

Soshu Kirihara

List of Publications by Year in descending order

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118
papers

1,261
citations

394421

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143
all docs

143
docs citations

143
times ranked

669
citing authors

#	ARTICLE	IF	CITATIONS
1	Stereolithographic additive manufacturing of acoustic devices with spatially modulated cavities. International Journal of Applied Ceramic Technology, 2022, 19, 949-956.	2.1	1
2	Stereolithographic Additive Manufacturing of Solid Electrolyte Sheets with Micro Emboss Patterns and Microstructural Densifications through Pressing and Heating Treatments. Journal of Smart Processing, 2021, 10, 279-283.	0.1	1
3	ã,ãffãf^ãfªã,çã®%ã®šãCE-ã,ãf«ã,³ãf«ã,çè£½ãººã¥æ-ã†ã® á...%øéÇã½çã,çãf†ã,£ãf†ã,£ãf-ãf»ãfžãf«ãf¥ãf•ã,ã†ãfãf£ãfªãf³ã,ªãf†ãf³ãf%ãf©ã,ãf^æ½ãæS«éã,ææ%ãªãã,«ã»ã½“é»è§£è³ãã®ã...%øéÇã½çã*ã,çãf«ãf¥ãf«ã, ãfè£½éCE-ãã®ã¿æç””ææè”Ž. Journal of Smart Processing, 2021, 10, 279-283.	0.1	1
4	ãf†ãf³ãf%ãf©ã,ãf^æ½ãæS«éã,ææ%ãªãã,«ã»ã½“é»è§£è³ãã®ã...%øéÇã½çã*ã,çãf«ãf¥ãf«ã, ãfè£½éCE-ãã®ã¿æç””ææè”Ž. Journal of Smart Processing, 2021, 10, 279-283.	0.1	1
5	Stereolithographic additive manufacturing of ceramic components with functionally modulated structures. Open Ceramics, 2021, 5, 100068.	2.0	4
6	Stereolithographic Additive Manufacturing of Zirconia Electrodes with Dendritic Patterns for Aluminum Smelting. Applied Sciences (Switzerland), 2021, 11, 8168.	2.5	4
7	Systematic Compounding of Ceramic Pastes in Stereolithographic Additive Manufacturing. Materials, 2021, 14, 7090.	2.9	5
8	Active Contributions of Additive Manufacturing for Sustainable Development Goals. Journal of Smart Processing, 2021, 10, 152-158.	0.1	0
9	Stereolithographic Additive Manufacturing of Silicon Carbide Components. Journal of Smart Processing, 2020, 9, 185-189.	0.1	2
10	Laser Scanning Stereolithography. Springer Series in Materials Science, 2020, , 305-312.	0.6	3
11	Stereolithographic Additive Manufacturing of Artificial Tree Models Using Sawdust Woodchips Dispersed Resin Paste. Journal of Smart Processing, 2020, 9, 190-193.	0.1	1
12	Coordination Number Modulations of Spatial Lattice Structures by Stereolithographic Additive Manufacturing. Journal of Smart Processing, 2020, 9, 174-179.	0.1	0
13	Stereolithographic Additive Manufacturing of Fluid Channels Bundles with Graded Aperture Sizes in Thermoacoustic Converters. Journal of Smart Processing, 2020, 9, 194-198.	0.1	0
14	Three-Dimensional Printing Process. , 2019, , 267-284.		1
15	Structural Dimension Control in Smart Additive Manufacturing. Journal of Smart Processing, 2019, 8, 124-131.	0.1	2
16	Fabrication of Alumina Microlattice Structures by Using Ultraviolet Laser Lithography. Journal of Smart Processing, 2019, 8, 147-150.	0.1	0
17	Three Dimensional Smart Processing by Ultra Violet Laser Lithography of Ceramic Additive Manufacturing. Materials Science Forum, 2018, 941, 2196-2199.	0.3	2
18	Materials Tectonics Technology and Stereolithographic Additive Manufacturing. Journal of Smart Processing, 2018, 7, 223-228.	0.1	3

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19	Ultraviolet Laser Lithography of Titania Photonic Crystals for Terahertz-Wave Modulation. <i>Materials</i> , 2018, 11, 835.	2.9	15
20	Development of Photonic Crystal Resonators for Terahertz Wave Sensing by Using Nanoparticle Stereolithography. , 2018, , 635-636.		0
21	Stereolithographic Additive Manufacturing of Fluctuated Patterns for Streamline Modulations in Water Flows. <i>Journal of Smart Processing</i> , 2018, 7, 233-237.	0.1	2
22	Fabrication of Bio-ceramic Implants by Stereolithographic Additive Manufacturing. <i>Materia Japan</i> , 2018, 57, 155-158.	0.1	1
23	Design and Fabrication of Sound Absorption Structures for Thermal Spraying by Using Stereolithographic Additive Manufacturing. <i>Journal of Smart Processing</i> , 2018, 7, 238-242.	0.1	1
24	Stereolithographic Additive Manufacturing of Functionally Modulated Components. <i>Journal of Smart Processing</i> , 2017, 6, 22-27.	0.1	1
25	Process Visualization of Thermal Nanoparticle Spraying Using Micro Composite Fragments. <i>Yosetsu Gakkai Ronbunshu/Quarterly Journal of the Japan Welding Society</i> , 2017, 35, 1s-4s.	0.5	0
26	Microstructural Control of Thermal Nanoparticle Spraying Using Micro Composite Fragments. <i>Journal of Smart Processing</i> , 2017, 6, 46-49.	0.1	0
27	Design and fabrication of micro close end tubular SOFC with internal conduction layer. <i>Journal of the Ceramic Society of Japan</i> , 2016, 124, 360-364.	1.1	4
28	Additive manufacturing of ceramic components using laser scanning stereolithography. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2016, 60, 697-702.	2.5	30
29	Stereolithographic Additive Manufacturing of Solid Electrolyte Ceramic Sheets with Micro Emboss Pattern for All Solid Battery Application. <i>Additional Conferences (Device Packaging HiTEC HiTEN & CICMT)</i> , 2016, 2016, 000001-000005.	0.2	0
30	Stereolithographic Additive Manufacturing of Bulky Ceramic Components with Functionally Geometric Micropattern. <i>Additional Conferences (Device Packaging HiTEC HiTEN & CICMT)</i> , 2016, 2016, 000001-000005.	0.2	0
31	Stereolithography of ceramic components: fabrication of photonic crystals with diamond structures for terahertz wave modulation. <i>Journal of the Ceramic Society of Japan</i> , 2015, 123, 816-822.	1.1	14
32	Terahertz Transmission Properties of a Disorderly Piled Hexagonal ZnO Multi-Layer: FDTD Simulations and Stereolithography Fabrication. <i>Journal of Computational and Theoretical Nanoscience</i> , 2015, 12, 1017-1022.	0.4	1
33	Three-Dimensional Stereolithography of Alumina Photonic Crystals for Terahertz Wave Localization. <i>International Journal of Applied Ceramic Technology</i> , 2015, 12, 32-37.	2.1	22
34	Micro Stereolithography by Using Fine Particles Dispersed Pastes. <i>Journal of the Japan Society for Technology of Plasticity</i> , 2015, 56, 107-111.	0.3	2
35	Effective Injection of Ceramics Nanoparticle Pastes into Plasma Spray for Speedy Layer Formation. <i>Yosetsu Gakkai Ronbunshu/Quarterly Journal of the Japan Welding Society</i> , 2015, 33, 148s-151s.	0.5	5
36	Visualization of Nanoparticles Behavior Introduced into Gas Flame Spraying. <i>Yosetsu Gakkai Ronbunshu/Quarterly Journal of the Japan Welding Society</i> , 2015, 33, 49s-52s.	0.5	3

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37	Stereolithographic Additive Manufacturing of Diamond Photonic Crystal Composed of Titania and Alumina Micro Lattices. Additional Conferences (Device Packaging HiTEC HiTEN & CICMT), 2015, 2015, 000314-000321.	0.2	0
38	CICMT 2014. Yosetsu Gakkai Shi/Journal of the Japan Welding Society, 2014, 83, 503-504.	0.1	0
39	Smart Processing of Functional Structures by Using Stereolithographic 3D Printing. Journal of Smart Processing, 2014, 3, 182-190.	0.1	2
40	Stereolithographic 3D Printing by Using Functional Ceramics Particles. Journal of the Society of Powder Technology, Japan, 2014, 51, 519-526.	0.1	2
41	Fabrication of Photonic Crystals by Stereolithography Technique. , 2013, , 195-211.		2
42	Creation of Titania Artificial Interfaces with Geometric Patterns by Using Microstereolithography and Aqueous Solution Techniques. International Journal of Applied Ceramic Technology, 2013, 10, 468-473.	2.1	3
43	Freeform Fabrication of Magnetophotonic Crystals with Diamond Lattices of Oxide and Metallic Glasses for Terahertz Wave Control by Micro Patterning Stereolithography and Low Temperature Sintering. Micromachines, 2013, 4, 149-156.	2.9	7
44	MS&T' 12. Yosetsu Gakkai Shi/Journal of the Japan Welding Society, 2013, 82, 205-207.	0.1	0
45	Fabrication of Diamond Photonic Crystals with Oxide and Metallic Glasses Lattices for Terahertz Wave Control by Micro Patterning Stereolithography. Additional Conferences (Device Packaging HiTEC) Tj ETQq1 1 0.284314.0gBT /Ov	0.2	0
46	Development of photonic crystal resonators for terahertz wave sensing by using nanoparticle stereolithography. , 2012, , 648-650.		0
47	Fabrication of Metallodielectric Photonic Crystals to Exhibit Perfect Millimeter Wave Band Gaps. International Journal of Applied Ceramic Technology, 2012, 9, 893-901.	2.1	1
48	Fabrication of Oxide Ceramics Dendrites for Porous Electrodes by Using Stereolithography. Additional Conferences (Device Packaging HiTEC HiTEN & CICMT), 2012, 2012, 000152-000157.	0.2	2
49	åö:œæ<æ•£ã,'â^©ç''ã-ãÿè»1/2é†'â±žã«ã-¾ã™ã,çj-è³ããf•ãf ©ã,-ã,ããf«ãf'ã,ããf¼ããf<ãf³ã,°. Journal of Smart Processing, 2012, 1, 18		
50	Fabrication of Photonic Crystals to Control Terahertz Waves by Micro Patterning Stereolithography and Dielectric Nanoparticle Assembly. Journal of Smart Processing, 2012, 1, 161-166.	0.1	2
51	Creation of Artificial Bone Implants from Photo Polymerized Slurry with Bio-ceramics Fine Particles. Yosetsu Gakkai Shi/Journal of the Japan Welding Society, 2012, 81, 513-517.	0.1	0
52	Creation of Titania Artificial Interfaces with Geometric Patterns by Using Micro Stereolithography and Aqueous Solution Techniques. Additional Conferences (Device Packaging HiTEC HiTEN & CICMT), 2012, 2012, 000117-000122.	0.2	0
53	Accurate Fabrication of Hydroxyapatite Bone Models with Porous Scaffold Structures by Using Stereolithography. IOP Conference Series: Materials Science and Engineering, 2011, 18, 072017.	0.6	12
54	Fabrications of Terahertz Wave Resonators in Micro Liquid Cells Introduced into Alumina Photonic Crystals with Diamond Structures. ISRN Materials Science, 2011, 2011, 1-8.	1.0	3

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55	Process Development of Thermal Nanoparticles Spraying. Yosetsu Gakkai Shi/Journal of the Japan Welding Society, 2011, 80, 588-591.	0.1	5
56	Zinc Oxide Modeling to Create Semiconductor Dendrites by Using Micro Stereolithography. Additional Conferences (Device Packaging HiTEC HiTEN & CICMT), 2011, 2011, 000193-000198.	0.2	0
57	Combustion synthesis of single-phase $\hat{\Gamma}$ -sialons ($z=2\hat{\Gamma}^4$). Journal of the European Ceramic Society, 2010, 30, 1925-1930.	5.7	26
58	Three-Dimensional Material Tectonics for Electromagnetic Wave Control by Using Micro-Stereolithography. Ferroelectrics, 2009, 387, 102-111.	0.6	17
59	Terahertz Wave Properties of Ceramic Photonic Crystals with Graded Structure Fabricated by Using Micro-Stereolithography. Materials Science Forum, 2009, 631-632, 299-304.	0.3	1
60	Freeform fabrication of superalloy objects by 3D micro welding. Materials & Design, 2009, 30, 1093-1097.	5.1	42
61	Terahertz Wave Control Using Ceramic Photonic Crystals with a Diamond Structure Including Plane Defects Fabricated by Microstereolithography. International Journal of Applied Ceramic Technology, 2009, 6, 41-44.	2.1	38
62	Smart processing in materials tectonics: Fabrication of photonic crystals for terahertz wave control by using micro-stereolithography. Tsinghua Science and Technology, 2009, 14, 160-163.	6.1	8
63	Enhanced thermal conductivity of polymer composites filled with three-dimensional brushlike AlN nanowhiskers. Applied Physics Letters, 2009, 95, .	3.3	92
64	Microwave Emission from Metal Photonic Crystals Fabricated by using Stereolithography. Ferroelectrics, 2009, 388, 23-30.	0.6	8
65	Localization Behavior of Microwaves in Three-Dimensional Menger Sponge Fractals Fabricated from Metallodielectric Cu/Polyester Media. Science of Advanced Materials, 2009, 1, 175-181.	0.7	6
66	Structural Joining of Ceramics Nanoparticles: Development of Photonic Crystals for Terahertz Wave Control by Using Micro Stereolithography. KONA Powder and Particle Journal, 2009, 27, 107-118.	1.7	5
67	Diamond Photonic Crystals with Alumina Micro Lattices. KONA Powder and Particle Journal, 2009, 27, 2-2.	1.7	0
68	Fabrication and Characterization of Three-Dimensional $ZrO_{2/3}$ -Toughened $Al_{2/3}O_{3/3}$ Ceramic Microdevices. International Journal of Applied Ceramic Technology, 2008, 5, 353-359.	2.1	17
69	Microfabrication of Three-Dimensional Photonic Crystals of $SiO_{2/2}$ - $Al_{2/2}O_{3/3}$ Ceramics and Their Terahertz Wave Properties. International Journal of Applied Ceramic Technology, 2008, 5, 228-233.	2.1	6
70	Fabrication of Metallodielectric Photonic Crystals with a Diamond Structure and their Microwave Properties. Journal of the American Ceramic Society, 2008, 91, 1194-1198.	3.8	5
71	Stereolithographic Fabrication and Microwave Properties of 1D Tunable Photonic Crystals Composed of YIG and Alumina Plates in Resin. Journal of the American Ceramic Society, 2008, 91, 2195-2200.	3.8	3
72	Freeform fabrication of Ti-Al alloys by 3D micro-welding. Intermetallics, 2008, 16, 1245-1249.	3.9	21

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73	Terahertz wave localization at a three-dimensional ceramic fractal cavity in photonic crystals. Journal of Applied Physics, 2008, 103, 103106.	2.5	27
74	Terahertz wave properties of alumina microphotonic crystals with a diamond structure. Journal of Materials Research, 2008, 23, 1036-1041.	2.6	30
75	Static tuning band gaps of three-dimensional photonic crystals in subterahertz frequencies. Applied Physics Letters, 2008, 92, 183504.	3.3	14
76	Combustion synthesis of rod-like AlN nanoparticles. Journal of the Ceramic Society of Japan, 2008, 116, 975-979.	1.1	13
77	Combustion Synthesis and Sintering of $\hat{\Gamma}^2$ -Sialon Ceramics ($z = 2$). Zairyo/Journal of the Society of Materials Science, Japan, 2008, 57, 1248-1252.	0.2	5
78	Fabrication of Photonic Fractals for Millimeter Wave Control by Using Ceramic Nanoparticles. Hosokawa Powder Technology Foundation ANNUAL REPORT, 2008, 16, 15-20.	0.0	0
79	Development of Freeform Fabrication of Metals by Three Dimensional Micro-Welding. Solid State Phenomena, 2007, 127, 189-194.	0.3	8
80	Diamond-Structure Photonic Crystals Composed of Ceramic Spheres in Resin and Their Microwave Properties. Japanese Journal of Applied Physics, 2007, 46, 7117-7121.	1.5	0
81	Three-dimensional microphotonic crystals of ZrO ₂ toughened Al ₂ O ₃ for terahertz wave applications. Applied Physics Letters, 2007, 91, 153507.	3.3	28
82	Analysis of Electromagnetic Response of 3-D Dielectric Fractals of Menger Sponge Type. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 1305-1313.	4.6	10
83	Fabrication of Three-Dimensional Micro Photonic Crystals of Resin-Incorporating TiO ₂ Particles and their Terahertz Wave Properties. Journal of the American Ceramic Society, 2007, 90, 92-96.	3.8	48
84	Fabrication and Microwave Properties of Three-Dimensional Photonic Crystals With a Diamond Structure Composed of Ceramic Spheres in Resin. Journal of the American Ceramic Society, 2007, 90, 1112-1115.	3.8	9
85	Fabrication and Measurement of Micro Three-Dimensional Photonic Crystals of SiO ₂ Ceramic for Terahertz Wave Applications. Journal of the American Ceramic Society, 2007, 90, 2078-2081.	3.8	54
86	Localization of Electromagnetic Wave in 3D Periodic and Fractal Structures. Chemistry Letters, 2006, 35, 342-347.	1.3	8
87	Microwave Absorption in Photonic Crystals Composed of SiC/Resin with a Diamond Structure. Journal of the American Ceramic Society, 2006, 89, 2492-2495.	3.8	18
88	Strong localization of microwave in photonic fractals with Menger-sponge structure. Journal of the European Ceramic Society, 2006, 26, 1861-1864.	5.7	18
89	Fabrication of three-dimensional ceramic photonic crystals and their electromagnetic properties. Journal of the European Ceramic Society, 2006, 26, 2195-2198.	5.7	15
90	Selective Transmission of Electromagnetic Wave by Using Diamond Photonic Crystals with Graded Lattice Spacing. Advances in Science and Technology, 2006, 45, 1139.	0.2	0

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91	Strong Localization of Electromagnetic Wave in Ceramic/Epoxy Photonic Fractals with Menger-Sponge Structure. Materials Science Forum, 2006, 512, 227-232.	0.3	1
92	Simulation and Experimental Study of Electromagnetic Wave Localization in 3D Dielectric Fractal Structures. , 2006, , .		1
93	III : Development on Electromagnetic-Wave Functional Materials of Ceramics by a New Process. Zairyo/Journal of the Society of Materials Science, Japan, 2006, 55, 1051-1055.	0.2	1
94	Fabrication of TiO ₂ -SiO ₂ Photonic Crystals with Diamond Structure. Journal of the American Ceramic Society, 2005, 88, 1461-1464.	3.8	44
95	Fabrication of Photonic Crystal with a Diamond Structure Having an Air Cavity Defect and its Microwave Properties. Journal of the American Ceramic Society, 2005, 88, 2480-2484.	3.8	8
96	SMART PROCESSING DEVELOPMENT OF NOVEL MATERIALS FOR ELECTROMAGNETIC WAVE CONTROL. , 2005, , 3-9.		0
97	A New Functional Material; Photonic Fractal. Materials Science Forum, 2005, 492-493, 77-84.	0.3	3
98	Fabrication of Ceramic Photonic Crystals with Diamond Structure for Microwave Applications. Journal of the American Ceramic Society, 2004, 87, 598-601.	3.8	23
99	Electromagnetic wave control of ceramic/resin photonic crystals with diamond structure. Science and Technology of Advanced Materials, 2004, 5, 225-230.	6.1	19
100	Localization of Electromagnetic Waves in Three-Dimensional Fractal Cavities. Physical Review Letters, 2004, 92, 093902.	7.8	97
101	Smart Processing Development of Photonic Crystals and Fractals. International Journal of Applied Ceramic Technology, 2004, 1, 40-48.	2.1	24
102	Freeform Fabrication of Photonic Crystals for Tera-hertz Wave Control. Hosokawa Powder Technology Foundation ANNUAL REPORT, 2004, 12, 131-135.	0.0	0
103	Band Gap Modification of Diamond Photonic Crystals by Changing the Volume Fraction of the Dielectric Lattice. Journal of the American Ceramic Society, 2003, 86, 1691-1694.	3.8	22
104	Electromagnetic properties of photonic crystals with diamond structure containing defects. Journal of Materials Research, 2003, 18, 2214-2220.	2.6	5
105	Electromagnetic Wave Diffractions in Ceramic/Polymer Photonic Crystals with Three-Dimensional Diamond Structure. Journal of the Ceramic Society of Japan, 2003, 111, 471-478.	1.3	8
106	Fabrication of Polymer Photonic Crystals by Stereolithography. Kobunshi, 2003, 52, 769-769.	0.0	0
107	Padding, Welding and Freeform Fabrication of Nickel Aluminide Intermetallic Compound by Reactive Rapid Prototyping Process. Materials Transactions, 2002, 43, 1146-1152.	1.2	5
108	Fabrication of electromagnetic crystals with a complete diamond structure by stereolithography. Solid State Communications, 2002, 121, 435-439.	1.9	97

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109	Control of microwave emission from electromagnetic crystals by lattice modifications. Solid State Communications, 2002, 124, 135-139.	1.9	57
110	Fabrication of Ceramic-Polymer Photonic Crystals by Stereolithography and Their Microwave Properties. Journal of the American Ceramic Society, 2002, 85, 1369-1371.	3.8	34
111	Development of WC-Co/SUS304 Functionally Graded Materials by Using Three Dimensional Micro Welding. Materials Science Forum, 0, 631-632, 265-270.	0.3	0
112	Millimeter Wave Control Using TiO ₂ Photonic Crystal with Diamond Structure Fabricated by Micro-Stereolithography. Materials Science Forum, 0, 631-632, 293-298.	0.3	1
113	Fabrication of Metal Photonic Crystals with Graded Lattice Spacing by Using Micro-Stereolithography. Materials Science Forum, 0, 631-632, 287-292.	0.3	5
114	Freeform Fabrication of Alumina Dental-Crown Models by Using Stereolithography. Ceramic Engineering and Science Proceedings, 0, , 131-138.	0.1	2
115	Smart Processing for Ceramics Structure Tectonics: Fabrication of Dielectric Micro Patterns for Artificial Photosynthesis in Terahertz Wave Regions by Using Stereolithography. Advances in Science and Technology, 0, , .	0.2	0
116	Smart Processing of Micro Photonic Crystals for Terahertz Wave Control - Freeform Fabrication by Stereolithographic Technique -. Materials Science Forum, 0, 706-709, 1925-1930.	0.3	1
117	Geometric Modeling of Ceramics Dendrites to Modulate Energy and Material Flows by Using Stereolithography. Materials Science Forum, 0, 783-786, 2439-2444.	0.3	3
118	Fabrication of Ceramic/Epoxy Photonic Crystals by Stereolithography. Ceramic Engineering and Science Proceedings, 0, , 13-17.	0.1	3