

Dang-Hyok Yoon

List of Publications by Year in descending order

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102
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236612

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40
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103
all docs

103
docs citations

103
times ranked

1766
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Review on transparent polycrystalline ceramics. Journal of the Korean Ceramic Society, 2022, 59, 1-24. | 1.1 | 9 |
| 2 | Fabrication and photoluminescence of $\hat{\Gamma}^3$ -ALON:Sm and Yb. Journal of the European Ceramic Society, 2022, 42, 1348-1353. | 2.8 | 4 |
| 3 | Effects of impurities on the slip viscosity and sintered properties of low-soda easy-sintered $\hat{\Gamma}^{\pm}$ -alumina. Journal of the Korean Ceramic Society, 2022, 59, 595-603. | 1.1 | 5 |
| 4 | Joining of alumina using magnesium- or calcium-aluminosilicate glass-ceramic fillers. Ceramics International, 2022, 48, 21532-21542. | 2.3 | 7 |
| 5 | Joining of Ti-coated monolithic SiC using a SiCw/Ti ₃ SiC ₂ filler by electric field-assisted sintering. Journal of the European Ceramic Society, 2021, 41, 1834-1840. | 2.8 | 16 |
| 6 | Transparent polycrystalline $\hat{\Gamma}^3$ -ALON fabricated using a hybrid sintering process. Scripta Materialia, 2021, 194, 113715. | 2.6 | 15 |
| 7 | Characterization of complex die-pressed Al ₂ O ₃ green compact using liquid immersion, X-ray tomography, and numerical simulations. Journal of the European Ceramic Society, 2021, 41, 4558-4566. | 2.8 | 1 |
| 8 | Modification of a low-soda easy-sintered $\hat{\Gamma}^{\pm}$ -Al ₂ O ₃ powder for the application in semiconductor/display production equipment. Korean Journal of Chemical Engineering, 2021, 38, 2541-2548. | 1.2 | 6 |
| 9 | Microstructural observation of complex-shaped green ceramic compact and numerical simulation with special consideration on crack formation. Ceramics International, 2021, 47, 32179-32186. | 2.3 | 0 |
| 10 | Plasma etching properties of various transparent ceramics. Ceramics International, 2020, 46, 2895-2900. | 2.3 | 13 |
| 11 | Solid-state joining of SiC using a thin Ti ₃ AlC ₂ , TiC, or Ti filler. Journal of the European Ceramic Society, 2020, 40, 2716-2720. | 2.8 | 11 |
| 12 | Joining of SiCf/SiC using a layered Ti ₃ SiC ₂ -SiCw and TiC gradient filler. Journal of the European Ceramic Society, 2020, 40, 1043-1051. | 2.8 | 17 |
| 13 | Fabrication of SiCw/Ti ₃ SiC ₂ composites with improved thermal conductivity and mechanical properties using spark plasma sintering. Journal of Advanced Ceramics, 2020, 9, 462-470. | 8.9 | 49 |
| 14 | Fabrication of SiCf/Ti ₃ SiC ₂ by the electrophoresis of highly dispersed Ti ₃ SiC ₂ powder. Ceramics International, 2020, 46, 18168-18174. | 2.3 | 11 |
| 15 | Effects of various rare-earth additives on the sintering and transmittance of $\hat{\Gamma}^3$ -ALON. Journal of the European Ceramic Society, 2020, 40, 3235-3243. | 2.8 | 20 |
| 16 | A review on the joining of SiC for high-temperature applications. Journal of the Korean Ceramic Society, 2020, 57, 246-270. | 1.1 | 44 |
| 17 | Granule rearrangement and pore structure of a spray-dried alumina compact observed by X-ray tomography. Journal of the European Ceramic Society, 2020, 40, 2445-2452. | 2.8 | 6 |
| 18 | Transparent Polycrystalline $\hat{\Gamma}^3$ -ALON Ceramics. Ceramist, 2020, 23, 244-260. | 0.0 | 1 |

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|----|---|-----|-----------|
| 19 | Fabrication of transparent \hat{I}^3 -ALON by direct 2-step pressureless sintering of Al_2O_3 and AlN using an AlN-deficient composition. <i>Journal of the European Ceramic Society</i> , 2019, 39, 4673-4679. | 2.8 | 32 |
| 20 | Formation of CeO_2 coatings on $Si\hat{I}^4$ -SiC foams by electrophoretic deposition and sintering in air. <i>Ceramics International</i> , 2019, 45, 15603-15608. | 2.3 | 3 |
| 21 | Fabrication and mechanical behavior of ZrB ₂ strengthened SiCf/SiC composites prepared by hybrid processing route. <i>Ceramics International</i> , 2019, 45, 3648-3656. | 2.3 | 4 |
| 22 | Fabrication of Mullite-Bonded Porous SiC Using Ti ₃ AlC ₂ MAX Phase. <i>Journal of the Korean Ceramic Society</i> , 2019, 56, 191-196. | 1.1 | 3 |
| 23 | Effects of Reactive Air Brazing Parameters on the Interfacial Microstructure and Shear Strength of GDC \hat{I}^4 -LSM/Crofer 22 APU Joints. <i>Journal of the Korean Ceramic Society</i> , 2019, 56, 394-398. | 1.1 | 3 |
| 24 | Joining of SiCf/SiC using polycarbosilane and polysilazane preceramic mixtures. <i>Ceramics International</i> , 2018, 44, 10443-10450. | 2.3 | 23 |
| 25 | Interfacial microstructure and shear strength of reactive air brazed oxygen transport membrane ceramic \hat{I}^4 -metal alloy joints. <i>Metals and Materials International</i> , 2018, 24, 157-169. | 1.8 | 16 |
| 26 | Effects of sintering additives on the microstructural and mechanical properties of the ion-irradiated SiCf/SiC. <i>Journal of Nuclear Materials</i> , 2018, 503, 226-234. | 1.3 | 12 |
| 27 | Joining of SiC monoliths using a thin MAX phase tape and the elimination of joining layer by solid-state diffusion. <i>Journal of the European Ceramic Society</i> , 2018, 38, 3433-3440. | 2.8 | 33 |
| 28 | Joining of SiCf/SiC using a Ti ₃ AlC ₂ filler and subsequent elimination of the joining layer. <i>Ceramics International</i> , 2018, 44, 22943-22949. | 2.3 | 13 |
| 29 | Efficacy of Ag \hat{I}^4 -CuO Filler Tape for the Reactive Air Brazing of Ceramic \hat{I}^4 -Metal Joints. <i>Journal of the Korean Ceramic Society</i> , 2018, 55, 492-497. | 1.1 | 12 |
| 30 | Thermal batteries with ceramic felt separators \hat{I}^4 Part 2: Ionic conductivity, electrochemical and mechanical properties. <i>Ceramics International</i> , 2017, 43, 4023-4028. | 2.3 | 17 |
| 31 | Fabrication of tubular SiCf/SiC using different preform architectures by electrophoretic deposition and hot pressing. <i>Ceramics International</i> , 2017, 43, 7618-7626. | 2.3 | 11 |
| 32 | Fabrication of tough SiCf/SiC composites by electrophoretic deposition using a fabric coated with FeO-catalyzed phenolic resin. <i>Journal of the European Ceramic Society</i> , 2017, 37, 1311-1320. | 2.8 | 9 |
| 33 | Thermal batteries with ceramic felt separators \hat{I}^4 Part 1: Wetting, loading behavior and chemical stability. <i>Ceramics International</i> , 2017, 43, 4015-4022. | 2.3 | 11 |
| 34 | Fabrication of SiCf/SiC and integrated assemblies for nuclear reactor applications. <i>Ceramics International</i> , 2017, 43, 17211-17215. | 2.3 | 24 |
| 35 | Effects of post-sintering annealing on the microstructure and toughness of hot-pressed SiCf/SiC composites with Al_2O_3 - Y_2O_3 additions. <i>Ceramics International</i> , 2017, 43, 13330-13338. | 2.3 | 6 |
| 36 | Synthesis, Structural, and Magnetic Properties of Co-doped and Mn-doped ZnO Nanocrystalline DMS Prepared by the Facile Polyvinyl Alcohol Gel Method. <i>Journal of Superconductivity and Novel Magnetism</i> , 2017, 30, 203-208. | 0.8 | 4 |

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|----|--|-----|-----------|
| 37 | Low Pressure Joining of SiCf/SiC Composites Using Ti ₃ AlC ₂ or Ti ₃ SiC ₂ MAX Phase Tape. Journal of the Korean Ceramic Society, 2017, 54, 340-348. | 1.1 | 19 |
| 38 | Microstructure-flexural strength correlation and efficacy of rare earth nitrates on the sintering of SiCf/SiC composites. Journal of the European Ceramic Society, 2016, 36, 991-999. | 2.8 | 9 |
| 39 | Microstructure-fracture behavior correlation of toughened SiCf/SiC composites prepared by vacuum infiltration and hot pressing. Ceramics International, 2016, 42, 8713-8723. | 2.3 | 5 |
| 40 | Sintering additives for SiC based on the reactivity: A review. Ceramics International, 2016, 42, 17947-17962. | 2.3 | 119 |
| 41 | Joining of metal-ceramic using reactive air brazing for oxygen transport membrane applications. Materials and Design, 2016, 109, 233-241. | 3.3 | 35 |
| 42 | Reactive air brazing of GDC/LSCF ceramics using Ag-10 wt% CuO paste for oxygen transport membrane applications. Ceramics International, 2016, 42, 16392-16395. | 2.3 | 19 |
| 43 | Controlling the Magnetic Properties of Nickel Ferrites by Doping with Different Divalent Transition Metal (Co, Cu, and Zn) Cations. Journal of Superconductivity and Novel Magnetism, 2016, 29, 439-445. | 0.8 | 26 |
| 44 | Effects of the Sintering Conditions on the Structural Phase Evolution and T _C of Bi _{1.6} Pb _{0.4} Sr ₂ Ca ₂ Cu ₃ O ₇ Prepared Using the Citrate sol-gel Method. Journal of Superconductivity and Novel Magnetism, 2016, 29, 1491-1497. | 0.8 | 17 |
| 45 | Effects of Sc ₂ O ₃ sintering aid for the densification and mechanical properties of SiC-ZrB ₂ composites. Ceramics International, 2016, 42, 7300-7308. | 2.3 | 10 |
| 46 | Effect of sintering atmosphere on the grain growth and hardness of SiC/polysilazane ceramic composites. Advances in Applied Ceramics, 2016, 115, 272-275. | 0.6 | 8 |
| 47 | Fabrication of the tube-shaped SiCf/SiC by hot pressing. Ceramics International, 2015, 41, 7890-7896. | 2.3 | 28 |
| 48 | Synthesis and Characterization of Bi _{1.6} Pb _{0.4} Sr ₂ Ca ₂ Cu ₃ O ₇ Superconducting Oxide by High-Energy Milling. Journal of Superconductivity and Novel Magnetism, 2015, 28, 2259-2266. | 0.8 | 21 |
| 49 | Fabrication of SiCf/SiC composites by alternating current electrophoretic deposition (AC-EPD) and hot pressing. Journal of the European Ceramic Society, 2015, 35, 503-511. | 2.8 | 32 |
| 50 | Formation of a Carbon Interphase Layer on SiC Fibers Using Electrophoretic Deposition and Infiltration Methods. Journal of the Korean Ceramic Society, 2015, 52, 284-289. | 1.1 | 2 |
| 51 | Low-Temperature Neutron Diffraction and Magnetic Properties of La _{1.2} Sr _{0.9} Ca _{0.9} Mn ₂ O ₇ . Journal of Superconductivity and Novel Magnetism, 2014, 27, 2501-2506. | 0.8 | 2 |
| 52 | Effects of high-energy milling on the solid-state synthesis of pure nano-sized Li ₄ Ti ₅ O ₁₂ for high power lithium battery applications. Applied Physics A: Materials Science and Processing, 2014, 114, 925-930. | 1.1 | 14 |
| 53 | Highly dense and fine-grained SiC with a Sc-nitrate sintering additive. Journal of the European Ceramic Society, 2014, 34, 825-830. | 2.8 | 15 |
| 54 | Fabrication of cylindrical SiCf/Si/SiC-based composite by electrophoretic deposition and liquid silicon infiltration. Journal of the European Ceramic Society, 2014, 34, 1131-1138. | 2.8 | 25 |

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|----|--|-----|-----------|
| 55 | Aqueous electrophoretic deposition of SiC using asymmetric AC electric fields. <i>Ceramics International</i> , 2014, 40, 12609-12612. | 2.3 | 10 |
| 56 | Properties of alumina matrix composites reinforced with SiC whisker and carbon nanotubes. <i>Ceramics International</i> , 2014, 40, 14375-14383. | 2.3 | 25 |
| 57 | Properties of Al ₂ O ₃ -SiC Composites Fabricated by Three Preparation Methods. <i>Journal of the Korean Ceramic Society</i> , 2014, 51, 392-398. | 1.1 | 0 |
| 58 | Metal oxide additives for the sintering of silicon carbide: Reactivity and densification. <i>Current Applied Physics</i> , 2013, 13, 287-292. | 1.1 | 57 |
| 59 | Rare-earth nitrate additives for the sintering of silicon carbide. <i>Journal of the European Ceramic Society</i> , 2013, 33, 2915-2923. | 2.8 | 42 |
| 60 | Improved field emission stability and uniformity of printed carbon nanotubes prepared using high energy-milled glass frit. <i>Current Applied Physics</i> , 2013, 13, 1477-1481. | 1.1 | 6 |
| 61 | Rare-earth oxide additives for the sintering of silicon carbide. <i>Diamond and Related Materials</i> , 2013, 38, 124-130. | 1.8 | 42 |
| 62 | Phase formation of Si-based ceramic composites from polyureasilazane prepared by hot pressing and EFAS. <i>Scripta Materialia</i> , 2013, 69, 127-130. | 2.6 | 1 |
| 63 | Solid-state synthesis of Li ₄ Ti ₅ O ₁₂ for high power lithium ion battery applications. <i>Journal of Alloys and Compounds</i> , 2013, 570, 144-149. | 2.8 | 47 |
| 64 | Effect of hexagonal-BN on phase transformation of additive-free Si ₃ N ₄ /SiC nanocomposites prepared from amorphous precursor. <i>Transactions of Nonferrous Metals Society of China</i> , 2013, 23, 420-425. | 1.7 | 5 |
| 65 | Effects of Al ₂ O ₃ -RE ₂ O ₃ Additive for the Sintering of SiC and the Fabrication of SiCf/SiC Composites. <i>Journal of the Korean Ceramic Society</i> , 2013, 50, 364-371. | 1.1 | 4 |
| 66 | Effects of TiO ₂ Starting Materials on the Solid-state Formation of Li ₄ Ti ₅ O ₁₂ . <i>Journal of the American Ceramic Society</i> , 2012, 95, 1894-1900. | 1.1 | 25 |
| 67 | Synthesis of pure nano-sized Li ₄ Ti ₅ O ₁₂ powder via solid-state reaction using very fine grinding media. <i>Ceramics International</i> , 2012, 38, 6963-6968. | 2.3 | 17 |
| 68 | Effects of Li/Ti ratios on the electrochemical properties of Li ₄ Ti ₅ O ₁₂ examined by time-resolved X-ray diffraction. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 107, 769-775. | 1.1 | 12 |
| 69 | Effects of post-treatments on the electrochemical properties of solid-state reacted Li ₄ Ti ₅ O ₁₂ high energy milling and annealing. <i>Journal of Electroceramics</i> , 2012, 28, 178-184. | 0.8 | 12 |
| 70 | One component metal oxide sintering additive for \hat{I}^2 -SiC based on thermodynamic calculation and experimental observations. <i>Metals and Materials International</i> , 2012, 18, 63-68. | 1.8 | 20 |
| 71 | Effects of the starting materials and mechanochemical activation on the properties of solid-state reacted Li ₄ Ti ₅ O ₁₂ for lithium ion batteries. <i>Ceramics International</i> , 2012, 38, 301-310. | 2.3 | 46 |
| 72 | Properties of SiC _f /SiC composites fabricated by slurry infiltration and hot pressing. <i>Materials Science and Technology</i> , 2011, 27, 257-263. | 0.8 | 16 |

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|----|---|-----|-----------|
| 73 | Thermal Decomposition of Degassed Barium Titanyl Oxalate: In Comparison to the Solid-State Reaction Mechanism. <i>Journal of the American Ceramic Society</i> , 2011, 94, 59-65. | 1.9 | 1 |
| 74 | One component metal sintering additive for \hat{I}^2 -SiC based on thermodynamic calculation and experimental observations. <i>Materials Research Bulletin</i> , 2011, 46, 1186-1191. | 2.7 | 18 |
| 75 | Formation mechanism of barium titanate by thermal decomposition of barium titanyl oxalate. <i>Ceramics International</i> , 2011, 37, 669-672. | 2.3 | 9 |
| 76 | Effects of Hot Pressing Condition on the Properties of SiCf/SiC Composites. <i>Journal of the Korean Ceramic Society</i> , 2011, 48, 335-341. | 1.1 | 3 |
| 77 | Lowering the sintering temperature of Gd-doped ceria by mechanochemical activation. <i>Ceramics International</i> , 2010, 36, 371-374. | 2.3 | 19 |
| 78 | Effect of temperature schedule on the particle size of barium titanate during solid-state reaction. <i>Materials Letters</i> , 2010, 64, 170-172. | 1.3 | 13 |
| 79 | Effects of impurities on the properties of BaTiO ₃ synthesized from barium titanyl oxalate. <i>Ceramics International</i> , 2010, 36, 1997-2002. | 2.3 | 14 |
| 80 | Prevention of Grain Growth during the Liquid-Phase Assisted Sintering of \hat{I}^2 -SiC. <i>Journal of the Korean Ceramic Society</i> , 2010, 47, 485-490. | 1.1 | 5 |
| 81 | Improvement of SiCf/SiC density by slurry infiltration and tape stacking. <i>Materials Research Bulletin</i> , 2009, 44, 2116-2122. | 2.7 | 40 |
| 82 | Properties of BaTiO ₃ synthesized from barium titanyl oxalate. <i>Ceramics International</i> , 2009, 35, 2337-2342. | 2.3 | 17 |
| 83 | Fabrication of SiCf/SiC Composites using an Electrophoretic Deposition. <i>Journal of the Korean Ceramic Society</i> , 2009, 46, 447-451. | 1.1 | 15 |
| 84 | Milling and dispersion of multi-walled carbon nanotubes in texanol. <i>Applied Surface Science</i> , 2008, 254, 3412-3419. | 3.1 | 60 |
| 85 | Field emission properties of carbon nanotube pastes examined using design of experiments. <i>Journal of Materials Science: Materials in Electronics</i> , 2008, 19, 17-23. | 1.1 | 7 |
| 86 | Optimization of field emission properties from multi-walled carbon nanotubes using ceramic fillers. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 93, 511-516. | 1.1 | 6 |
| 87 | Dispersion and field emission properties of multi-walled carbon nanotubes by high-energy milling. <i>Materials Chemistry and Physics</i> , 2008, 110, 363-369. | 2.0 | 13 |
| 88 | Field emission from multi-walled carbon nanotubes with various fillers. <i>Materials Letters</i> , 2008, 62, 2795-2798. | 1.3 | 8 |
| 89 | Effects of heat treatment and particle size on the tetragonality of nano-sized barium titanate powder. <i>Ceramics International</i> , 2007, 33, 1357-1362. | 2.3 | 28 |
| 90 | Thin intergranular films and solid-state activated sintering in nickel-doped tungsten. <i>Acta Materialia</i> , 2007, 55, 3131-3142. | 3.8 | 190 |

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| 91 | Tetragonality of nano-sized barium titanate powder prepared with growth inhibitors upon heat treatment. <i>Journal of the European Ceramic Society</i> , 2007, 27, 247-252. | 2.8 | 19 |
| 92 | Synthesis of fine Ca-doped BaTiO ₃ powders by solid-state reaction methodâ€”Part II: Rheological study on milling. <i>Journal of Electroceramics</i> , 2007, 18, 1-7. | 0.8 | 4 |
| 93 | Synthesis of fine Ca-doped BaTiO ₃ powders by solid-state reaction methodâ€”Part I: Mechanical activation of starting materials. <i>Journal of Electroceramics</i> , 2007, 18, 243-250. | 0.8 | 25 |
| 94 | Solid-state synthesis of nano-sized BaTiO ₃ powder with high tetragonality. <i>Journal of Materials Science</i> , 2007, 42, 7093-7099. | 1.7 | 37 |
| 95 | Effects of Excess Barium Ions on Aqueous Barium Titanate Tape Properties. <i>Journal of the American Ceramic Society</i> , 2004, 87, 1066-1071. | 1.9 | 6 |
| 96 | Processing of barium titanate tapes with different binders for MLCC applicationsâ€”Part I: Optimization using design of experiments. <i>Journal of the European Ceramic Society</i> , 2004, 24, 739-752. | 2.8 | 51 |
| 97 | Processing of barium titanate tapes with different binders for MLCC applicationsâ€”Part II: Comparison of the properties. <i>Journal of the European Ceramic Society</i> , 2004, 24, 753-761. | 2.8 | 35 |
| 98 | Short-range dissolutionâ€”precipitation crystallization of hydrothermal barium titanate. <i>Journal of the European Ceramic Society</i> , 2004, 24, 3553-3557. | 2.8 | 38 |
| 99 | Effects on aqueous barium titanate tape properties of passivation of barium ion leaching by using dispersants. <i>Journal of the European Ceramic Society</i> , 2004, 24, 3747-3752. | 2.8 | 9 |
| 100 | Barium ion leaching from barium titanate powder in water. <i>Journal of Materials Science: Materials in Electronics</i> , 2003, 14, 165-169. | 1.1 | 23 |
| 101 | Dielectric constant and mixing model of BaTiO ₃ composite thick films. <i>Materials Research Bulletin</i> , 2003, 38, 765-772. | 2.7 | 103 |
| 102 | Optimization of an Interphase Thickness in Hot-Pressed SiCf/SiC Composites. <i>Ceramic Engineering and Science Proceedings</i> , 0, , 77-82. | 0.1 | 2 |