

# Mizue Mizoshiri

## List of Publications by Year in descending order

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69  
papers

571  
citations

567281

15  
h-index

677142

22  
g-index

70  
all docs

70  
docs citations

70  
times ranked

401  
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct writing of Cu-based micro-temperature detectors using femtosecond laser reduction of CuO nanoparticles. Applied Physics Express, 2016, 9, 036701.	2.4	52
2	Thermal-Photovoltaic Hybrid Solar Generator Using Thin-Film Thermoelectric Modules. Japanese Journal of Applied Physics, 2012, 51, 06FL07.	1.5	33
3	Microlens arrays of high-refractive-index glass fabricated by femtosecond laser lithography. Applied Surface Science, 2009, 255, 9750-9753.	6.1	32
4	Thin-Film Thermoelectric Modules for Power Generation Using Focused Solar Light. Journal of Electronic Materials, 2012, 41, 1713-1719.	2.2	31
5	Direct fabrication of Cu/Cu <sub>2</sub> O composite micro-temperature sensor using femtosecond laser reduction patterning. Japanese Journal of Applied Physics, 2016, 55, 06GP05.	1.5	31
6	Field emission current and vacuum breakdown by a pointed cathode. Thin Solid Films, 2007, 515, 4247-4250.	1.8	28
7	Thermal-Photovoltaic Hybrid Solar Generator Using Thin-Film Thermoelectric Modules. Japanese Journal of Applied Physics, 2012, 51, 06FL07.	1.5	24
8	SiO <sub>2</sub> -based nonplanar structures fabricated using femtosecond laser lithography. Optics Express, 2008, 16, 17288.	3.4	23
9	p-Type Sb <sub>2</sub> Te <sub>3</sub> and n-Type Bi <sub>2</sub> Te <sub>3</sub> Films for Thermoelectric Modules Deposited by Thermally Assisted Sputtering Method. Japanese Journal of Applied Physics, 2013, 52, 06GL07.	1.5	22
10	Selective fabrication of p-type and n-type thermoelectric micropatterns by the reduction of CuO/NiO mixed nanoparticles using femtosecond laser pulses. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	22
11	Effect of Heat Accumulation on Femtosecond Laser Reductive Sintering of Mixed CuO/NiO Nanoparticles. Micromachines, 2018, 9, 264.	2.9	22
12	Fabrication of thin-film thermoelectric generators with ball lenses for conversion of near-infrared solar light. Japanese Journal of Applied Physics, 2017, 56, 06GN06.	1.5	20
13	Evaluation of the Thermoelectric Module Consisting of W-Doped Heusler Fe <sub>2</sub> VAl Alloy. Journal of Electronic Materials, 2014, 43, 1922-1926.	2.2	19
14	Cu Patterning Using Femtosecond Laser Reductive Sintering of CuO Nanoparticles under Inert Gas Injection. Materials, 2021, 14, 3285.	2.9	18
15	SiO <sub>2</sub> -Based Hybrid Diffractive Refractive Lenses Fabricated by Femtosecond Laser-Assisted Micromachining. Applied Physics Express, 0, 1, 127001.	2.4	17
16	Direct patterning of Cu microstructures using femtosecond laser-induced CuO nanoparticle reduction. Japanese Journal of Applied Physics, 2015, 54, 06FP07.	1.5	16
17	Direct Writing of Copper Micropatterns Using Near-Infrared Femtosecond Laser-Pulse-Induced Reduction of Glyoxylic Acid Copper Complex. Micromachines, 2019, 10, 401.	2.9	14
18	Copper and Nickel Microsensors Produced by Selective Laser Reductive Sintering for Non-Enzymatic Glucose Detection. Materials, 2021, 14, 2493.	2.9	14

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19	Ni-based composite microstructures fabricated by femtosecond laser reductive sintering of NiO/Cr mixed nanoparticles. Japanese Journal of Applied Physics, 2017, 56, 06GN08.	1.5	13
20	Direct writing of two- and three-dimensional Cu-based microstructures by femtosecond laser reductive sintering of the Cu <sub>2</sub> O nanospheres. Optical Materials Express, 2019, 9, 2828.	3.0	13
21	Three-dimensional SiO <sub>2</sub> surface structures fabricated using femtosecond laser lithography. Applied Physics A: Materials Science and Processing, 2010, 98, 171-177.	2.3	12
22	The effect of Cr buffer layer thickness on voltage generation of thin-film thermoelectric modules. Journal of Micromechanics and Microengineering, 2013, 23, 115016.	2.6	11
23	Direct writing of Cu-based fine micropatterns using femtosecond laser pulse-induced sintering of Cu <sub>2</sub> O nanospheres. Japanese Journal of Applied Physics, 2019, 58, SDDF05.	1.5	10
24	Three-dimensional Cu microfabrication using femtosecond laser-induced reduction of CuO nanoparticles. Applied Physics Express, 2017, 10, 017201.	2.4	9
25	Effect of Substrates on Femtosecond Laser Pulse-Induced Reductive Sintering of Cobalt Oxide Nanoparticles. Nanomaterials, 2021, 11, 3356.	4.1	9
26	Lift-off patterning of thermoelectric thick films deposited by a thermally assisted sputtering method. Applied Physics Express, 2014, 7, 057101.	2.4	8
27	Direct Writing of Cu Patterns on Polydimethylsiloxane Substrates Using Femtosecond Laser Pulse-Induced Reduction of Glyoxylic Acid Copper Complex. Micromachines, 2021, 12, 493.	2.9	7
28	Femtosecond laser direct writing of Cu-Ni alloy patterns in ambient atmosphere using glyoxylic acid Cu/Ni mixed complexes. Optics and Laser Technology, 2021, 144, 107418.	4.6	7
29	Direct writing of Cu-based micropatterns inside Cu <sub>2</sub> O nanosphere films using green femtosecond laser reductive sintering. Optical Materials Express, 2020, 10, 2533.	3.0	7
30	Nonplanar surface structures of inorganic materials fabricated by femtosecond laser lithography. Proceedings of SPIE, 2008, , .	0.8	3
31	Large refractive index changes of a chemically amplified photoresist in femtosecond laser nonlinear lithography. Optics Express, 2011, 19, 7673.	3.4	3
32	Fabrication of a Cr Nanoporous Thin Film via Sputter Deposition and Investigation of Its Applicability as a Water-oil Separation Electrode in a MEMS Moisture Sensor. IEEJ Transactions on Sensors and Micromachines, 2017, 137, 15-22.	0.1	3
33	Fabrication of Novel Nanoporous Films in Moisture-in-Oil Sensors via Chemical Dealloying of Cu-Cr using Combinatorial Search of Cu-Cr Alloy Compositions. MRS Advances, 2018, 3, 225-232.	0.9	2
34	Fabrication of a Novel Nanoporous Film via Chemical Dealloying of a Cu-Cr Alloy for Sensing Moisture in Oil. Journal of Microelectromechanical Systems, 2019, 28, 279-289.	2.5	2
35	Development of a fast atom beam gun for surface-activated bonding. Precision Engineering, 2020, 62, 106-112.	3.4	2
36	Effect of Different Solvents on Cu Micropatterns Formed via Femtosecond Laser Reduction Patterning. International Journal of Automation Technology, 2016, 10, 934-940.	1.0	2

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37	Reverse Lift-Off Process and Application for Cu-Zr-Ti Metallic Glass Thick Film Structures. International Journal of Automation Technology, 2015, 9, 646-654.	1.0	2
38	SiO <sub>2</sub> -based variable microfluidic lenses fabricated by femtosecond laser lithography-assisted micromachining. , 2008, , .		1
39	Fabrication of CuO-based antireflection structures using self-arranged submicron SiO <sub>2</sub> spheres for thermoelectric solar generation. Japanese Journal of Applied Physics, 2016, 55, 06GP07.	1.5	1
40	Direct-writing of copper-based micropatterns on polymer substrates using femtosecond laser reduction of copper (II) oxide nanoparticles. , 2017, , .		1
41	Fabrication of a novel nanoporous film by chemical dealloying of CU-CR and its application for a sensor. , 2018, , .		1
42	Preparation of Nonspherical Monodisperse Polydimethylsiloxane Microparticles for Self-assembly Fabrication of Periodic Structures. IEEJ Transactions on Sensors and Micromachines, 2019, 139, 132-136.	0.1	1
43	These five years. Yosetsu Gakkai Shi/Journal of the Japan Welding Society, 2009, 78, 571-573.	0.1	1
44	Direct writing of three-dimensional Cu-based sensors using femtosecond laser reduction of CuO nanoparticles. , 2018, , .		1
45	Bonding of single-layered Cu <sub>2</sub> O nanospheres on Cu substrates in irradiating near-infrared femtosecond laser pulses. Japanese Journal of Applied Physics, 0, , .	1.5	1
46	Silica-based diffractive/refractive hybrid microlenses fabricated by multiphoton lithography. , 2008, , .		0
47	Nonlinear lithographic properties by femtosecond laser pulses using a low-NA lens. , 2010, , .		0
48	Thermoelectric thick film patterns formed by using thermally-assisted sputtering method and silicone lift-off masks. , 2013, , .		0
49	Design of CuO anti-reflection structure for thin-film thermoelectric generator. , 2014, , .		0
50	Combinatorial searching system for electrolysis catalytic materials. , 2015, , .		0
51	Thin-film thermoelectric generator with ball lens for using near-infrared solar energy. , 2015, , .		0
52	Fabrication of Plasmon Filters for Highly Sensitive Observation of Magnetic Domains by Magneto-Optical Kerr Effect. , 2018, , .		0
53	Basic research on micro processing characteristics of reverse lift-off process. , 2018, , .		0
54	J2220102 Fabrication of device for high throughput evaluation of magnetostriction and relative permeability. The Proceedings of Mechanical Engineering Congress Japan, 2015, 2015, J2220102--J2220102-.	0.0	0

#	ARTICLE	IF	CITATIONS
55	MoB-2-2 REDUCTION PROPERTIES OF NICKEL MICROSTRUCTURES FABRICATED BY DIRECT FEMTOSECOND LASER REDUCTION PATTERNING. Proceedings of JSME-IIP/ASME-ISPS Joint Conference on Micromechatronics for Information and Precision Equipment IIP/ISPS Joint MIPE, 2015, 2015, MoB-2-2-1- MoB-2-2-3.	0.0	0
56	J2220101 Characteristics of Ti-Ni-Cu Thin Film Metallic Glasses/Thin Film Shape Memory Alloys Before and After Crystallization. The Proceedings of Mechanical Engineering Congress Japan, 2015, 2015, _J2220101-_J2220101-.	0.0	0
57	MoB-2-1 CHARACTERISTICS OF TI-NI-ZR THIN FILM METALLIC GLASSES FOR MEMS WITH THREE DIMENSIONAL STRUCTURE. Proceedings of JSME-IIP/ASME-ISPS Joint Conference on Micromechatronics for Information and Precision Equipment IIP/ISPS Joint MIPE, 2015, 2015, _MoB-2-1-1-_MoB-2-1-3.	0.0	0
58	Fabrication Process of Antimony Telluride and Bismuth Telluride Micro Thermoelectric Generator. International Journal of Automation Technology, 2015, 9, 612-618.	1.0	0
59	Characteristics for administrating liquid medicine in passive drug delivery system. The Proceedings of Mechanical Engineering Congress Japan, 2016, 2016, J2230101.	0.0	0
60	Polymer-based blood vessel models with micro-temperature sensors in EVE. , 2017, , .		0
61	Direct writing of Cu-Ni-based thermoelectric micropatterns using femtosecond laser reduction of CuO and NiO mixed nanoparticles. The Proceedings of Conference of Tokai Branch, 2018, 2018.67, 701.	0.0	0
62	Direct-Writing Technique Using Femtosecond Laser Reductive Sintering of CuO Nanoparticles. The Review of Laser Engineering, 2018, 46, 257.	0.0	0
63	Femtosecond laser direct writing of Cu-based fine patterns using Cu <sub>2</sub> O nanospheres. , 2018, , .		0
64	High-contrast imaging of magnetic domains by magneto-optical Kerr effect using plasmon filters. , 2019, , .		0
65	Direct writing of Cu-based flexible thermal detectors using femtosecond laser-induced reduction. , 2019, , .		0
66	Femtosecond laser direct-writing technique using reduction of glyoxylic acid metal complexes. , 2019, , .		0
67	Fabrication of Cu-based microstructures by reduction of Cu <sub>2</sub> O nanoparticles using green femtosecond laser pulses. The Proceedings of Conference of Hokuriku-Shinetsu Branch, 2020, 2020.57, S032.	0.0	0
68	Design and fabrication of micro-Fresnel lenses for thermoelectric conversion of near-infrared solar light. The Proceedings of Conference of Hokuriku-Shinetsu Branch, 2020, 2020.57, S034.	0.0	0
69	Cobalt Precipitation from Glyoxylic Acid Cobalt Complex by Irradiating Femtosecond Laser Pulses. IEEJ Transactions on Electronics, Information and Systems, 2022, 142, 466-469.	0.2	0