Ludovic Rapp

List of Publications by Year
in descending order

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42	920	471061	454577
papers	citations	17	30
		h-index	g-index

43	43	43	900
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Experimental evidence of new tetragonal polymorphs of silicon formed through ultrafast laser-induced confined microexplosion. Nature Communications, 2015, 6, 7555.	5.8	122
2	Pulsed-laser printing of organic thin-film transistors. Applied Physics Letters, 2009, 95, .	1.5	86
3	Pulsed-laser printing of silver nanoparticles ink: control of morphological properties. Optics Express, 2011, 19, 21563.	1.7	85
4	Single-shot ultrafast laser processing of high-aspect-ratio nanochannels using elliptical Bessel beams. Optics Letters, 2017, 42, 4307.	1.7	71
5	High speed cleaving of crystals with ultrafast Bessel beams. Optics Express, 2017, 25, 9312.	1.7	52
6	High-speed multi-jets printing using laser forward transfer: time-resolved study of the ejection dynamics. Optics Express, 2014, 22, 17122.	1.7	37
7	Characterization of organic material micro-structures transferred by laser in nanosecond and picosecond regimes. Applied Surface Science, 2009, 255, 5439-5443.	3.1	35
8	Generation of high energy density by fs-laser-induced confined microexplosion. New Journal of Physics, 2013, 15, 025018.	1.2	33
9	Laser printing of a semiconducting oligomer as active layer in organic thin film transistors: Impact of a protecting triazene layer. Thin Solid Films, 2012, 520, 3043-3047.	0.8	32
10	Laser-induced forward transfer of polythiophene-based derivatives for fully polymeric thin film transistors. Organic Electronics, 2014, 15, 1868-1875.	1.4	30
11	Smart beam shaping for the deposition of solid polymeric material by laser forward transfer. Applied Physics A: Materials Science and Processing, 2014, 117, 333-339.	1.1	30
12	Multi-jets formation using laser forward transfer. Applied Surface Science, 2014, 302, 153-158.	3.1	30
13	Laser printing of air-stable high performing organic thin film transistors. Organic Electronics, 2012, 13, 2035-2041.	1.4	28
14	Photoluminescence from voids created by femtosecond-laser pulses inside cubic-BN. Optics Letters, 2015, 40, 5711.	1.7	27
15	Laser-induced forward transfer of multi-layered structures for OTFT applications. Applied Surface Science, 2015, 336, 11-15.	3.1	24
16	High-Speed Laser Printing of Silver Nanoparticles Ink. Journal of Laser Micro Nanoengineering, 2014, 9, 5-9.	0.4	24
17	Improvement in semiconductor laser printing using a sacrificial protecting layer for organic thin-film transistors fabrication. Applied Surface Science, 2011, 257, 5245-5249.	3.1	19
18	Multilayer laser printing for Organic Thin Film Transistors. Applied Surface Science, 2011, 257, 5152-5155.	3.1	17

#	Article	IF	Citations
19	Applications of laser printing for organic electronics. Proceedings of SPIE, 2013, , .	0.8	17
20	Functional multilayered capacitor pixels printed by picosecond laser-induced forward transfer using a smart beam shaping technique. Sensors and Actuators A: Physical, 2015, 224, 111-118.	2.0	16
21	Pulsed laser processing of poly(3,3â€´-didodecyl quarter thiophene) semiconductor for organic thin film transistors. Chemical Physics, 2015, 450-451, 32-38.	0.9	13
22	Ultrashort pulse laser ablation of steel in ambient air. Optics and Laser Technology, 2022, 148, 107757.	2.2	13
23	Confined micro-explosion induced by ultrashort laser pulse at SiO2/Si interface. Applied Physics A: Materials Science and Processing, 2014, 114, 33-43.	1.1	12
24	Ultrashort pulsed laser ablation of granite for stone conservation. Optics and Laser Technology, 2022, 151, 108057.	2.2	12
25	Investigations on laser printing of microcapacitors using poly (methyl methacrylate) dielectric thin films for organic electronics applications. Applied Surface Science, 2016, 374, 90-95.	3.1	10
26	Microcapacitors with controlled electrical capacity in the pFâ€“nF range printed by laser-induced forward transfer (LIFT). Organic Electronics, 2015, 20, 1-7.	1.4	9
27	Top gate copper phthalocyanine thin film transistors with laser-printed dielectric. Synthetic Metals, 2011, 161, 888-893.	2.1	8
28	Polyvinylphenol (PVP) microcapacitors printed by laser-induced forward transfer (LIFT): multilayered pixel design and thermal analysis investigations. Journal Physics D: Applied Physics, 2016, 49, 155301.	1.3	8
29	Femtosecond laser-induced confined microexplosion: tool for creation high-pressure phases. MRS Advances, 2016, 1, 1149-1155.	0.5	7
30	Ultrafast Laser Induced Confined Microexplosion: A New Route to Form Super-Dense Material Phases. Springer Series in Materials Science, 2014, , 3-26.	0.4	3
31	Comparative time resolved shadowgraphic imaging studies of nanosecond and picosecond laser transfer of organic materials. , 2008, , .		2
32	Pulsed-Laser Printing Process for Organic Thin Film Transistors Fabrication. , 2010, , .		2
33	Laser direct-printing for inter-connectivity and manufacturing of organic electronic components. AIP Conference Proceedings, 2012, , .	0.3	2
34	Dissipative solitons for real world optical solitons. , 2007, , .		1
35	Formation of nanochannels in sapphire with ultrashort Bessel pulses. Optics Express, 2022, 30, 6016.	1.7	1
36	Hearts and Homes: The Potential of Conservation Laser Cleaning for Post-disaster Wellbeing and Waste Reduction. Studies in Conservation, 2022, 67, 309-318.	0.6	1

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37	Selective localised modifications of silicon crystal by ultrafast laser induced micro-explosion. Proceedings of SPIE, 2013, , .	0.8	0
38	Experimental observation for new polymorphs of silicon formed through ultrafast-laser-induced microexplosion. , 2014, , .		0
39	Study on the transfer induced by laser of organic conducting thin films. , 2009, , .		0
40	Evidence of New High-Pressure Silicon Phases in Fs-Laser Induced Confined Microexplosion. , 2013, , .		0
41	Ultrafast laser-induced micro-explosion: material modification tool. , 2016, , .		0
42	High-Pressure Silicon Phase Created by High Power Ultrashort Laser Pulse at the Intensity of 1019 W/cm2. , 2020, , .		0