Takayuki Komatsu

List of Publications by Year
in descending order

212 papers	6,929 citations	76031 42 h-index	97045 71 g-index
215 all docs	215 docs citations	215 times ranked	3542 citing authors

#	Article	IF	Citations
1	Formation of highly dispersed tin nanoparticles in amorphous silicates for sodium ion battery anode. Journal of Physics and Chemistry of Solids, 2022, 161, 110377.	1.9	7
2	Structural role of Nb2O5 in glass-forming ability, electronic polarizability and nanocrystallization in glasses: A review. Journal of Non-Crystalline Solids, 2022, 581, 121414.	1.5	25
3	Nanoscale composition fluctuations and crystallization process: Case study in Li₂Oâ€“SiO₂â€based glasses. International Journal of Applied Glass Science, 2022, 13, 591-609.	1.0	5
4	Stressâ€induced crystal axis spiral rotation in multiferroic Î²'â€Gd₂(MoO₄)₃ observed only in glass crystallization. International Journal of Applied Glass Science, 2021, 12, 46-64.	1.0	4
5	Electronic polarizability in silicate glasses by comparison of experimental and theoretical optical basicities. International Journal of Applied Glass Science, 2021, 12, 424-442.	1.0	12
6	Enhanced thermal stability and crystallization of nonlinear optical RExBi2-xZnB2O7 in RE2O3-added bismuth zinc borate glasses (RE: Eu, Gd, Er). Journal of Non-Crystalline Solids, 2021, 559, 120684.	1.5	3
7	Synthesis and Na+ Ion Conductivity of Stoichiometric Na3Zr2Si2PO12 by Liquid-Phase Sintering with NaPO3 Glass. Materials, 2021, 14, 3790.	1.3	23
8	Vitrification of maricite NaFePO4 crystal by laser irradiation and enhanced sodium ion battery performance. Journal of Alloys and Compounds, 2021, 885, 160928.	2.8	10
9	Phase selective crystallization of Na₂Mn_{0.9}Fe_{0.1}P₂O₇ glass by laser irradiation. International Journal of Applied Glass Science, 2020, 11, 112-119.	1.0	7
10	Features of electronic polarizability and approach to unique properties in tellurite glasses. International Journal of Applied Glass Science, 2020, 11, 253-271.	1.0	18
11	A review: A new insight for electronic polarizability and chemical bond strength in Bi2O3-based glasses. Journal of Non-Crystalline Solids, 2020, 550, 120365.	1.5	17
12	Laserâ€induced modification and external pressureless joining Na₂FeP₂O₇ on solid electrolyte. International Journal of Ceramic Engineering & Science, 2020, 2, 332-341.	0.5	7
13	Structural origin of high-density Gd2O3â€“MoO3â€“B2O3 glass and low-density Î²â€²-Gd2(MoO4)3 crystal: a study conducted using high-energy x-ray diffraction and EXAFS at high temperatures. Journal of Physics Condensed Matter, 2020, 32, 055705.	0.7	4
14	Enhanced rate capabilities in a glass-ceramic-derived sodium all-solid-state battery. Scientific Reports, 2020, 10, 9453.	1.6	41
15	Crystallization of the Na2FexNi1âˆ’xP2O7 Glass and Ability of Cathode for Sodium-Ion Batteries. Frontiers in Materials, 2020, 7, .	1.2	14
16	Crystallization data-driven proposal on distribution model of composition fluctuations in structure of oxide glasses. Journal of Solid State Chemistry, 2020, 288, 121379.	1.4	13
17	Pressureless allâ€solidâ€state sodiumâ€ion battery consisting of sodium iron pyrophosphate glassâ€ceramic cathode and Î²â€³â€alumina solid electrolyte composite. Journal of the American Ceramic Society, 2019, 102, 6658-6667.	1.9	39
18	Laser patterning and growth mechanism of orientation designed crystals in oxide glasses: A review. Journal of Solid State Chemistry, 2019, 275, 210-222.	1.4	39

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19	Surface crystallization and gas bubble formation during conventional heat treatment in Na2MnP2O7 glass. Journal of Non-Crystalline Solids, 2019, 510, 36-41.	1.5	6
20	Crystallization behavior of Î²â€²-Gd2(MoO4)3 and Gd4Mo7O27 in composition designed Gd2O3-MoO3-B2O3 glasses. Journal of Non-Crystalline Solids, 2018, 498, 437-442.	1.5	4
21	Updated definition of glass-ceramics. Journal of Non-Crystalline Solids, 2018, 501, 3-10.	1.5	248
22	Crystallization behavior and electrochemical properties of Na2FeyMn1âˆ’yP2O7 glass. Journal of Non-Crystalline Solids, 2018, 501, 153-158.	1.5	14
23	Correlation between thermal expansion coefficient and interionic interaction parameter in ZnOâ€“Bi₂O₃â€“B₂O₃ glasses. Journal of the Ceramic Society of Japan, 2018, 126, 8-15.	0.5	16
24	Simultaneous surface and bulk crystallization of Bi_{1.5}ZnNb_{1.5}O₇â€type pyrochlores and related crystals in glasses. International Journal of Applied Glass Science, 2018, 9, 296-304.	1.0	4
25	Control of self-powdering phenomenon in ferroelastic Î²â€²-Gd2(MoO4)3 crystallization in boro-tellurite glasses. Journal of Non-Crystalline Solids, 2018, 501, 85-92.	1.5	4
26	Photoluminescence features of new Eu³⁺ -doped Gd₄Mo₇O₂₇ phosphors synthesized using glass crystallization technique. Journal of Asian Ceramic Societies, 2018, 6, 314-321.	1.0	6
27	Formation of bismuth metal in bismuth borate glass by reductive heat treatment and its electrochemical property as anode in lithium ion battery. Journal of the Ceramic Society of Japan, 2018, 126, 820-825.	0.5	13
28	Surface crystallization tendency of Na₂FeP₂O₇ glass. Journal of the Ceramic Society of Japan, 2018, 126, 563-567.	0.5	11
29	Formation of transparent glass-ceramics including thermodynamically metastable cubic phase in Na₂Mn_{0.5}Fe_{0.5}SiO₄ glass. Journal of the Ceramic Society of Japan, 2018, 126, 421-423.	0.5	2
30	Laser patterning of oriented LiNbO₃ crystal particle arrays in NiOâ€doped lithium niobium silicate glasses. International Journal of Applied Glass Science, 2018, 9, 518-529.	1.0	22
31	Nano-crystallization and highly oriented crystal line patterning of Sm3+-doped Bi2GeO5 and Bi4Ge3O12 in bismuth germanate-based glasses. Journal of Non-Crystalline Solids, 2017, 459, 116-122.	1.5	12
32	Unique crystallization behavior of sodium manganese pyrophosphate Na₂MnP₂O₇ glass and its electrochemical properties. Journal of Asian Ceramic Societies, 2017, 5, 209-215.	1.0	19
33	Formation of nonlinear optical Na₂TeW₂O₉ crystals and laser irradiation in tungstenâ€“tellurite glasses. Journal of Asian Ceramic Societies, 2017, 5, 489-493.	1.0	5
34	Nucleation and Crystal Growth in Laser-Patterned Lines in Glasses. Frontiers in Materials, 2016, 3, .	1.2	14
35	Group optical basicity of sodium borate and sodium silicate glasses. Journal of Commonwealth Law and Legal Education, 2016, 57, 285-290.	0.2	1
36	Dielectric properties of glass-ceramics with Ba1âˆ’xY2x/3Nb2O6 nanocrystals and laser patterning of highly oriented crystal lines. Journal of Non-Crystalline Solids, 2016, 452, 74-81.	1.5	7

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37	Cathode properties of sodium iron phosphate glass for sodium ion batteries. Journal of Non-Crystalline Solids, 2016, 450, 109-115.	1.5	45
38	Unique thermal conductivity, Young’s modulus and local structure of 72SnO–28P₂O₅ glass. Journal of the Ceramic Society of Japan, 2016, 124, 606-612.	0.5	8
39	Long afterglow in hexagonal SrAl2O4:Eu2+, Dy3+ synthesized by crystallization of glass and solidification of supercooled melts. Journal of Luminescence, 2016, 177, 286-289.	1.5	15
40	Electrochemical performance as cathode of lithium iron silicate, borate and phosphate glasses with different Fe2+ fractions. Journal of Non-Crystalline Solids, 2016, 436, 51-57.	1.5	13
41	Electrochemical performance of composites of spinel-type LiFe1^|^minus;xMnxSiO4 nanocrystals and glassy phase synthesized by quenching of melts. Journal of the Ceramic Society of Japan, 2015, 123, 26-32.	0.5	5
42	TEM analysis for crystal structure of metastable BiBO3 (II) phase formed in glass by laser-induced crystallization. Journal of the European Ceramic Society, 2015, 35, 2541-2546.	2.8	15
43	Laser Patterning of Non-Linear Optical Bi2ZnB2O7 Crystal Lines in Glass. Frontiers in Materials, 2015, 2, .	1.2	9
44	Self-organized homo-epitaxial growth in nonlinear optical BaAlBO3F2 crystal crossing lines patterned by laser in glass. Optical Materials, 2015, 49, 182-189.	1.7	11
45	Design and control of crystallization in oxide glasses. Journal of Non-Crystalline Solids, 2015, 428, 156-175.	1.5	118
46	Structure of MoO3â€“WO3â€“La2O3â€“B2O3 glasses and crystallization of LaMo1â^'xWxBO6 solid solutions. Journal of Non-Crystalline Solids, 2015, 429, 171-177.	1.5	17
47	Morphology and orientation of Î²-BaB2O4 crystals patterned by laser in the inside of samarium barium borate glass. Journal of Solid State Chemistry, 2015, 221, 145-151.	1.4	20
48	Electrical conductivity of Na2Oâ€“Nb2O5â€“P2O5 glass and fabrication of glassâ€“ceramic composites with NASICON type Na3Zr2Si2PO12. Solid State Ionics, 2015, 269, 19-23.	1.3	53
49	Effects of WO3 substitution on crystallization behavior and laser patterning in Gd2O3â€“MoO3â€“B2O3 glasses. Journal of Non-Crystalline Solids, 2014, 383, 86-90.	1.5	11
50	Unique crystal growth with crystal axis rotation in multi-ferroic Î²â€²-(Sm,Gd)2(MoO4)3 narrow lines patterned by lasers in glass. Journal of Physics and Chemistry of Solids, 2014, 75, 954-958.	1.9	15
51	Electronic polarizability and interaction parameter of gadolinium tungsten borate glasses with high WO3 content. Journal of Solid State Chemistry, 2014, 220, 191-197.	1.4	25
52	Formation Behavior and High Electrical Conductivity of Metastable Lithium Iron Silicate Crystals in Rapid Quenching of <scp><scp>Li</scp></scp>₂<scp><scp>O</scp></scp>â€“<scp><scp>Fe</scp></scp>₂<scp><scp>O</scp> Melts. Journal of the American Ceramic Society, 2014, 97, 835-842.	1.9	9
53	Synthesis and photocatalytic properties of Î±-ZnWO4 nanocrystals in tungsten zinc borate glasses. Journal of Asian Ceramic Societies, 2014, 2, 253-257.	1.0	17
54	Crystallization behavior of sodium iron phosphate glass Na2â^'Fe1+0.5P2O7 for sodium ion batteries. Journal of Non-Crystalline Solids, 2014, 404, 26-31.	1.5	53

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55	Synthesis and morphology of metal Sn particles in SnOâ€“P2O5 glasses and their battery anode performance. Journal of Non-Crystalline Solids, 2014, 402, 153-159.	1.5	25
56	Self-powdering phenomenon of Î²â€²-RE₂(MoO₄)₃ formed in crystallization of glasses and its mechanism (RE: Gd, Sm, Dy). Journal of the Ceramic Society of Japan, 2014, 122, 777-783.	0.5	7
57	Optical Active Nanoâ€Glassâ€Ceramics. International Journal of Applied Glass Science, 2013, 4, 125-135.	1.0	44
58	Coexistence of nano-scale phase separation and micro-scale surface crystallization in Gd2O3â€“WO3â€“B2O3 glasses. Journal of Non-Crystalline Solids, 2013, 381, 17-22.	1.5	14
59	Tin-phosphate glass anode for sodium ion batteries. APL Materials, 2013, 1, .	2.2	31
60	Birefringence imaging and orientation of laser patterned Î²-BaB2O4 crystals with bending and curved shapes in glass. Journal of Solid State Chemistry, 2013, 207, 6-12.	1.4	27
61	Triclinic Na2â€™Fe1+/2P2O7/C glass-ceramics with high current density performance for sodium ion battery. Journal of Power Sources, 2013, 227, 31-34.	4.0	53
62	Laser patterning and characterization of optical active crystals in glasses. Journal of Asian Ceramic Societies, 2013, 1, 9-16.	1.0	42
63	Optical basicity and chemical bonding of Bi2O3 containing glasses. Journal of Non-Crystalline Solids, 2013, 382, 18-23.	1.5	33
64	Crystallization and photoluminescence properties of Î±-RE2(WO4)3 (RE: Gd, Eu) in rare-earth tungsten borate glasses. Optical Materials, 2013, 35, 998-1003.	1.7	12
65	Morphology and photoluminescence properties of Er3+-doped CaF2 nanocrystals patterned by laser irradiation in oxyfluoride glasses. Journal of Fluorine Chemistry, 2013, 145, 81-87.	0.9	28
66	Direct Laser Patterning of Î²â€«<scp><scp>BaB</scp></scp>₂<scp><scp>O</scp></scp>₄ Crystals with High Orientation in the Inside of Glass Fiber. Journal of the American Ceramic Society, 2013, 96, 1339-1341.	1.9	10
67	Performance of Lithium-Ion Battery with Tin-Phosphate Glass Anode and Its Characteristics. Journal of the Electrochemical Society, 2013, 160, A1725-A1730.	1.3	51
68	Magnetism of Î²â€²-Gd₂(MoO₄)₃ and photoluminescence of Î²â€²-Eu₂(MoO₄)₃ crystallized in rare-earth molybdenum borate glasses. Journal of the Ceramic Society of Japan, 2013, 121, 230-235.	0.5	20
69	Effect of AlN addition on spatial uniform distribution of Er³⁺-doped CaF₂ nanocrystals in oxyfluoride glass-ceramics. Journal of the Ceramic Society of Japan, 2013, 121, 457-459.	0.5	6
70	Characterization of BaTiO₃ crystals formed in aluminosilicate glasses and their laser patterning. Journal of the Ceramic Society of Japan, 2013, 121, 583-588.	0.5	5
71	Formation mechanism of LiFePO₄ in crystallization of lithium iron phosphate glass particles. Journal of the Ceramic Society of Japan, 2012, 120, 193-198.	0.5	14
72	Fabrication of Na₂FeP₂O₇ glass-ceramics for sodium ion battery. Journal of the Ceramic Society of Japan, 2012, 120, 344-346.	0.5	88

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73	Spinel-type crystals based on LiFeSiO4 with high electrical conductivity for lithium ion battery formed by melt-quenching method. Journal of the Ceramic Society of Japan, 2012, 120, 93-97.	0.5	10
74	Synthesis and morphology of Ba1â˜'RE2/3Nb2O6 nanocrystals with tungsten bronze structure in RE2O3â€“BaOâ€“Nb2O5â€“B2O3 glasses (RE: Sm, Eu, Gd, Dy, Er). Journal of Solid State Chemistry, 2012, 196, 384-390.	1.4	17
75	Correlation among electronegativity, cation polarizability, optical basicity and single bond strength of simple oxides. Journal of Solid State Chemistry, 2012, 196, 574-578.	1.4	84
76	Effect of Al2O3 addition on the formation of perovskite-type NaNbO3 nanocrystals in silicate-based glasses. Journal of Non-Crystalline Solids, 2012, 358, 1523-1529.	1.5	10
77	Morphology and dispersion state of Ba2TiSi2O8 nanocrystals in transparent glass-ceramics and their nanoindentation behavior. Journal of Non-Crystalline Solids, 2012, 358, 1863-1869.	1.5	22
78	Synthesis and laser patterning of ferroelastic Î²â€²-RE2(MoO4)3 crystals (RE: Sm, Gd, Tb, Dy) in rare-earth molybdenum borate glasses. Materials Chemistry and Physics, 2012, 133, 118-125.	2.0	17
79	Fluorine deficient layer at the surface of transparent glass-ceramics with CaF2 nanocrystals. Journal of Physics and Chemistry of Solids, 2012, 73, 683-687.	1.9	19
80	Fabrication of Eu:SrAl2O4-based glass ceramics using Frozen sorbet method. Journal of the Ceramic Society of Japan, 2011, 119, 609-615.	0.5	45
81	Crystallization Behavior of Lithium Iron Phosphate Glass Powders in Different Atmospheres. Journal of the American Ceramic Society, 2011, 94, 2890-2895.	1.9	9
82	A fast synthesis of Li3V2(PO4)3 crystals via glass-ceramic processing and their battery performance. Journal of Power Sources, 2011, 196, 9618-9624.	4.0	37
83	Laser patterning and morphology of two-dimensional planar ferroelastic rare-earth molybdate crystals on the glass surface. Materials Chemistry and Physics, 2011, 125, 377-381.	2.0	22
84	Elastic properties and Vickers hardness of optically transparent glassâ€“ceramics with fresnoite Ba2TiSi2O8 nanocrystals. Materials Research Bulletin, 2011, 46, 922-928.	2.7	27
85	Fabrication of (K, Na)NbO3 glassâ€“ceramics and crystal line patterning on glass surface. Optical Materials, 2011, 33, 1203-1209.	1.7	16
86	Preferential growth orientation of laser-patterned LiNbO3 crystals in lithium niobium silicate glass. Journal of Solid State Chemistry, 2011, 184, 411-418.	1.4	47
87	Formation and laser patterning of perovskite-type KNbO3 crystals in aluminoborate glasses. Optical Materials, 2011, 33, 267-274.	1.7	20
88	Synthesis and laser patterning of Bi-doped Y3Fe5O12 crystals in germanosilicate glasses. Journal of Physics and Chemistry of Solids, 2010, 71, 906-912.	1.9	3
89	Approach to thermal properties and electronic polarizability from average single bond strength in ZnOî—¸Bi2O3î—¸B2O3 glasses. Journal of Solid State Chemistry, 2010, 183, 3078-3085.	1.4	74
90	Synthesis and Li+ ion conductivity of Li2Oâ€“Nb2O5â€“P2O5 glasses and glassâ€“ceramics. Materials Research Bulletin, 2010, 45, 1443-1448.	2.7	27

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91	Laser patterning and enhanced red photoluminescence of Er3+/Yb3+ co-doped CaF2 crystal dots and lines in oxyfluoride glasses. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 171, 25-30.	1.7	14
92	Two-dimensional Raman imaging for periodic domain structures in laser-patterned ferroelastic Î²â€²-(Sm,Gd)2(MoO4)3 crystal lines in glass. Optical Materials, 2010, 32, 443-447.	1.7	19
93	Origin of periodic domain structure in Er3+-doped Î²â€²-(Sm,Gd)2(MoO4)3 crystal lines patterned by laser irradiations in glasses. Journal of Solid State Chemistry, 2010, 183, 909-914.	1.4	26
94	Fabrication of olivine-type LiMn Fe1âˆ’PO4 crystals via the glassâ€“ceramic route and their lithium ion battery performance. Ceramics International, 2010, 36, 1137-1141.	2.3	42
95	Laser Patterning of ZnO Crystals on the Surface of Borosilicate Glass. Journal of the American Ceramic Society, 2010, 93, 658-661.	1.9	13
96	Thermoâ€Optic Properties and Electronic Polarizability in Alkali Tellurite Glasses. Journal of the American Ceramic Society, 2010, 93, 3223-3229.	1.9	26
97	Patterning of two-dimensional planar lithium niobate architectures on glass surface by laser scanning. Optics Express, 2010, 18, 8019.	1.7	43
98	Electronic polarizability and its temperature dependence of Bi2O3â€“B2O3 glasses. Journal of Non-Crystalline Solids, 2010, 356, 2310-2314.	1.5	22
99	Fabrication of LiFePO4/carbon composites by glass powder crystallization processing and their battery performance. Journal of Non-Crystalline Solids, 2010, 356, 3032-3036.	1.5	27
100	Temperature dependence of refractive index and electronic polarizability of KNbGeO5 glass and its nanocrystallized glasses. Journal of Applied Physics, 2009, 105, .	1.1	12
101	Self-organized periodic domain structure for second harmonic generations in ferroelastic Î²â€²-(Sm,Gd)2(MoO4)3 crystal lines on glass surfaces. Applied Physics Letters, 2009, 94, 041915.	1.5	10
102	Formation and its mechanism of copper metal layers at surface by annealing in reduced atmosphere in CuOâ€“Li2Oâ€“Nb2O5â€“SiO2 glass. Solid State Ionics, 2009, 180, 1457-1462.	1.3	10
103	Synthesis and characterization of rare-earth doped SrBi2Nb2O9 phase in lithium borate based nanocrystallized glasses. Journal of Solid State Chemistry, 2009, 182, 1538-1544.	1.4	7
104	Twoâ€Dimensional Mapping of Er³⁺ Photoluminescence in CaF₂ Crystal Lines Patterned by Lasers in Oxyfluoride Glass. Journal of the American Ceramic Society, 2009, 92, 825-829.	1.9	28
105	Synthesis, Ferroelectric and Electrooptic Properties of Transparent Crystallized Glasses with Sr_xBa_{1âˆ’x}Nb₂O₆ Nanocrystals. Journal of the American Ceramic Society, 2009, 92, 2924-2930.	1.9	39
106	Laser patterning and magnetic properties of perovskite-type <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si12.gif" display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mstyle mathvariant="normal"><mml:mi>La</mml:mi></mml:mstyle></mml:mrow><mml:mrow><mml:mn>0.7</mml:mn></mml:mrow></mml:r mathvariant="normal"><mml:mi>Sr</mml:mi></mml:mstyle></mml:mrow><mml:mrow><mml:mn>0.3</mml:mn></mml:mrow></mml:r mathvariant="n. Solid State Communications, 2009, 149, 1795-1798.	0.9	10
107	Morphology design of highly oriented nonlinear optical Ba2TiSi2O8 crystals at the glass surface by crystallization in reduced atmosphere. Optical Materials, 2009, 32, 35-41.	1.7	13
108	Self-powdering and nonlinear optical domain structures in ferroelastic Î²â€²-Gd2(MoO4)3 crystals formed in glass. Journal of Solid State Chemistry, 2009, 182, 2269-2273.	1.4	29

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109	Correlation between the temperature of molten state and the SH intensity of 30BaO 15TiO2 55GeO2 crystallized glass. Journal of the Ceramic Society of Japan, 2009, 117, 671-674.	0.5	5
110	Average single bond strength and optical basicity of Na2O-GeO2 glasses. Journal of the Ceramic Society of Japan, 2009, 117, 1105-1111.	0.5	15
111	Optical characteristics of nanocrystallized glass fiber with second-order optical nonlinearity. Journal of the Ceramic Society of Japan, 2009, 117, 143-146.	0.5	7
112	Creation of Ferroelectric, Singleâ€Crystal Architecture in Sm_{0.5}La_{0.5}BGeO₅ Glass. Journal of the American Ceramic Society, 2008, 91, 110-114.	1.9	46
113	Micro-architecture of nonlinear optical Ba2TiGe2O8 crystal dots and lines on the surface of laser-induced crystallized glasses by chemical etching. Applied Surface Science, 2008, 255, 3126-3131.	3.1	10
114	Spatially selected synthesis of LaF3 and Er3+-doped CaF2 crystals in oxyfluoride glasses by laser-induced crystallization. Journal of Solid State Chemistry, 2008, 181, 1176-1183.	1.4	33
115	MÃ¶ssbauer analysis of Fe ion state in lithium iron phosphate glasses and their glass-ceramics with olivine-type LiFePO4 crystals. Solid State Communications, 2008, 146, 273-277.	0.9	57
116	Lithium ion conductive glassâ€“ceramics with Li3Fe2(PO4)3 and YAG laser-induced local crystallization in lithium iron phosphate glasses. Solid State Ionics, 2008, 179, 508-515.	1.3	39
117	Writing of crystal lines and its optical properties of rare-earth ion (Er3+ and Sm3+) doped lithium niobate crystal on glass surface formed by laser irradiation. Optical Materials, 2008, 31, 315-319.	1.7	27
118	Microfabrication of Uâ€Shaped Grooves on the Surface of BaOâ€“TiO₂â€“GeO₂ Glass by YAG Laser Irradiation and Selective Chemical Etching. Journal of the American Ceramic Society, 2008, 91, 2170-2175.	1.9	9
119	Selective Synthesis of Lithium Ionâ€Conductive Î²â€LiVOPO₄ Crystals via Glassâ€“Ceramic Processing. Journal of the American Ceramic Society, 2008, 91, 3920-3925.	1.9	32
120	YAG laser-induced structural modification in transition metal ion containing 40K2Oâ€“40Nb2O5â€“20SiO2 glasses. Materials Research Bulletin, 2008, 43, 2592-2598.	2.7	11
121	Writing of crystal line patterns in glass by laser irradiation. Journal of Non-Crystalline Solids, 2008, 354, 468-471.	1.5	21
122	Patterning of c-axis-oriented Ba₂TiX₂O₈ (X = Si, Ge) crystal lines in glass by laser irradiation and their second-order optical nonlinearities. Journal of Materials Research, 2008, 23, 885-888.	1.2	35
123	Transparent nonlinear optical crystallized glass fibers with highly oriented Ba2TiGe2O8 crystals. Journal of Applied Physics, 2008, 103, .	1.1	24
124	Comprehensive study of crystallization and phase formation in (La,Gd)BGeO5 glass. Journal of the Ceramic Society of Japan, 2008, 116, 1108-1114.	0.5	4
125	Deformation during Vickers nanoindentation in highly oriented nonlinear optical Ba2TiGe2O8 crystalline layers at glass surface. Journal of the Ceramic Society of Japan, 2008, 116, 859-863.	0.5	2
126	Crystal growth behavior in CuO-doped lithium disilicate glasses by continuous-wave fiber laser irradiation. Journal of the Ceramic Society of Japan, 2008, 116, 1314-1318.	0.5	28

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127	Laser-Induced Line Patterning of Nonlinear Optical .BETA.'-SmxGd2-x(MoO4)3 Molybdate Crystals in Glass. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2008, 55, 205-210.	0.1	2
128	Dual layered surface crystallization of 30BaOâ€“15TiO2â€“55GeO2 glass by stepwise heat treatment. Journal of Applied Physics, 2007, 101, 123505.	1.1	9
129	Creation of locally selective mirror surface on 40BaOâ€“40TiO2â€“20B2O3 glass by XeCl pulse laser irradiation. Journal of Materials Research, 2007, 22, 1270-1274.	1.2	1
130	Patterning of Ferroelectric .BETA.'-Gd2(MoO4)3 Crystal Lines on the Glass Surface by Transition Metal Atom Heat Processing. Journal of the Ceramic Society of Japan, 2007, 115, 582-587.	0.5	17
131	Chemically Etched Sharpened Tip of Transparent Crystallized Glass Fibers with Nonlinear Optical Ba2TiSi2O8 Nanocrystals. Journal of the Ceramic Society of Japan, 2007, 115, 374-378.	1.3	20
132	Structure and non-linear optical properties of BaOâ€“TiO2â€“SiO2 glass containing Ba2TiSi2O8 crystal. Journal of Non-Crystalline Solids, 2007, 353, 2258-2262.	1.5	52
133	Line patterning of (Sr,Ba)Nb2O6 crystals in borate glasses by transition metal atom heat processing. Journal of Solid State Chemistry, 2007, 180, 2541-2549.	1.4	21
134	Nanocrystalline patterning of K3Li2Nb5O15 on TeO2 glasses by an excimer laser. Journal of Crystal Growth, 2007, 304, 270-274.	0.7	11
135	Fabrication of TiO2 nanocrystallized glass. Applied Physics Letters, 2007, 90, 081907.	1.5	32
136	Patterning and morphology of nonlinear optical GdxBi1-xBO3 crystals in CuO-doped glass by YAG laser irradiation. Applied Physics A: Materials Science and Processing, 2007, 89, 981-986.	1.1	23
137	Transition metal atom heat processing for writing of crystal lines in glass. Applied Physics Letters, 2006, 88, 231105.	1.5	99
138	Formation of Nano-Particle Structures Induced by Ultraviolet Laser Irradiations in KNbO3-TeO2 Glass. Journal of the Ceramic Society of Japan, 2006, 114, 293-295.	1.3	3
139	Synthesis of nanocrystals in KNb(Ge,Si)O5 glasses and chemical etching of nanocrystallized glass fibers. Journal of Solid State Chemistry, 2006, 179, 1821-1829.	1.4	27
140	Enhancement of second harmonic intensity in thermally poled ferroelectric nanocrystallized glasses in the BaOâ€“TiO2â€“SiO2 system. Solid State Communications, 2006, 140, 299-303.	0.9	25
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