

Ioanna Zergioti

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/641793/publications.pdf>

Version: 2024-02-01

60
papers

1,418
citations

394421

19
h-index

361022

35
g-index

65
all docs

65
docs citations

65
times ranked

1447
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanodroplets deposited in microarrays by femtosecond Ti:sapphire laser-induced forward transfer. Applied Physics Letters, 2006, 89, 193107.	3.3	135
2	Laser-Induced Fluorescence in Artwork Diagnostics: An Application in Pigment Analysis. Applied Spectroscopy, 1996, 50, 1331-1334.	2.2	88
3	Laser-induced forward transfer of silver nanoparticle ink: time-resolved imaging of the jetting dynamics and correlation with the printing quality. Microfluidics and Nanofluidics, 2014, 16, 493-500.	2.2	79
4	Superamphiphobic Polymeric Surfaces Sustaining Ultrahigh Impact Pressures of Aqueous High- and Low-Surface-Tension Mixtures, Tested with Laser-Induced Forward Transfer of Drops. Advanced Materials, 2015, 27, 2231-2235.	21.0	78
5	Laser induced forward transfer of Ag nanoparticles ink deposition and characterization. Applied Surface Science, 2014, 297, 40-44.	6.1	68
6	Liquid phase direct laser printing of polymers for chemical sensing applications. Applied Physics Letters, 2008, 93, .	3.3	67
7	Polymer/carbon nanotube composite patterns via laser induced forward transfer. Applied Physics Letters, 2010, 96, .	3.3	48
8	Selective Laser Sintering of Laser Printed Ag Nanoparticle Micropatterns at High Repetition Rates. Materials, 2018, 11, 2142.	2.9	46
9	Bioprinting for Liver Transplantation. Bioengineering, 2019, 6, 95.	3.5	45
10	Ballistic laser-assisted solid transfer (BLAST) from a thin film precursor. Optics Express, 2008, 16, 3249.	3.4	37
11	Jetting dynamics of Newtonian and non-Newtonian fluids via laser-induced forward transfer: Experimental and simulation studies. Applied Surface Science, 2019, 465, 136-142.	6.1	37
12	A photosynthetic biosensor with enhanced electron transfer generation realized by laser printing technology. Analytical and Bioanalytical Chemistry, 2012, 402, 3237-3244.	3.7	32
13	Ultraviolet laser microstructuring of silicon and the effect of laser pulse duration on the surface morphology. Applied Surface Science, 2006, 252, 4462-4466.	6.1	29
14	A polyphenol biosensor realized by laser printing technology. Sensors and Actuators B: Chemical, 2014, 193, 301-305.	7.8	29
15	Direct laser printing of graphene oxide for resistive chemosensors. Optics and Laser Technology, 2016, 82, 163-169.	4.6	29
16	Direct laser immobilization of photosynthetic material on screen printed electrodes for amperometric biosensor. Applied Physics Letters, 2011, 98, .	3.3	27
17	Surface functionalization studies and direct laser printing of oligonucleotides toward the fabrication of a micromembrane DNA capacitive biosensor. Sensors and Actuators B: Chemical, 2012, 175, 123-131.	7.8	25
18	A time-resolved shadowgraphic study of laser transfer of silver nanoparticle ink. Applied Surface Science, 2013, 278, 71-76.	6.1	25

#	ARTICLE	IF	CITATIONS
19	Heavy metal ion detection using DNAzyme-modified platinum nanoparticle networks. <i>Sensors and Actuators B: Chemical</i> , 2017, 239, 962-969.	7.8	25
20	Laser printing and characterization of semiconducting polymers for organic electronics. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 110, 559-563.	2.3	20
21	Laser-Induced Forward Transfer of High Viscous, Non-Newtonian Silver Nanoparticle Inks: Jet Dynamics and Temporal Evolution of the Printed Droplet Study. <i>Advanced Engineering Materials</i> , 2019, 21, 1900605.	3.5	20
22	Detection of DNA mutations using a capacitive micro-membrane array. <i>Biosensors and Bioelectronics</i> , 2010, 26, 1588-1592.	10.1	19
23	On-Demand Laser Printing of Picoliter-Sized, Highly Viscous, Adhesive Fluids: Beyond Inkjet Limitations. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800440.	3.7	19
24	Sub-picosecond ultraviolet laser filamentation-induced bulk modifications in fused silica. <i>Applied Physics A: Materials Science and Processing</i> , 2005, 81, 241-244.	2.3	18
25	Sticking of droplets on slippery superhydrophobic surfaces by laser induced forward transfer. <i>Applied Physics Letters</i> , 2013, 103, 024104.	3.3	18
26	Label-free DNA biosensor based on resistance change of platinum nanoparticles assemblies. <i>Biosensors and Bioelectronics</i> , 2016, 81, 388-394.	10.1	18
27	Single Step Laser Transfer and Laser Curing of Ag NanoWires: A Digital Process for the Fabrication of Flexible and Transparent Microelectrodes. <i>Materials</i> , 2018, 11, 1036.	2.9	18
28	Microstructuring of lithium niobate single crystals using pulsed UV laser modification of etching characteristics. <i>Optical Materials</i> , 2002, 20, 125-134.	3.6	17
29	Laser annealing of Al implanted silicon carbide: Structural and optical characterization. <i>Applied Surface Science</i> , 2007, 253, 7912-7916.	6.1	17
30	Detection of the biotin-streptavidin interaction by exploiting surface stress changes on ultrathin Si membranes. <i>Microelectronic Engineering</i> , 2009, 86, 1495-1498.	2.4	16
31	Biosensors by means of the laser induced forward transfer technique. <i>Applied Surface Science</i> , 2013, 278, 250-254.	6.1	16
32	Facile and Low-Cost SPE Modification Towards Ultra-Sensitive Organophosphorus and Carbamate Pesticide Detection in Olive Oil. <i>Molecules</i> , 2020, 25, 4988.	3.8	16
33	Laser Printing of Organic Electronics and Sensors. <i>Journal of Laser Micro Nanoengineering</i> , 2013, 8, 30-34.	0.1	16
34	Laser printing of polythiophene for organic electronics. <i>Applied Surface Science</i> , 2011, 257, 5148-5151.	6.1	15
35	A study on the pulsed laser printing of liquid-phase exfoliated graphene for organic electronics. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 117, 301-306.	2.3	15
36	The effect of electromigration on the lifetime and performance of flexible interconnections fabricated by laser printing and sintering. <i>Applied Surface Science</i> , 2020, 506, 144968.	6.1	15

#	ARTICLE	IF	CITATIONS
37	Direct Creation of Biopatterns via a Combination of Laser-Based Techniques and Click Chemistry. Langmuir, 2017, 33, 848-853.	3.5	14
38	Laser-induced backward transfer of monolayer graphene. Applied Surface Science, 2020, 533, 147488.	6.1	14
39	<i>In-situ</i> sequential laser transfer and laser reduction of graphene oxide films. Applied Physics Letters, 2018, 112, .	3.3	13
40	Structural modifications in fused silica induced by ultraviolet fs laser filaments. Applied Surface Science, 2007, 253, 7865-7868.	6.1	11
41	ZnO nanoparticles produced by novel reactive physical deposition process. Applied Surface Science, 2011, 257, 5366-5369.	6.1	11
42	Indium Tin Oxide-Free Inverted Organic Photovoltaics Using Laser-Induced Forward Transfer Silver Nanoparticle Embedded Metal Grids. ACS Applied Electronic Materials, 0, , .	4.3	10
43	Laser studies of metallic artworks. Applied Physics A: Materials Science and Processing, 2010, 101, 349-355.	2.3	9
44	Direct laser printing of thin-film polyaniline devices. Applied Physics A: Materials Science and Processing, 2013, 110, 623-628.	2.3	9
45	Laser direct writing of 40 GHz RF components on flexible substrates. Optics and Laser Technology, 2016, 79, 108-114.	4.6	9
46	Laser printing of Au nanoparticles with sub-micron resolution for the fabrication of monochromatic reflectors on stretchable substrates. Optics and Laser Technology, 2021, 135, 106660.	4.6	9
47	Comparative Assessment of Affinity-Based Techniques for Oriented Antibody Immobilization towards Immunosensor Performance Optimization. Journal of Sensors, 2019, 2019, 1-10.	1.1	8
48	A Miniature Bio-Photonics Companion Diagnostics Platform for Reliable Cancer Treatment Monitoring in Blood Fluids. Sensors, 2021, 21, 2230.	3.8	8
49	A direct transfer solution for digital laser printing of CVD graphene. 2D Materials, 2021, 8, 045017.	4.4	7
50	Laser-Induced Forward Transfer (LIFT) Technique as an Alternative for Assembly and Packaging of Electronic Components. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-8.	2.9	7
51	Growth of polycrystalline La _{0.5} Sr _{0.5} CoO ₃ films by femtosecond pulsed laser deposition. Applied Physics A: Materials Science and Processing, 2004, 79, 911-914.	2.3	6
52	Time-resolved imaging and immobilization study of biomaterials on hydrophobic and superhydrophobic surfaces by means of laser-induced forward transfer. Laser Physics Letters, 2014, 11, 105603.	1.4	6
53	Laser Induced Backward Transfer of ultra-thin metal structures. Applied Surface Science, 2020, 512, 145730.	6.1	6
54	Eco-Friendly Lead-Free Solder Paste Printing via Laser-Induced Forward Transfer for the Assembly of Ultra-Fine Pitch Electronic Components. Materials, 2021, 14, 3353.	2.9	6

#	ARTICLE	IF	CITATIONS
55	Phosphate Modified Screen Printed Electrodes by LIFT Treatment for Glucose Detection. Biosensors, 2018, 8, 91.	4.7	5
56	Parametric Study of Jet/Droplet Formation Process during LIFT Printing of Living Cell-Laden Bioink. Micromachines, 2021, 12, 1408.	2.9	5
57	Apta- and Immuno-Sensors Performance Optimization: A Comparative Study of Surface Functionalization Techniques. Proceedings (mdpi), 2018, 2, .	0.2	0
58	Erratum to "Comparative Assessment of Affinity-Based Techniques for Oriented Antibody Immobilization towards Immunosensor Performance Optimization" Journal of Sensors, 2019, 2019, 1-1.	1.1	0
59	Digital printing and functionalization of Surfaces for Biosensing Applications. IEEE Sensors Journal, 2021, , 1-1.	4.7	0
60	Laser printing and immobilization of biomolecules for optical sensors applications. , 2017, , .		0