on Micrographic Analysis and Fracture Mechanics in Alumina Ceramics. Journal of the American Ceramic Society, 2009, 92, 688-693. | 3.8 | 34 |
| 14 | Effect of Organic Binder Segregation on Sintered Strength of Dry-Pressed Alumina. Journal of the American Ceramic Society, 2006, 89, 1903-1907. | 3.8 | 31 |
| 15 | Coarse pore evolution in dry-pressed alumina ceramics during sintering. Advanced Powder Technology, 2016, 27, 1006-1012. | 4.1 | 31 |
| 16 | Preparation and Thermoelectric Property of Highly Oriented Al-Doped ZnO Ceramics by a High Magnetic Field. Japanese Journal of Applied Physics, 2006, 45, L1212-L1214. | 1.5 | 30 |
| 17 | Linear Assembles of BN Nanosheets, Fabricated in Polymer/BN Nanosheet Composite Film. Journal of Nanomaterials, 2011, 2011, 1-7. | 2.7 | 30 |
| 18 | Effect of internal binder on microstructure in compacts made from granules. Journal of the European Ceramic Society, 2007, 27, 873-877. | 5.7 | 28 |

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| 19 | Epoxy resin-based nanocomposite films with highly oriented BN nanosheets prepared using a nanosecond-pulse electric field. Materials Letters, 2011, 65, 2426-2428. | 2.6 | 28 |
| 20 | Facile orientation of unmodified BN nanosheets in polysiloxane/BN composite films using a high magnetic field. Journal of Materials Science, 2011, 46, 2318-2323. | 3.7 | 27 |
| 21 | 3D multiscale-imaging of processing-induced defects formed during sintering of hierarchical powder packings. Scientific Reports, 2019, 9, 11595. | 3.3 | 27 |
| 22 | Fabrication of transparent crystal-oriented polycrystalline strontium barium niobate ceramics for electro-optical application. Journal of the European Ceramic Society, 2014, 34, 3723-3728. | 5.7 | 26 |
| 23 | c-axis oriented ZnO formed in a rotating magnetic field with various rotation speeds. Journal of the European Ceramic Society, 2009, 29, 955-959. | 5.7 | 25 |
| 24 | Grain Oriented Microstructure Made in High Magnetic Field. Key Engineering Materials, 2002, 206-213, 445-448. | 0.4 | 24 |
| 25 | Crystal-Oriented La-Substituted Sr2NaNb5O15Ceramics Fabricated Using High-Magnetic-Field Method. Japanese Journal of Applied Physics, 2006, 45, 7460-7464. | 1.5 | 23 |
| 26 | C-axis-Oriented (Sr,Ca) ₂ NaNb ₅ O ₁₅ Multilayer Piezoelectric Ceramics Fabricated Using High-Magnetic-Field Method. Japanese Journal of Applied Physics, 2008, 47, 7693. | 1.5 | 22 |
| 27 | Kinetics of property change associated with atmospheric humidity changes in alumina powder granules with PVA binder. Journal of the European Ceramic Society, 2002, 22, 2835-2840. | 5.7 | 20 |
| 28 | Particle Oriented Strontium Bismuth Titanate Ceramics Prepared by Using High Magnetic Field and Subsequent Reaction Sintering. Journal of the Ceramic Society of Japan, 2007, 115, 237-240. | 1.3 | 20 |
| 29 | Computation of sintering stress and bulk viscosity from microtomographic images in viscous sintering of glass particles. Journal of the American Ceramic Society, 2017, 100, 867-875. | 3.8 | 20 |
| 30 | Fabrication of <i>c</i> -axis oriented higher manganese silicide by a high-magnetic-field and its thermoelectric properties. Journal of Materials Research, 2007, 22, 2917-2923. | 2.6 | 19 |
| 31 | Microstructural Evidence of Hall Mobility Anisotropy in c-Axis Textured Al-Doped ZnO. Journal of the American Ceramic Society, 2011, 94, 2339-2343. | 3.8 | 19 |
| 32 | Infrared Microscopy for Examination of Structure in Sprayâ€Dried Granules and Compacts. Journal of the American Ceramic Society, 2001, 84, 254-256. | 3.8 | 18 |
| 33 | Particle Orientation Distribution in Alumina Compact Body Prepared by the Slip Casting Method. Journal of the Ceramic Society of Japan, 2004, 112, 276-279. | 1.3 | 18 |
| 34 | Fabrication of c-axis-oriented potassium strontium niobate (KSr2Nb5O15) ceramics by a rotating magnetic field and electrical property. Journal of the Ceramic Society of Japan, 2010, 118, 722-725. | 1.1 | 18 |
| 35 | Fabrication of Transparent Grainâ€Oriented Polycrystalline Alumina by Colloidal Processing. Journal of the American Ceramic Society, 2016, 99, 3217-3219. | 3.8 | 18 |
| 36 | A quantitative evaluation method for particle orientation structure in alumina powder compacts. Journal of the European Ceramic Society, 2007, 27, 3399-3406. | 5.7 | 17 |

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| 37 | Direct observation of aggregates and agglomerates in alumina granules. Powder Technology, 2003, 129, 153-155. | 4.2 | 16 |
| 38 | Fabrication of crystal-oriented barium-bismuth titanate ceramics in high magnetic field and subsequent reaction sintering. Science and Technology of Advanced Materials, 2009, 10, 014602. | 6.1 | 16 |
| 39 | Effect of Cold Isostatic Pressing on Microstructure and Shrinkage Anisotropy during Sintering of Uniaxially Pressed Alumina Compacts Journal of the Ceramic Society of Japan, 2002, 110, 264-269. | 1.3 | 15 |
| 40 | Thermal anisotropy of epoxy resin-based nano-hybrid films containing BN nanosheets under a rotating superconducting magnetic field. Materials Chemistry and Physics, 2013, 139, 355-359. | 4.0 | 15 |
| 41 | Influence of binder layer of spray-dried granules on occurrence and evolution of coarse defects in alumina ceramics during sintering. Journal of the European Ceramic Society, 2018, 38, 1846-1852. | 5.7 | 15 |
| 42 | Direct Evidence for Lowâ€Density Regions in Compacted Sprayâ€Dried Powders. Journal of the American Ceramic Society, 2001, 84, 2454-2456. | 3.8 | 14 |
| 43 | Estimation of Weibull modulus from coarser defect distribution in dry-pressed alumina ceramics. Journal of the Ceramic Society of Japan, 2009, 117, 742-747. | 1.1 | 14 |
| 44 | Particle sedimentation monitoring in high-concentration slurries. AIP Advances, 2016, 6, . | 1.3 | 14 |
| 45 | Electric-field-assisted fabrication of linearly stretched bundles of microdiamonds in polysiloxane-based composite material. Diamond and Related Materials, 2012, 26, 7-14. | 3.9 | 13 |
| 46 | Packing Structure of Particles in a Green Compact and Its Influence on Sintering Deformation. Journal of the American Ceramic Society, 2007, 90, 3717-3719. | 3.8 | 12 |
| 47 | Colloidal processing using UV curable resin under high magnetic field for textured ceramics. Journal of the European Ceramic Society, 2016, 36, 2739-2743. | 5.7 | 12 |
| 48 | The effect of packing structure of powder particles on warping during sintering. Journal of the European Ceramic Society, 2008, 28, 21-25. | 5.7 | 10 |
| 49 | Evolution of Discontinuity in Particle Orientation in Ceramic Tape Casting. Journal of the American Ceramic Society, 2008, 91, 3181-3184. | 3.8 | 9 |
| 50 | High-Power Piezoelectric Characteristics of C-Axis Crystal-Oriented (Sr,Ca) ₂ NaNb ₅ O ₁₅ Ceramics. Japanese Journal of Applied Physics, 2012, 51, 09LD02. | 1.5 | 9 |
| 51 | Evaluation of dispersability of gamma alumina prepared by homogeneous precipitation. Journal of the Ceramic Society of Japan, 2012, 120, 290-294. | 1.1 | 9 |
| 52 | Densely Packed Linear Assembles of Carbon Nanotube Bundles in Polysiloxane-Based Nanocomposite Films. Journal of Nanomaterials, 2013, 2013, 1-10. | 2.7 | 9 |
| 53 | Crystal-oriented (Bi _{0.5} ,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 112 Td (Na <su by="" ceramic<="" ceramics="" colloidal="" field.="" high="" in="" journal="" magnetic="" of="" prepared="" processing="" rotating="" td="" the=""><td>ıb>0.5& 1.1</td><td>.lt;/sub>)& 9</td></su> | ıb>0.5& 1.1 | .lt;/sub>)& 9 |
| 54 | Society of Japan. 2015. 123. 340-344. High-power properties of crystal-oriented (Sr,Ca) < sub > 2 < / sub > NaNb < sub > 5 < / sub > O < sub > 15 < / sub > piezoelectric ceramics and their application to ultrasonic motors. Japanese Journal of Applied Physics, 2019, 58, SGGA07. | 1.5 | 9 |

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| 55 | Fabrication of c-axis oriented hydroxyapatite ceramics in a rotating high magnetic field using photopolymerization. Journal of the European Ceramic Society, 2020, 40, 4332-4339. | 5.7 | 9 |
| 56 | Effect of Segregation of a Polyacrylic Acid (PAA) Binder on the Green Strength of Dryâ€Pressed Alumina Compacts. Journal of the American Ceramic Society, 2008, 91, 3896-3902. | 3.8 | 8 |
| 57 | Effect of polyacrylic acid (PAA) binder system on particle orientation during dry-pressing. Powder Technology, 2009, 196, 133-138. | 4.2 | 8 |
| 58 | Formation and Structural Characteristic of Perpendicularly Aligned Boron Nitride Nanosheet Bridges in Polymer/Boron Nitride Composite Film and Its Thermal Conductivity. Japanese Journal of Applied Physics, 2011, 50, 01BJ05. | 1.5 | 8 |
| 59 | Development of Packing Structure of Powder Particles in Tape Casting. Journal of the Ceramic Society of Japan, 2007, 115, 136-140. | 1.3 | 7 |
| 60 | Stochastic analysis on ceramic granule collapse in powder compact during cold isostatic pressing. Advanced Powder Technology, 2016, 27, 940-947. | 4.1 | 7 |
| 61 | Morphological Change of Large Pores in Alumina Ceramics in the Final Stage of Densification. Journal of the Ceramic Society of Japan, 2003, 111 , 525-527. | 1.3 | 6 |
| 62 | Design of Packing Structures through Direct Characterization of Ceramics Green Bodies. Journal of the Ceramic Society of Japan, 2006, 114, 141-146. | 1.3 | 6 |
| 63 | Fabrication of highly particle-oriented alumina green compact from non-aqueous slurry. Journal of the Ceramic Society of Japan, 2011, 119, 198-202. | 1.1 | 6 |
| 64 | Enhancing the contrast of low-density packing regions in images of ceramic powder compacts using a contrast agent for micro-X-ray computed tomography. Journal of the Ceramic Society of Japan, 2014, 122, 574-576. | 1.1 | 6 |
| 65 | High-power properties of (Sr,Ca)2NaNb5O15piezoelectric ceramics in a longitudinal mode. Japanese Journal of Applied Physics, 2020, 59, SKKA07. | 1.5 | 6 |
| 66 | High-Power Piezoelectric Characteristics of <i>C</i> -Axis Crystal-Oriented (Sr,Ca) ₂ NaNb ₅ O ₁₅ Ceramics. Japanese Journal of Applied Physics, 2012, 51, 09LD02. | 1.5 | 6 |
| 67 | Infrared Microscopy as a Powerful Tool for the Examination of Internal Microstructure of Nano-Powder Compact-Yittria Stabilized Zirconia as a Model Journal of the Ceramic Society of Japan, 2004, 112, 114-116. | 1.3 | 5 |
| 68 | Polyepoxide-based nanohybrid films with self-assembled linear assemblies of nanodiamonds. Acta Materialia, 2012, 60, 7249-7257. | 7.9 | 5 |
| 69 | Anisotropic sintering behavior of grain-oriented strontium barium niobate ceramics. Journal of the Ceramic Society of Japan, 2013, 121, 411-415. | 1.1 | 5 |
| 70 | Observation of Particle Motion in Highâ€Concentration Ceramic Slurries Under Low Shear Rate. Journal of the American Ceramic Society, 2015, 98, 1429-1436. | 3.8 | 5 |
| 71 | Particle Rotation in Colloidal Processing under a Strong Rotating Magnetic Field. Langmuir, 2018, 34, 6462-6469. | 3.5 | 5 |

Influence of tetragonality on crystal orientation induced by a strong magnetic field and on the piezoelectric properties of the (Bi_{0.5},) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td (Na<sub>0.5</sub}1.1 sub>1â.2 c/sub><ia system. Journal of the Ceramic Society of Japan, 2018, 126, 655-661.

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| 73 | Domain coarsening in viscous sintering as a result of topological pore evolution. Journal of the European Ceramic Society, 2022, 42, 729-733. | 5.7 | 5 |
| 74 | Influence of Dehydration Rate on the Degree of Particle Orientation in Alumina Green Body Made by Slip Casting. Journal of the Ceramic Society of Japan, 2004, 112, 641-645. | 1.3 | 4 |
| 75 | Observation of the granule packing structure using a confocal laser-scanning microscope. Journal of the European Ceramic Society, 2006, 26, 683-687. | 5.7 | 4 |
| 76 | Compatibility of PVB of Mixed Organic Solvents in Alumina Slurries and its Effect on Morphology of Green Sheets. Journal of the American Ceramic Society, 2011, 94, 2819-2824. | 3.8 | 4 |
| 77 | Quantitative analysis of de-aggregation behavior in alumina suspension by beads milling. Powder Technology, 2012, 217, 619-623. | 4.2 | 4 |
| 78 | Effects of ammonium molybdate additive and sintering temperature on the properties of foam ceramics based on ceramic tile polishing waste. Journal of the Ceramic Society of Japan, 2019, 127, 318-326. | 1.1 | 4 |
| 79 | Formation and Structural Characteristic of Perpendicularly Aligned Boron Nitride Nanosheet Bridges in Polymer/Boron Nitride Composite Film and Its Thermal Conductivity. Japanese Journal of Applied Physics, 2011, 50, 01BJ05. | 1.5 | 4 |
| 80 | Hardening of (Ba _{0.5} Na _{0.5}) _{0.85} Ba _{0.15} TiO ₃ lead-free piezoelectric ceramics by adding (Bi _{0.5} Na _{0.5})MnO ₃ . Japanese Journal of Applied Physics, 2022, 61, SG1058. | 1.5 | 4 |
| 81 | Piezoelectric Properties of <i>c</i> -Axis-Oriented (Sr,Ca) ₂ NaNb ₅ O ₁₅ Piezoelectric Ceramics with Single-Plate Type and Multilayered Type Fabricated Using Crystal-Oriented Sheet Forming, Key Engineering Materials, 0, 421-422, 21-25. | 0.4 | 3 |
| 82 | Influence of Aggregates in αâ€∢scp> <scp>Al</scp> Slurry on Orientation Degree of Powder Compact Fabricated by Magnetic Forming Method. Journal of the American Ceramic Society, 2013, 96, 2411-2418. | 3.8 | 3 |
| 83 | Influence of granule characteristics on fabrication of translucent alumina ceramics with high strength and reliability. Journal of the Ceramic Society of Japan, 2016, 124, 426-431. | 1.1 | 3 |
| 84 | [101]-Oriented (Li,Na,K) NbO ₃ ceramics prepared by magnetic field-assisted forming, sintering, and electric poling. Journal of the Ceramic Society of Japan, 2019, 127, 887-892. | 1.1 | 3 |
| 85 | Characterization of Internal Structure of a Green Body Made by Dry-Pressing. Key Engineering Materials, 2004, 264-268, 189-192. | 0.4 | 2 |
| 86 | Evaluation of Bubble Content in Aqueous Alumina Slurries. Journal of the Ceramic Society of Japan, 2005, 113, 449-451. | 1.3 | 2 |
| 87 | Determination of sintering stress and bulk viscosity from sinter-forging and X-ray microtomography methods: a Review. Materials Today: Proceedings, 2019, 16, 42-48. | 1.8 | 2 |
| 88 | Preparation and gas permeance of c-axis oriented zeolite membrane using ion-exchanged mordenite zeolite crystals oriented in magnetic field. Journal of the European Ceramic Society, 2020, 40, 5984-5990. | 5.7 | 2 |
| 89 | Direct observation of the deformation behavior of agglomerates in a highly concentrated slurry under startup shear flow. Open Ceramics, 2022, 9, 100209. | 2.0 | 2 |
| 90 | Fractography for Alumina Ceramics Using a Confocal Scanning Laser Microscope Journal of the Ceramic Society of Japan, 2001, 109, 1055-1056. | 1.3 | 1 |

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| 91 | New characterization method for pore and packing structure in powder compacts using confocal laser scanning microscope. Journal of Electron Microscopy, 2002, 51, 215-223. | 0.9 | 1 |
| 92 | Improvement of Second-Order Optical Nonlinearity in Transparent Ba ₂ TiGe ₂ O ₈ Crystallized Glasses Prepared in High Magnetic Field. Advanced Materials Research, 2006, 11-12, 193-196. | 0.3 | 1 |
| 93 | Zinc Oxide Ceramics with High Mobility as n-Type Thermoelectric Materials. Materials Science Forum, 2007, 561-565, 581-586. | 0.3 | 1 |
| 94 | Elastic Analysis on Homogenization Process in Ceramic Powder Compact during Repeated Cold Isostatic Pressing by Multiple Shell Model. Journal of the Society of Powder Technology, Japan, 2014, 51, 153-162. | 0.1 | 1 |
| 95 | Effect of Slurry Temperature on Particle Orientation in Magnetic Field Assisted Forming Method. Journal of the Society of Powder Technology, Japan, 2016, 53, 791-796. | 0.1 | 1 |
| 96 | Complicated Flow Behavior of Silica Particles in Concentrated Slurry. Journal of the Society of Powder Technology, Japan, 2016, 53, 294-300. | 0.1 | 1 |
| 97 | Effective oriented direction for enhancement of the piezoelectric properties of crystal-oriented (Li,) Tj ETQq1 1 | . 0.784314 r 2.3 | rgBŢ /Overloc |
| 98 | Development of Functional Ceramics by Colloidal Processing in Rotating High Magnetic Field. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2021, 68, 113-120. | 0.2 | 1 |
| 99 | Fabrication of Crystal-Oriented Bulk Piezoelectric Ceramics by Stereolithography in Magnetic Field. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2020, 67, 621-628. | 0.2 | 1 |
| 100 | Anisotropic sintering of oriented ceramics prepared in a rotating magnetic field. IOP Conference Series: Materials Science and Engineering, 2011, 21, 012008. | 0.6 | 0 |
| 101 | Controlled Linear Assemblies of Graphite Flakes Anchoring Polysiloxane-Based Nanocomposite Films and Enhancement of Thermal Properties. Japanese Journal of Applied Physics, 2013, 52, 028005. | 1.5 | 0 |
| 102 | Linear Assembly of Oxidized Surface Treated Nanodiamonds in Polymer-Based Nanohybrids by Electric Field Inducement. Materials Science Forum, 0, 761, 107-111. | 0.3 | 0 |
| 103 | Stress Estimation for Multiphase Ceramics Laminates During Sintering. Ceramic Engineering and Science Proceedings, 2015, , 101-106. | 0.1 | O |
| 104 | Evaluation of Macroscopic Mechanical Properties from 3-D Visualization of Microstructure in Sintering. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2017, 64, 495-500. | 0.2 | 0 |
| 105 | Graded evolution of anisotropic microstructure during sintering from crystalâ€oriented powder compact. International Journal of Applied Ceramic Technology, 2020, 17, 677-684. | 2.1 | O |
| 106 | Anisotropic Properties of Al Doped ZnO Ceramics Fabricated by the High Magnetic Field., 0,, 113-120. | | 0 |
| 107 | Evaluation of Macroscopic Mechanical Properties from 3-D Visualization of Microstructure in Sintering. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2019, 66, 604-610. | 0.2 | 0 |
| 108 | Defect formation and strength reliability during powder compaction and sintering process observed by Synchrotron X-ray CT. The Proceedings of the Materials and Processing Conference, 2020, 2020.28, 307. | 0.0 | 0 |