

Tommaso Baldacchini

List of Publications by Year in descending order

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69
papers

3,417
citations

218677

26
h-index

168389

53
g-index

75
all docs

75
docs citations

75
times ranked

3644
citing authors

#	ARTICLE	IF	CITATIONS
1	Elucidating complex triplet-state dynamics in the model system isopropylthioxanthone. <i>IScience</i> , 2022, 25, 103600.	4.1	12
2	Polymerization mechanisms initiated by spatio-temporally confined light. <i>Nanophotonics</i> , 2021, 10, 1211-1242.	6.0	71
3	Translation of laser-based three-dimensional printing technologies. <i>MRS Bulletin</i> , 2021, 46, 174-185.	3.5	9
4	Nanoscale investigation of two-photon polymerized microstructures with tip-enhanced Raman spectroscopy. <i>JPhys Photonics</i> , 2021, 3, 024001.	4.6	3
5	Rapid chemically selective 3D imaging in the mid-infrared. <i>Optica</i> , 2021, 8, 995.	9.3	10
6	An Investigation of Integrated Multiscale Three-Dimensional Printing for Hierarchical Structures Fabrication. <i>Journal of Micro and Nano-Manufacturing</i> , 2021, 9, .	0.7	3
7	Enhanced adhesion in two-photon polymerization direct laser writing. <i>AIP Advances</i> , 2020, 10, .	1.3	6
8	Metrology and process control. , 2020, , 197-228.		4
9	Visualizing TPP structures with coherent Raman scattering microscopy. , 2020, , 229-249.		0
10	Thermal post-curing as an efficient strategy to eliminate process parameter sensitivity in the mechanical properties of two-photon polymerized materials. <i>Optics Express</i> , 2020, 28, 20362.	3.4	20
11	Optical damage thresholds of microstructures made by laser three-dimensional nanolithography. <i>Optics Letters</i> , 2020, 45, 13.	3.3	24
12	Programmable Mechanical Properties of Two-Photon Polymerized Materials: From Nanowires to Bulk. <i>Advanced Materials Technologies</i> , 2019, 4, 1900146.	5.8	65
13	Mesoscale laser 3D printing. <i>Optics Express</i> , 2019, 27, 15205.	3.4	116
14	Effect of the resin viscosity on the writing properties of two-photon polymerization. <i>Optical Materials Express</i> , 2019, 9, 2601.	3.0	44
15	Module for multiphoton high-resolution hyperspectral imaging and spectroscopy. , 2018, , .		3
16	Laser additive manufacturing using nanofabrication by integrated two-photon polymerization and multiphoton ablation. , 2017, , 237-256.		4
17	Two-Photon Polymerization Metrology: Characterization Methods of Mechanisms and Microstructures. <i>Micromachines</i> , 2017, 8, 101.	2.9	73
18	Performance comparison of acrylic and thiol-acrylic resins in two-photon polymerization. <i>Optics Express</i> , 2016, 24, 13687.	3.4	50

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19	A Collection of Microsculptures. , 2016, , 257-267.		0
20	Polymer-Based 3D Micro-/Nanofabrication by Laser Direct Writing. , 2016, , 3349-3361.		1
21	Microfabrication of three-dimensional filters for liposome extrusion. Proceedings of SPIE, 2015, , .	0.8	5
22	Laser-based micro/nanofabrication in one, two and three dimensions. Frontiers of Optoelectronics, 2015, 8, 351-378.	3.7	36
23	Compact fixed wavelength femtosecond oscillators for multi-photon imaging. Proceedings of SPIE, 2015, , .	0.8	1
24	Two-photon polymerization: investigation of chemical and mechanical properties of resins using Raman microspectroscopy. Optics Letters, 2014, 39, 3034.	3.3	112
25	Multimodal microscopy with high resolution spectral focusing CARS. Proceedings of SPIE, 2014, , .	0.8	0
26	Characterization of two-photon polymerization process using Raman microspectroscopy. Proceedings of SPIE, 2014, , .	0.8	1
27	Three-dimensional sub-wavelength fabrication by integration of additive and subtractive femtosecond-laser direct writing. Materials Research Society Symposia Proceedings, 2013, 1499, 1.	0.1	0
28	Coherent anti-Stokes Raman scattering and spontaneous Raman spectroscopy and microscopy of microalgae with nitrogen depletion. Biomedical Optics Express, 2012, 3, 2896.	2.9	54
29	Two-photon polymerization with variable repetition rate bursts of femtosecond laser pulses. Optics Express, 2012, 20, 29890.	3.4	51
30	Simultaneous additive and subtractive three-dimensional nanofabrication using integrated two-photon polymerization and multiphoton ablation. Light: Science and Applications, 2012, 1, e6-e6.	16.6	158
31	Three-dimensional micro/nano-fabrication by integration of additive and subtractive femtosecond-laser direct writing processes. , 2012, , .		1
32	CARS module for multimodal microscopy. Proceedings of SPIE, 2011, , .	0.8	1
33	In situ and real time monitoring of two-photon polymerization using broadband coherent anti-Stokes Raman scattering microscopy. Optics Express, 2010, 18, 19219.	3.4	36
34	In Situ Monitoring of Two-Photon Polymerization Using Broadband CARS Microscopy. , 2010, , .		0
35	Effect of excitation wavelength on penetration depth in nonlinear optical microscopy of turbid media. Journal of Biomedical Optics, 2009, 14, 010508.	2.6	81
36	Morphological phase transitions in films. Journal of Luminescence, 2009, 129, 1831-1834.	3.1	12

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37	CARS Microspectrometer with a Suppressed Nonresonant Background. Springer Series in Chemical Physics, 2009, , 997-999.	0.2	1
38	Characterization of Microstructures Fabricated by Two-Photon Polymerization Using Coherent Anti-Stokes Raman Scattering Microscopy. Journal of Physical Chemistry B, 2009, 113, 12663-12668.	2.6	55
39	Chemical mapping of three-dimensional microstructures fabricated by two-photon polymerization using CARS microscopy. , 2009, , .		7
40	Two-photon absorption spectrum of the photoinitiator Lucirin TPO-L. Applied Physics A: Materials Science and Processing, 2008, 90, 633-636.	2.3	61
41	3D Cell Migration Studies using Two-Photon Engineered Polymer Scaffolds. Advanced Materials, 2008, 20, 4494-4498.	21.0	222
42	Femtosecond laser waveguide micromachining of PMMA films with azoaromatic chromophores. Optics Express, 2008, 16, 200.	3.4	47
43	Reversible birefringence in microstructures fabricated by two-photon absorption polymerization. Journal of Applied Physics, 2007, 102, .	2.5	26
44	Photoluminescence and Morphology of Alq ₃ Films and Four-Components Model. Journal of the Electrochemical Society, 2007, 154, J217.	2.9	14
45	Multiphoton Fabrication. Angewandte Chemie - International Edition, 2007, 46, 6238-6258.	13.8	541
46	Cover Picture: Multiphoton Fabrication (Angew. Chem. Int. Ed. 33/2007). Angewandte Chemie - International Edition, 2007, 46, 6201-6201.	13.8	8
47	Time evolution of the emission band of Alq ₃ films in open atmosphere. Journal of Luminescence, 2007, 122-123, 234-236.	3.1	8
48	Direct Laser Patterning of Conductive Wires on Three-Dimensional Polymeric Microstructures. Chemistry of Materials, 2006, 18, 2038-2042.	6.7	49
49	Rayleigh scattering and luminescence blue shift in tris(8-hydroxyquinoline)aluminum films. Journal of Luminescence, 2006, 119-120, 111-115.	3.1	26
50	Superhydrophobic Surfaces Prepared by Microstructuring of Silicon Using a Femtosecond Laser. Langmuir, 2006, 22, 4917-4919.	3.5	411
51	Reversible birefringence in microstructures fabricated by two-photon polymerization. , 2006, , .		0
52	A novel photoinitiator for microfabrication via two-photon polymerization. , 2006, , .		1
53	Polymer microcantilevers fabricated via multiphoton absorption polymerization. Applied Physics Letters, 2005, 86, 064105.	3.3	57
54	Multiphoton laser direct writing of two-dimensional silver structures. Optics Express, 2005, 13, 1275.	3.4	119

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55	Emission Intensity and Degradation Processes of Alq[sub 3] Films. <i>Electrochemical and Solid-State Letters</i> , 2005, 8, J24.	2.2	18
56	Toward the Fabrication of Hybrid Polymer/Metal Three-Dimensional Microstructures. <i>Springer Series in Chemical Physics</i> , 2005, , 807-809.	0.2	0
57	Acrylic-based resin with favorable properties for three-dimensional two-photon polymerization. <i>Journal of Applied Physics</i> , 2004, 95, 6072-6076.	2.5	184
58	Role of Humid Air Annealing on Emission Stability of Alq[sub 3]. <i>Journal of the Electrochemical Society</i> , 2004, 151, H93.	2.9	9
59	Three-Dimensional Micro- and Nanofabrication with Multiphoton Absorption. <i>Materials Research Society Symposia Proceedings</i> , 2004, 850, 19.	0.1	0
60	Effects of Chemical and Physical Agents on the Emission Properties of Alq[sub 3] Films. <i>Journal of the Electrochemical Society</i> , 2004, 151, H11.	2.9	15
61	Replication of Two-Photon-Polymerized Structures with Extremely High Aspect Ratios and Large Overhangs. <i>Journal of Physical Chemistry B</i> , 2004, 108, 11256-11258.	2.6	96
62	Field-emission studies on thin films of zinc oxide nanowires. <i>Applied Physics Letters</i> , 2003, 83, 4821-4823.	3.3	269
63	Efficient multiphoton polymerization for the fabrication of 3-dimensional microstructures. <i>Synthetic Metals</i> , 2003, 135-136, 11-12.	3.9	8
64	Novel ZnO nanostructures. , 2003, 5219, 99.		1
65	Photoluminescence of Alq[sub 3] Stabilized by a Phenolic Compound. <i>Electrochemical and Solid-State Letters</i> , 2002, 5, H14.	2.2	10
66	Multiphoton photopolymerization with a Ti:sapphire oscillator. , 2002, , .		2
67	Improvement of environmental stability of aluminum tris(8-hydroxyquinoline) thin films. <i>Thin Solid Films</i> , 2002, 417, 72-74.	1.8	14
68	Steric effect on the axial substitution of bis(dimethyl sulphoxide)phthalocyaninatoiron(II) by substituted imidazoles. <i>Inorganica Chimica Acta</i> , 1999, 295, 200-208.	2.4	8
69	Multiphoton Absorption: Three-Dimensional Nanofabrication. , 0, , 2821-2830.		0