Taichi Furukawa

List of Publications by Year
in descending order

36 papers	371 citations	759233 12 h-index	839539 18 g-index
36 all docs	36 docs citations	36 times ranked	486 citing authors

#	Article	IF	Citations
1	Multicolor Cathodoluminescence Microscopy for Biological Imaging with Nanophosphors. Applied Physics Express, 2011, 4, 112402.	2.4	34
2	Rapid three-dimensional structuring of transparent SiO2 glass using interparticle photo-cross-linkable suspensions. Communications Materials, 2020, 1, .	6.9	32
3	Y2O3:Tm,Yb nanophosphors for correlative upconversion luminescence and cathodoluminescence imaging. Micron, 2014, 67, 90-95.	2.2	26
4	Multi-material microstereolithography using a palette with multicolor photocurable resins. Optical Materials Express, 2020, 10, 2522.	3.0	25
5	High-resolution microscopy for biological specimens via cathodoluminescence of Eu- and Zn-doped Y_2O_3nanophosphors. Optics Express, 2013, 21, 25655.	3.4	22
6	Coherent anti-Stokes Raman scattering rigid endoscope toward robot-assisted surgery. Biomedical Optics Express, 2018, 9, 387.	2.9	20
7	Multispectral Emissions of Lanthanide-Doped Gadolinium Oxide Nanophosphors for Cathodoluminescence and Near-Infrared Upconversion/Downconversion Imaging. Nanomaterials, 2016, 6, 163.	4.1	17
8	Synthesis of Y_2O_3 nanophosphors by homogeneous precipitation method using excessive urea for cathodoluminescence and upconversion luminescence bioimaging. Optical Materials Express, 2016, 6, 831.	3.0	15
9	Multi-scale laser direct writing of conductive metal microstructures using a 405-nm blue laser. Optics Express, 2020, 28, 8363.	3.4	15
10	Liquidâ€State Optoelectronics Using Liquid Metal. Advanced Electronic Materials, 2020, 6, 1901135.	5.1	14
11	Rare-earth-doped nanophosphors for multicolor cathodoluminescence nanobioimaging using scanning transmission electron microscopy. Journal of Biomedical Optics, 2015, 20, 056007.	2.6	13
12	3D-Printed Micro-Tweezers with a Compliant Mechanism Designed Using Topology Optimization. Micromachines, 2021, 12, 579.	2.9	13
13	Simple autofocusing method by image processing using transmission images for large-scale two-photon lithography. Optics Express, 2020, 28, 12342.	3.4	13
14	3D Helical Micromixer Fabricated by Micro Lostâ€Wax Casting. Advanced Materials Technologies, 2020, 5, 1900794.	5.8	12
15	Additive Manufacturing of Micromanipulator Mounted on a Glass Capillary for Biological Applications. Micromachines, 2020, 11, 174.	2.9	12
16	3D structuring of dense alumina ceramics using fiber-based stereolithography with interparticle photo-cross-linkable slurry. Advanced Powder Technology, 2021, 32, 72-79.	4.1	12
17	Dynamic nano-imaging of label-free living cells using electron beam excitation-assisted optical microscope. Scientific Reports, 2015, 5, 16068.	3.3	11
18	Cellular force assay detects altered contractility caused by a nephritisâ€associated mutation in nonmuscle myosin <scp>IIA</scp>. Development Growth and Differentiation, 2017, 59, 423-433.	1.5	11

#	Article	IF	Citations
19	Multi-scale, multi-depth lithography using optical fibers for microfluidic applications. Microfluidics and Nanofluidics, 2018, 22, 1.	2.2	11
20	Fabrication of bright and thin Zn_2SiO_4 luminescent film for electron beam excitation-assisted optical microscope. Optics Express, 2015, 23, 18630.	3.4	9
21	Excitation of erbium-doped nanoparticles in 1550-nm wavelength region for deep tissue imaging with reduced degradation of spatial resolution. Journal of Biomedical Optics, 2019, 24, 1.	2.6	9
22	Invited Article: Label-free nerve imaging with a coherent anti-Stokes Raman scattering rigid endoscope using two optical fibers for laser delivery. APL Photonics, 2018, 3, 092407.	5.7	8
23	Polymerization Shrinkage Behavior of Light Cure Resin Composites in Cavities. Journal of Biomechanical Science and Engineering, 2009, 4, 356-364.	0.3	6
24	Multi-scale micro-stereolithography using optical fibers with a photocurable ceramic slurry. Optical Materials Express, 2021, 11, 105.	3.0	6
25	3D Shape Reconstruction of 3D Printed Transparent Microscopic Objects from Multiple Photographic Images Using Ultraviolet Illumination. Micromachines, 2018, 9, 261.	2.9	3
26	Effects of suspension processing conditions on the multi-scale structural changes of photocured SiO2 bodies during sintering process: An operando observation using optical coherence tomography. Advanced Powder Technology, 2022, 33, 103533.	4.1	2
27	Evaluation of cell damage induced by electron beam. , 2014, , .		0
28	Fabrication of ZnO luminescent films for nanometric light source of high-resolution optical microscope. , 2014, , .		0
29	C6-P-04Tri-modal imaging techniques Cathodoluminescence (CL) - Near Infrared (NIR) and Magnetic resonance imaging (MRI) with lanthanides doped Gd₂O₃. Microscopy (Oxford,) Tj ETQq1 1 0.784314 rgBT	1.5	0
30	C6-P-01Rare-earth doped Y₂O₃nano-phosphor probes for correlative cathodoluminescence and near-infrared optical bio-imaging. Microscopy (Oxford, England), 2015, 64, i140.2-i140.	1.5	0
31	Highly Deformable Optoelectronics Using Liquid Metal. , 2020, , .		0
32	Development of Micromanipulators using Stereolithography. Journal of the Robotics Society of Japan, 2021, 39, 306-309.	0.1	0
33	C212 Synthesis of bimodal nanophosphors with cathodoluminescence and upconversion luminescence for multi-scale bioimaging. The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2013, 2013.24, 181-182.	0.0	0
34	Synthesis of Nanophosphors for Bioimaging using Electron Beam Excitation. Hosokawa Powder Technology Foundation ANNUAL REPORT, 2016, 24, 85-91.	0.0	0
35	The effect of mutations in nonmuscle myosin IIA on cell contractility. The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2017, 2017.28, 2A24.	0.0	0
36	Simple autofocusing method by image processing for two-photon lithography. , 2020, , .		0