J Marcos FernÃ¡ndez-Pradas

List of Publications by Year
in descending order

77 papers	2,991 citations	147566 31 h-index	174990 52 g-index
78 all docs	78 docs citations	78 times ranked	2154 citing authors

#	Article	IF	Citations
1	DNA deposition through laser induced forward transfer. Biosensors and Bioelectronics, 2005, 20, 1638-1642.	5.3	186
2	Preparation of functional DNA microarrays through laser-induced forward transfer. Applied Physics Letters, 2004, 85, 1639-1641.	1.5	158
3	Time-resolved imaging of the laser forward transfer of liquids. Journal of Applied Physics, 2009, 106, .	1.1	128
4	Laser-induced forward transfer of liquids: Study of the droplet ejection process. Journal of Applied Physics, 2006, 99, 084909.	1.1	122
5	Coloring of titanium through laser oxidation: comparative study with anodizing. Surface and Coatings Technology, 2004, 187, 106-112.	2.2	118
6	Mechanical properties of calcium phosphate coatings deposited by laser ablation. Biomaterials, 2000, 21, 967-971.	5.7	115
7	Study of the laser-induced forward transfer of liquids for laser bioprinting. Applied Surface Science, 2007, 253, 7855-7859.	3.1	105
8	Laser-induced forward transfer of biomolecules. Thin Solid Films, 2004, 453-454, 27-30.	0.8	102
9	Deposition of hydroxyapatite thin films by excimer laser ablation. Thin Solid Films, 1998, 317, 393-396.	0.8	94
10	Jet formation in the laser forward transfer of liquids. Applied Physics A: Materials Science and Processing, 2008, 93, 453-456.	1.1	94
11	Behavior in simulated body fluid of calcium phosphate coatings obtained by laser ablation. Biomaterials, 2000, 21, 1861-1865.	5.7	87
12	Bone growth on and resorption of calcium phosphate coatings obtained by pulsed laser deposition. , 2000, 49, 43-52.		80
13	Influence of thickness on the properties of hydroxyapatite coatings deposited by KrF laser ablation. Biomaterials, 2001, 22, 2171-2175.	5.7	76
14	Dissolution behaviour of calcium phosphate coatings obtained by laser ablation. Biomaterials, 1998, 19, 1483-1487.	5.7	73
15	Sessile droplet formation in the laser-induced forward transfer of liquids: A time-resolved imaging study. Thin Solid Films, 2010, 518, 5321-5325.	0.8	65
16	Novel laser printing technique for miniaturized biosensors preparation. Sensors and Actuators B: Chemical, 2010, 145, 596-600.	4.0	62
17	Laser-generated liquid microjets: correlation between bubble dynamics and liquid ejection. Microfluidics and Nanofluidics, 2014, 16, 55-63.	1.0	62
18	A surface acoustic wave bio-electronic nose for detection of volatile odorant molecules. Biosensors and Bioelectronics, 2015, 67, 516-523.	5.3	58

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19	Laser direct writing of biomolecule microarrays. Applied Physics A: Materials Science and Processing, 2004, 79, 949-952.	1.1	57
20	Printing biological solutions through laser-induced forward transfer. Applied Physics A: Materials Science and Processing, 2008, 93, 941-945.	1.1	57
21	Influence of the interface layer on the adhesion of pulsed laser deposited hydroxyapatite coatings on titanium alloy. Applied Surface Science, 2002, 195, 31-37.	3.1	55
22	In vitro bioactivity of laser ablation pseudowollastonite coating. Biomaterials, 2004, 25, 1983-1990.	5.7	53
23	Liquids microprinting through laser-induced forward transfer. Applied Surface Science, 2009, 255, 5342-5345.	3.1	52
24	Film-free laser forward printing of transparent and weakly absorbing liquids. Optics Express, 2010, 18, 21815.	1.7	47
25	Low-Cost Fabrication of Printed Electronics Devices through Continuous Wave Laser-Induced Forward Transfer. ACS Applied Materials & Interfaces, 2017, 9, 29412-29417.	4.0	45
26	Laser-induced forward transfer for printed electronics applications. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	39
27	Conductive silver ink printing through the laser-induced forward transfer technique. Applied Surface Science, 2015, 336, 304-308.	3.1	38
28	Preparation of surface acoustic wave odor sensors by laser-induced forward transfer. Sensors and Actuators B: Chemical, 2014, 192, 369-377.	4.0	37
29	Laser fabricated microchannels inside photostructurable glass-ceramic. Applied Surface Science, 2009, 255, 5499-5502.	3.1	35
30	Femtosecond laser ablation of polymethyl-methacrylate with high focusing control. Applied Surface Science, 2013, 278, 185-189.	3.1	35
31	Growth of large microcones in steel under multipulsed Nd:YAG laser irradiation. Applied Physics A: Materials Science and Processing, 2006, 83, 417-420.	1.1	34
32	Characterization of calcium phosphate coatings deposited by Nd:YAG laser ablation at 355nm: influence of thickness. Biomaterials, 2002, 23, 1989-1994.	5.7	33
33	Influence of solution properties in the laser forward transfer of liquids. Applied Surface Science, 2012, 258, 9379-9384.	3.1	32
34	Pulsed laser deposition of pseudowollastonite coatings. Biomaterials, 2002, 23, 2057-2061.	5.7	31
35	Laser-induced forward transfer: Propelling liquids with light. Applied Surface Science, 2017, 418, 559-564.	3.1	31
36	Laser-induced forward transfer of conductive screen-printing inks. Applied Surface Science, 2020, 507, 145047.	3.1	30

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37	Deposition and characterization of lines printed through laser-induced forward transfer. Applied Physics A: Materials Science and Processing, 2013, 110, 751-755.	1.1	27
38	Transparent and conductive silver nanowires networks printed by laser-induced forward transfer. Applied Surface Science, 2019, 476, 828-833.	3.1	27
39	Laser-Induced Forward Transfer: A Method for Printing Functional Inks. Crystals, 2020, 10, 651.	1.0	25
40	Hydroxyapatite coatings grown by pulsed laser deposition with a beam of 355 nm wavelength. Journal of Materials Research, 1999, 14, 4715-4719.	1.2	23
41	Interaction between jets during laser-induced forward transfer. Applied Physics Letters, 2014, 105, 014101.	1.5	23
42	Study of liquid deposition during laser printing of liquids. Applied Surface Science, 2011, 257, 5255-5258.	3.1	21
43	Laser-induced forward transfer of low viscosity inks. Applied Surface Science, 2017, 418, 530-535.	3.1	21
44	Application of dissolution experiments to characterise the structure of pulsed laser-deposited calcium phosphate coatings. Biomaterials, 1999, 20, 1401-1405.	5.7	19
45	Liquids microprinting through a novel film-free femtosecond laser based technique. Applied Surface Science, 2011, 257, 5190-5194.	3.1	19
46	Applications of laser printing for organic electronics. Proceedings of SPIE, 2013, , .	0.8	17
47	Printing of silver conductive lines through laser-induced forward transfer. Applied Surface Science, 2016, 374, 265-270.	3.1	16
48	Droplet printing through bubble contact in the laser forward transfer of liquids. Applied Surface Science, 2011, 257, 2825-2829.	3.1	15
49	Surface ablation of transparent polymers with femtosecond laser pulses. Applied Surface Science, 2014, 302, 226-230.	3.1	13
50	Spraying dynamics in continuous wave laser printing of conductive inks. Scientific Reports, 2018, 8, 7999.	1.6	13
51	On the correlation between droplet volume and irradiation conditions in the laser forward transfer of liquids. Applied Physics A: Materials Science and Processing, 2012, 109, 5-14.	1.1	12
52	Surface modification of UHMWPE with infrared femtosecond laser. Applied Surface Science, 2012, 258, 9256-9259.	3.1	12
53	Film-free laser printing: Jetting dynamics analyzed through time-resolved imaging. Applied Surface Science, 2014, 302, 303-308.	3.1	12
54	Interaction effects of an excimer laser beam with hydroxyapatite targets. Applied Surface Science, 1997, 109-110, 384-388.	3.1	11

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55	Study of the plume generated by Nd:YAG laser ablation of a hydroxyapatite target. Applied Physics A: Materials Science and Processing, 1999, 69, S183-S186.	1.1	11
56	Evolution of the deposition rate during pulsed laser deposition of hydroxyapatite coatings and its relation with target morphology. Applied Physics A: Materials Science and Processing, 2001, 72, 613-618.	1.1	11
57	Microdroplet deposition through a film-free laser forward printing technique. Applied Surface Science, 2012, 258, 9412-9416.	3.1	10
58	Precise surface modification of polymethyl-methacrylate with near-infrared femtosecond laser. Applied Surface Science, 2015, 336, 170-175.	3.1	9
59	<title>Production of biomolecule microarrays through laser induced forward transfer</title>. , 2004, , .		8
60	Influence of preheating and hematite content of clay brick pavers on the characteristics of lines marked with a Nd:YAG laser. Applied Surface Science, 2006, 253, 2272-2277.	3.1	8
61	Laser printing of enamels on tiles. Applied Surface Science, 2007, 253, 7733-7737.	3.1	8
62	Femtosecond laser surface ablation of polymethyl-methacrylate with position control throughz-scan. Journal Physics D: Applied Physics, 2015, 48, 335302.	1.3	8
63	Inhomogeneity of calcium phosphate coatings deposited by laser ablation at high deposition rate. Applied Physics A: Materials Science and Processing, 2003, 76, 251-256.	1.1	7
64	Beam waist position study for surface modification of polymethyl-methacrylate with femtosecond laser pulses. Applied Surface Science, 2016, 374, 353-358.	3.1	7
65	Superparamagnetic Nanoparticles with Efficient Near-Infrared Photothermal Effect at the Second Biological Window. Molecules, 2020, 25, 5315.	1.7	7
66	Laser-Induced Forward Transfer: A Laser-Based Technique for Biomolecules Printing. , 2010, , 53-80.		7
67	The laser-induced forward transfer technique for microprinting. , 2010, , 367-393.		6
68	3D features of modified photostructurable glassâ€“ceramic with infrared femtosecond laser pulses. Applied Surface Science, 2011, 257, 5219-5222.	3.1	6
69	The Combined Use of Gold Nanoparticles and Infrared Radiation Enables Cytosolic Protein Delivery. Chemistry - A European Journal, 2021, 27, 4670-4675.	1.7	6
70	Microchannel formation through FoturanÂ® with infrared femtosecond and ultraviolet nanosecond lasers. Journal of Micromechanics and Microengineering, 2011, 21, 025005.	1.5	5
71	Irradiation of glass with infrared femtosecond laser pulses. Applied Physics A: Materials Science and Processing, 2013, 112, 203-207.	1.1	5
72	Analysis of the interface between a pulsed laser deposited calcium phosphate coating and a titanium alloy substrate. Applied Physics A: Materials Science and Processing, 2005, 80, 325-331.	1.1	3

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73	Marking of lines on clay brick pavers by vitrification with a Nd:YAG laser. Journal of Laser Applications, 2006, 18, 156-160.	0.8	3
74	Production of miniaturized biosensors through laser-induced forward transfer. , 2007, , .		3
75	Film-free laser microprinting of transparent solutions. , 2013, , .		1
76	Laser microfabrication of biomedical devices: time-resolved microscopy of the printing process. Proceedings of SPIE, 2013, , .	0.8	0
77	Film-free laser microprinting of complex materials. , 2013, , .		0