

Kiyotaka Miura

List of Publications by Year in descending order

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65
papers

1,547
citations

361413

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302126

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docs citations

67
times ranked

1421
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of Monolithic Al ₂ O ₃ with Well-Defined Macropores and Mesostructured Skeletons via the Sol-gel Process Accompanied by Phase Separation. Chemistry of Materials, 2007, 19, 3393-3398.	6.7	198
2	Quill-writing with ultrashort light pulses in transparent materials. Applied Physics Letters, 2007, 90, 151120.	3.3	188
3	Temperature distribution and modification mechanism inside glass with heat accumulation during 250kHz irradiation of femtosecond laser pulses. Applied Physics Letters, 2008, 93, .	3.3	97
4	Diamond photonics platform enabled by femtosecond laser writing. Scientific Reports, 2016, 6, 35566.	3.3	96
5	Ion exchange in glass using femtosecond laser irradiation. Applied Physics Letters, 2008, 93, 023112.	3.3	88
6	Mechanism of heat-modification inside a glass after irradiation with high-repetition rate femtosecond laser pulses. Journal of Applied Physics, 2010, 108, .	2.5	88
7	Direct laser-writing of ferroelectric single-crystal waveguide architectures in glass for 3D integrated optics. Scientific Reports, 2015, 5, 10391.	3.3	83
8	Self-Limited Nanocrystallization-Mediated Activation of Semiconductor Nanocrystal in an Amorphous Solid. Advanced Functional Materials, 2013, 23, 5436-5443.	14.9	73
9	Ultrashort-pulse laser calligraphy. Applied Physics Letters, 2008, 93, .	3.3	68
10	Sol-gel Synthesis of Macroporous YAG from Ionic Precursors via Phase Separation Route. Journal of the Ceramic Society of Japan, 2007, 115, 925-928.	1.1	45
11	Tailoring thermoelectric properties of nanostructured crystal silicon fabricated by infrared femtosecond laser direct writing. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 715-721.	1.8	45
12	Systematic Control of Structural Changes in GeO ₂ Glass Induced by Femtosecond Laser Direct Writing. Journal of the American Ceramic Society, 2015, 98, 1471-1477.	3.8	45
13	Thermal and shock induced modification inside a silica glass by focused femtosecond laser pulse. Journal of Applied Physics, 2011, 109, .	2.5	34
14	Unexpected gas sensing properties of SiO ₂ /SnO ₂ core-shell nanofibers under dry and humid conditions. Journal of Materials Chemistry C, 2017, 5, 6369-6376.	5.5	30
15	Formation of Si structure in glass with a femtosecond laser. Applied Physics A: Materials Science and Processing, 2008, 93, 183-188.	2.3	29
16	Luminescence of black silicon fabricated by high-repetition rate femtosecond laser pulses. Journal of Applied Physics, 2011, 110, .	2.5	29
17	Space-selective phase separation inside a glass by controlling compositional distribution with femtosecond-laser irradiation. Applied Physics A: Materials Science and Processing, 2010, 100, 1001-1005.	2.3	28
18	Heterogeneous-surface-mediated crystallization control. NPG Asia Materials, 2016, 8, e245-e245.	7.9	23

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19	Photoinduced microchannels inside silicon by femtosecond pulses. Applied Physics Letters, 2008, 93, 051112.	3.3	21
20	Nanomodification of Glass Using fs Laser. International Journal of Applied Glass Science, 2013, 4, 182-191.	2.0	21
21	Efficient generation of nitrogen-vacancy center inside diamond with shortening of laser pulse duration. Applied Physics Letters, 2018, 113, .	3.3	21
22	Femtosecond laser direct writing in SiO ₂ -Al ₂ O ₃ binary glasses and thermal stability of Type II permanent modifications. Journal of the American Ceramic Society, 2020, 103, 4286-4294.	3.8	19
23	Direct writing of high-density nitrogen-vacancy centers inside diamond by femtosecond laser irradiation. Applied Physics Letters, 2021, 118, .	3.3	19
24	Synthesis and photocatalytic properties of SiO ₂ /TiO ₂ nanofibers using templates of TEMPO-oxidized cellulose nanofibers. Journal of Sol-Gel Science and Technology, 2016, 79, 151-159.	2.4	16
25	Role of partial molar enthalpy of oxides on Soret effect in high-temperature CaO-SiO ₂ melts. Scientific Reports, 2018, 8, 15489.	3.3	13
26	Enhanced magnetization and ferrimagnetic behavior of normal spinel ZnFe ₂ O ₄ thin film irradiated with femtosecond laser. Applied Physics A: Materials Science and Processing, 2009, 94, 83.	2.3	10
27	Crack Propagation in a Ruby Single Crystal by Femtosecond Laser Irradiation. Journal of the American Ceramic Society, 2009, 92, 3118-3121.	3.8	9
28	Optical Backplane Connectors Using Three-Dimensional Waveguide Arrays. Journal of Lightwave Technology, 2007, 25, 2776-2782.	4.6	8
29	Nano-periodic structure formation on titanium thin film with a Femtosecond laser. Journal of the Ceramic Society of Japan, 2011, 119, 898-901.	1.1	8
30	Molecular dynamics simulation of the Soret effect in a CaSiO ₃ glass melt. Journal of the Ceramic Society of Japan, 2017, 125, 180-184.	1.1	8
31	Determination of thermodynamic and microscopic origins of the Soret effect in sodium silicate melts: Prediction of sign change of the Soret coefficient. Journal of Chemical Physics, 2021, 154, 074501.	3.0	8
32	Synthesis of Microsized Gold Plates with Nanometer Thickness via a Simple Solution Route using 3-mercaptopropyltrimethoxysilane. Journal of the Ceramic Society of Japan, 2007, 115, 944-946.	1.1	6
33	Selective growth of gold nanostructures on locally amorphized silicon. Journal of the Ceramic Society of Japan, 2014, 122, 543-546.	1.1	6
34	Femtosecond Laser-Induced Self-Assembly of Ce ³⁺ -Doped YAG Nanocrystals. Crystals, 2020, 10, 1142.	2.2	6
35	Structural origin of thermal shrinkage in soda-lime silicate glass below the glass transition temperature: A theoretical investigation by microsecond timescale molecular dynamics simulations. Journal of Chemical Physics, 2021, 155, 044501.	3.0	6
36	Photo-initiation of ZnO nanorod formation by femtosecond laser irradiation. Journal of the Ceramic Society of Japan, 2010, 118, 147-151.	1.1	5

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37	Selective growth of gold nanoparticles on FIB-induced amorphous phase of Si substrate. Journal of the Ceramic Society of Japan, 2010, 118, 575-578.	1.1	5
38	Soret coefficients of alkali oxides in alkali borate glass melts. Journal of the Ceramic Society of Japan, 2016, 124, 774-776.	1.1	5
39	Soret coefficient of a sodium borate melt: Experiment with a vertical furnace and thermodynamic theory. Journal of the Ceramic Society of Japan, 2018, 126, 997-1004.	1.1	5
40	Alkoxy-derived multiscale porous TiO ₂ gels probed by ultra-small-angle X-ray scattering and small-angle X-ray scattering. Journal of Sol-Gel Science and Technology, 2008, 46, 63-69.	2.4	4
41	Modulation of transient stress distributions for controlling femtosecond laser-induced cracks inside a single crystal. Applied Physics A: Materials Science and Processing, 2014, 114, 261-265.	2.3	4
42	Space selective reduction of europium ions via SrF ₂ crystals induced by high repetition rate femtosecond laser. Journal of the Ceramic Society of Japan, 2011, 119, 939-941.	1.1	3
43	Shape control of femtosecond-laser-induced birefringent structures by controlling spherical aberration. Journal of Laser Applications, 2016, 28, 022603.	1.7	3
44	Substitutional reaction in Si-O network of molecular dynamics modeled liquid Na ₂ SiO ₃ : Microscopic and statistical study. Journal of the American Ceramic Society, 2019, 102, 4431-4439.	3.8	3
45	Speciation of tin ions in oxide glass containing iron oxide through solvent extraction and inductively coupled plasma atomic emission spectrometry after the decomposition utilizing ascorbic acid. Analytical Sciences, 2022, 38, 881-888.	1.6	3
46	Femtosecond laser induced phenomena in glasses and photonic device applications. Materials Research Society Symposia Proceedings, 2004, 850, 61.	0.1	2
47	Cross patterning on MgO based on dislocations using femtosecond laser irradiation. Applied Physics A: Materials Science and Processing, 2008, 92, 913-916.	2.3	2
48	Optical properties of a waveguide written inside a LiTaO ₃ crystal by irradiation with focused femtosecond laser pulses. Optical Review, 2011, 18, 166-170.	2.0	2
49	Control of Si-rich region inside a sodalime glass by parallel femtosecond laser focusing at multiple spots. Applied Physics B: Lasers and Optics, 2015, 119, 485-492.	2.2	2
50	Phase Separation in Al ₂ O ₃ Sol-gel System Incorporated with High Molecular Weight Poly(ethylene oxide). Materials Research Society Symposia Proceedings, 2007, 1007, 1.	0.1	1
51	Morphology change from nanocrack into periodic pore array formed by femtosecond laser pulses. Journal of Applied Physics, 2011, 109, 013517.	2.5	1
52	Nanoparticle synthesis by femtosecond laser ablation in liquid. , 2013, , .		1
53	Soret coefficient of a sodium germanate glass melt: Experiment, theory, and molecular dynamics simulation. Journal of the American Ceramic Society, 2020, 103, 6208-6214.	3.8	1
54	Low temperature deformation mechanism of semiconductor single crystal and molding of Ge microlens array by direct electrical heating. AIP Advances, 2020, 10, .	1.3	1

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55	Determination of sulfur in soda-lime silicate glass by inductively coupled plasma atomic emission spectroscopy following separation using an alumina column. Journal of the Ceramic Society of Japan, 2021, 129, 54-59.	1.1	1
56	Ultrafast Defect Manipulation with Optical Anisotropy in Fused Silica. Materials Research Society Symposia Proceedings, 2009, 1230, 1.	0.1	0
57	Dislocation Arrays in Sapphire using Femtosecond Laser Irradiation. Materials Research Society Symposia Proceedings, 2009, 1228, 55601.	0.1	0
58	Micro-hole processing of polyimide film by ultra-short laser pulses and its applications. Applied Physics A: Materials Science and Processing, 2010, 98, 123-127.	2.3	0
59	Phase control of iron silicides using femtosecond laser irradiation. Applied Physics A: Materials Science and Processing, 2010, 101, 81-85.	2.3	0
60	Selective metallization of Ag ₂ O-doped silicate glass by femtosecond laser direct writing. Journal of the Ceramic Society of Japan, 2011, 119, 697-700.	1.1	0
61	Defect doping and characterization in oxide single crystals using femtosecond laser. Materials Research Society Symposia Proceedings, 2011, 1298, 185.	0.1	0
62	Formation of Silicon and Silicon-Based Semiconductor Materials via Photoinduced Reaction Using Femtosecond Laser. Materials Research Society Symposia Proceedings, 2011, 1288, 1.	0.1	0
63	Shape control of element distribution inside a glass by simultaneous irradiation with femtosecond laser pulses at multiple spots. , 2013, , .		0
64	Strain and stress dynamics of femtosecond laser bulk processing of transparent fcc crystals. , 2015, , .		0
65	Methods for Observation of Material Deformations and Energy Dissipation Processes during a Femtosecond Laser Machining Inside Transparent Materials. The Review of Laser Engineering, 2007, 35, 109-115.	0.0	0