

Ken Hirota

List of Publications by Year in descending order

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72
docs citations

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times ranked

934
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Hydration on Mechanical Properties of Acylated Hydroxyapatite/Starch Composites. ACS Applied Polymer Materials, 2022, 4, 1666-1674.	4.4	4
2	In Situ Crystallization of Hydroxyapatite on Carboxymethyl Cellulose as a Biomimetic Approach to Biomass-Derived Composite Materials. ACS Omega, 2022, 7, 12127-12137.	3.5	5
3	Nonbrittle Nanocomposite Materials Prepared by Coprecipitation of TEMPO-Oxidized Cellulose Nanofibers and Hydroxyapatite. ACS Sustainable Chemistry and Engineering, 2021, 9, 158-167.	6.7	9
4	Experimental validation of high electrical conductivity in Ni-rich $\text{LaNi}_{1-x}\text{Fe}_x\text{O}_{3-\delta}$ solid solutions ($x=0.4$) in high-temperature oxidizing atmospheres. Materials Advances, 2021, 2, 3257-3263.	5.4	2
5	Enhanced toughness of hydroxyapatite/poly(ethylene terephthalate) composites by immersion in water. Materials Advances, 2021, 2, 5691-5703.	5.4	4
6	Separation of Dansyl-DL-Amino Acids Through Tube Radial Distribution Chromatography by Using a Commercially Available HPLC System with a Capillary Tube Manufactured for GC as a Separation Column. Chromatography, 2021, 42, 67-71.	1.7	2
7	Fabrication of High Density Soft Magnetic Fe-3mass%Si/ferrite Composites with a High Saturation Magnetization Density of 1.5 T. Funtai Oyobi Fummatsumu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2021, 68, 356-366.	0.2	0
8	Consecutive Sample Injection Analysis in Tube Radial Distribution Chromatography. Analytical Sciences, 2021, 37, 1373-1377.	1.6	5
9	Additive Manufacturing of Ceramics Using a Fused Deposition Modeling (FDM)-Type 3D Printer and Their Microwave Sintering and HIP Treatment. Funtai Oyobi Fummatsumu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2020, 67, 431-440.	0.2	1
10	Fabrication of Dense $\text{ZrO}_2\text{-Al}_2\text{O}_3$ Ceramics by Pressure-less Sintering Using Neutralization Co-Precipitated Powders with Cellulose Nano-Fiber. Funtai Oyobi Fummatsumu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2020, 67, 381-390.	0.2	0
11	Co-precipitation of tapioca starch and hydroxyapatite. Effects of phosphorylation of starch on mechanical properties of the composites. Results in Materials, 2019, 3, 100035.	1.8	11
12	Fabrication of Diamond/SiC Composites Using HIP from Mixtures of Diamond and Si Powders. Funtai Oyobi Fummatsumu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2019, 66, 37-45.	0.2	0
13	Preparation of pure and fully dense lanthanum nickelates $\text{La}_{n+1}\text{Ni}_n\text{O}_{3n+1}$ ($n=2, 3$) by post-sintering oxidation process. Journal of the American Ceramic Society, 2019, 102, 7077-7088.	3.8	11
14	Phase Separation and Collection of Annular Flow by Phase Transformation. Analytical Sciences, 2019, 35, 1279-1282.	1.6	7
15	Development of Tube Radial Distribution Chromatography Based on Phase-Separation Multiphase Flow Created via Pressure Loss. Analytical Sciences, 2019, 35, 803-806.	1.6	3
16	Fabrication of Dense $\text{TiB}_2/[\text{ZrO}_2\text{-Al}_2\text{O}_3]$ Composites with Both High Hardness (≈ 20 GPa) and Fracture Toughness (≈ 12 MPa $\cdot\text{m}^{1/2}$) Simultaneously by Pulsed Electric-current Pressure Sintering. Funtai Oyobi Fummatsumu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2019, 66, 339-348.	0.2	0
17	Dependence of Antibacterial Activity of ZnO Powders on Their Physico-chemical Properties. Funtai Oyobi Fummatsumu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2019, 66, 434-441.	0.2	2
18	Preparation of ZnO Powders with Strong Antibacterial Activity under Dark Conditions. Funtai Oyobi Fummatsumu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2018, 65, 316-324.	0.2	5

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19	Strongly-Correlated Electron Behavior and Metal-Insulator Crossover in Ru-Based Oxides with Pyrochlore-Type Structure. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2018, 67, 545-550.	0.2	0
20	Metal-insulator Crossover in Pb-Ru Based Oxides with Pyrochlore-type Structure. <i>Funtai Oyobi Fummtsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2018, 65, 249-254.	0.2	0
21	Crystallisation of hydroxyapatite in phosphorylated poly(vinyl alcohol) as a synthetic route to tough mechanical hybrid materials. <i>Materials Science and Engineering C</i> , 2017, 70, 487-493.	7.3	10
22	Preparation of B-site Mn-doped Spinel Fe(Al _{1-x} Mn _x) ₂ O ₄ (0 ≤ x ≤ 0.9) Ferrite Powders using a Modified Citric Acid Route. <i>Funtai Oyobi Fummtsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2017, 64, 383-391.	0.2	0
23	Fabrication of B ₄ C/TiB ₂ Composite Ceramics Using Pulsed Electric Current Pressure Sintering. <i>Funtai Oyobi Fummtsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2017, 64, 538-546.	0.2	2
24	Fabrication of perovskite-type Ba(Sn _{1-x} Ta _x)O ₃ ceramics and their power factors. <i>Journal of Materials Science</i> , 2015, 50, 476-481.	3.7	2
25	Fabrication of Full-Density Mg-Ferrite/Fe-Ni Permalloy Nanocomposites with a High-Saturation Magnetization Density of 1 T. <i>International Journal of Applied Ceramic Technology</i> , 2012, 9, 1085-1097.	2.1	2
26	Fabrication of Full-Density Mg-Ferrite/Fe-Ni Permalloy Nanocomposites with a High-Saturation Magnetization Density of 1 T. <i>International Journal of Applied Ceramic Technology</i> , 2011, 9, n/a-n/a.	2.1	1
27	Fabrication of (Ca _{1-x} La _x)MnO ₃ Ceramics with a High Relative Density and their Power Factor. <i>Journal of the American Ceramic Society</i> , 2010, 93, 3009-3011.	3.8	24
28	Crystal structure and methane oxidation on perovskite-type (La _{1-x} Nd _x)CoO ₃ synthesized using citric acid. <i>Journal of Materials Science</i> , 2009, 44, 5732-5736.	3.7	11
29	The Study on Carbon Nanofiber (CNF)-Dispersed B ₄ C Composites. <i>International Journal of Applied Ceramic Technology</i> , 2009, 6, 607-616.	2.1	25
30	Methane Oxidation on Perovskite-Type Ca(Mn _{1-x} Ti _x)O ₃ . <i>Journal of the American Ceramic Society</i> , 2008, 91, 308-310.	3.8	10
31	Thermal expansion and mechanical properties of phenolic resin/ZrW ₂ O ₈ composites. <i>Journal of Applied Polymer Science</i> , 2007, 106, 3343-3347.	2.6	66
32	Fabrication of Al-Added TiN Materials by the Combination of Double Self-Propagating High-Temperature Synthesis and Pulsed Electric-Current Pressure Sintering. <i>International Journal of Applied Ceramic Technology</i> , 2007, 4, 175-183.	2.1	1
33	Fabrication of carbon nanofiber(CNF)-dispersed Al ₂ O ₃ composites by pulsed electric-current pressure sintering and their mechanical and electrical properties. <i>Journal of Materials Science</i> , 2007, 42, 4792-4800.	3.7	36
34	Synthesis of perovskite-type (La _{1-x} Cax)CoO ₃ at low temperature using ethylene glycol and citric acid. <i>Journal of Materials Science</i> , 2006, 41, 7978-7982.	3.7	2
35	Hole Doping Effects on Spin-gapped Na ₂ Cu ₂ TeO ₆ via Topochemical Na Deficiency. <i>Journal of the Physical Society of Japan</i> , 2006, 75, 083709.	1.6	12
36	Simultaneous Synthesis and Sintering of TiAl(N) (0) Tj ETQqO O O rgBT /Overlock 10 Ceramic Society, 2004, 87, 2042-2046.	3.8	1

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37	Crystal Structure of Zirconia Prepared with Alumina by Coprecipitation. Journal of the American Ceramic Society, 2002, 85, 721-723.	3.8	32
38	Hot Isostatic Pressing of Chromium Nitrides (Cr_2N and CrN) Prepared by Self-Propagating High-Temperature Synthesis. Journal of the American Ceramic Society, 2001, 84, 2120-2122.	3.8	27
39	Mechanical Properties of CoAl Materials with the Combined Additions of $\text{ZrO}_2(3\text{Y})$ and Al_2O_3 . Journal of the American Ceramic Society, 2001, 84, 2445-2447.	3.8	8
40	Processing and Mechanical Behavior of $\text{CrN/ZrO}_2(2\text{Y})$ Composites. Journal of the American Ceramic Society, 2000, 83, 448-450.	3.8	7
41	Toughening and Strengthening of NiAl with Al_2O_3 by the Addition of $\text{ZrO}_2(3\text{Y})$. Journal of the American Ceramic Society, 2000, 83, 1311-1313.	3.8	11
42	Fabrication of Structural Materials by the Combination of Self-Propagating High-Temperature Synthesis(SHS) and High-Pressure Technology.. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2000, 10, 319-325.	0.0	0
43	Title is missing!. Journal of Materials Synthesis and Processing, 1999, 7, 107-111.	0.3	8
44	Title is missing!. Journal of Materials Science Letters, 1999, 18, 497-499.	0.5	2
45	Hot Isostatic Pressing of Reactive SnO_2 Powder. Journal of the American Ceramic Society, 1999, 82, 216-218.	3.8	17
46	Fabrication and Mechanical Properties of Titanium Boride Ceramics. Journal of the American Ceramic Society, 1999, 82, 1627-1628.	3.8	21
47	Simultaneous Synthesis and Densification of Zr_2N by Self Propagating Combustion under Nitrogen Pressure. International Journal of the Society of Materials Engineering for Resources, 1999, 7, 188-194.	0.1	1
48	Low-Temperature Sintering of Mullite/Yttria-Doped Zirconia Composites in the Mullite-Rich Region. Journal of the American Ceramic Society, 1998, 81, 1050-1052.	3.8	14
49	Novel Synthesis of Mullite Powder with High Surface Area. Journal of the American Ceramic Society, 1998, 81, 1537-1540.	3.8	20
50	Fabrication, Mechanical Properties, and Electrical Conductivity of Co_3O_4 Ceramics. Journal of the American Ceramic Society, 1997, 80, 267-268.	3.8	78
51	Formation and sintering of 8 mol % Y_2O_3 -substituted $\text{La}_2\text{Zr}_2\text{O}_7$ by the hydrazine method. Journal of Materials Science Letters, 1997, 17, 199-201.	0.5	12
52	Title is missing!. Journal of Materials Science, 1997, 32, 583-587.	3.7	7
53	Fabrication and Mechanical Properties of Continuously Graded $\text{MoSi}_2/\text{ZrO}_2(2\text{Y})$ Materials Using Wet-Molding. Journal of the American Ceramic Society, 1997, 80, 2168-2170.	3.8	2
54	Formation and Sintering of TiO_2 (Anatase) Solid Solution in the System $\text{TiO}_2/\text{SiO}_2$. Journal of the American Ceramic Society, 1997, 80, 2749-2753.	3.8	51

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55	Characterization and Sintering of Reactive Cerium(IV) Oxide Powders Prepared by the Hydrazine Method. Journal of the American Ceramic Society, 1997, 80, 3221-3224.	3.8	39
56	Characterization and Sintering of Alkoxy-Derived Vanadium Pentaoxide.. International Journal of the Society of Materials Engineering for Resources, 1997, 5, 9-14.	0.1	1
57	FORMATION AND CHARACTERIZATION OF STOICHIOMETRIC MULLITE (3Al ₂ O ₃ ·2SiO ₂) PREPARED BY THE HYDRAZINE METHOD. Zairyo/Journal of the Society of Materials Science, Japan, 1997, 46, 258-259.	0.2	0
58	Solid solutions of metastable tetragonal ZrO ₂ and Ce ₃ ZrO ₈ in the system ZrO ₂ -CeO ₂ . Journal of Materials Science, 1996, 31, 4945-4949.	3.7	11
59	Formation, Characterization, and Hot Isostatic Pressing of Cr ₂ O ₃ -Doped ZrO ₂ (0,3 mol% Y ₂ O ₃) Prepared by Hydrazine Method. Journal of the American Ceramic Society, 1996, 79, 171-176.	3.8	21
60	IMPROVEMENT OF MAGNETIC AND ELECTRIC PROPERTIES OF LOW-TEMPERATURE SINTERING Mn-Zn FERRITE BY ADDING B ₂ O ₃ . Zairyo/Journal of the Society of Materials Science, Japan, 1996, 45, 275-276.	0.2	0
61	Microstructure, Mechanical Properties, and Ionic Conductivity of ZrO ₂ -based Ceramics Fabricated by Hot Isostic Pressing.. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Cijutsu, 1996, 5, 257-264.	0.0	0
62	Formation and Characterization of Ce ₃ ZrO ₈ Prepared by the Hydrazine Method. Journal of the American Ceramic Society, 1995, 78, 1414-1416.	3.8	5
63	Hot Isostatic Pressing and Characterization of Sol-Gel-Derived Chromium(III) Oxide. Journal of the American Ceramic Society, 1995, 78, 2271-2273.	3.8	54
64	Formation of PbZrO ₃ by Transformation of Cubic ZrO ₂ Solid Solution. Journal of the American Ceramic Society, 1995, 78, 3163-3164.	3.8	10
65	Hot Isostatic Pressing of Composite Powder in the System ZrO ₂ -WSi ₂ . Part 2. Electrical and Mechanical Properties of ZrO ₂ (2mol%Y ₂ O ₃)/WSi ₂ Composites in the ZrO ₂ Rich Region and Their Laminated Materials.. Journal of the Society of Materials Engineering for Resources of Japan, 1995, 8, 36-41.	0.2	0
66	Hot Isostatic Pressing of Composite Powder in the System ZrO ₂ -WSi ₂ . Part 1. Microstructure and Mechanical Properties of ZrO ₂ (2mol% Y ₂ O ₃)-Reinforced WSi ₂ Composites.. Journal of the Society of Materials Engineering for Resources of Japan, 1995, 8, 30-35.	0.2	0
67	Formation of Zirconia Solid Solutions Containing Alumina Prepared by New Preparation Method. Journal of the American Ceramic Society, 1994, 77, 1391-1395.	3.8	79
68	Formation of Alumina/Zirconia (3 mol% Ytria) Composite Powders Prepared by the Hydrazine Methods. Journal of the American Ceramic Society, 1994, 77, 2207-2208.	3.8	17
69	Formation and Sintering of Ytria-Doped Tetragonal Zirconia with 50 mol% Alumina Prepared by the Hydrazine Method. Journal of the American Ceramic Society, 1994, 77, 1694-1696.	3.8	20
70	Mechanical Properties of Hot Isostatically Pressed Zirconia-Toughened Alumina Ceramics Prepared from Coprecipitated Powders. Journal of the American Ceramic Society, 1993, 76, 2677-2680.	3.8	26
71	Simultaneous Synthesis and Sintering of Dense B ₄ C/CNF Composites using a Pulsed Electric-Current Pressure Sintering and Evaluation of Their Thermal Properties. , 0, , 279-291.		0