

Christos Boutopoulos

List of Publications by Year in descending order

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36
papers

807
citations

430442

18
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500791

28
g-index

36
all docs

36
docs citations

36
times ranked

1038
citing authors

#	ARTICLE	IF	CITATIONS
1	Capacitive microsystems for biological sensing. <i>Biosensors and Bioelectronics</i> , 2011, 27, 1-11.	5.3	117
2	Laser-induced forward transfer of silver nanoparticle ink: time-resolved imaging of the jetting dynamics and correlation with the printing quality. <i>Microfluidics and Nanofluidics</i> , 2014, 16, 493-500.	1.0	79
3	Laser induced forward transfer of Ag nanoparticles ink deposition and characterization. <i>Applied Surface Science</i> , 2014, 297, 40-44.	3.1	68
4	Liquid phase direct laser printing of polymers for chemical sensing applications. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	67
5	Polymer/carbon nanotube composite patterns via laser induced forward transfer. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	48
6	Rational Design of Plasmonic Nanoparticles for Enhanced Cavitation and Cell Perforation. <i>Nano Letters</i> , 2016, 16, 3187-3194.	4.5	41
7	Cell-specific optoporation with near-infrared ultrafast laser and functionalized gold nanoparticles. <i>Nanoscale</i> , 2015, 7, 17836-17847.	2.8	39
8	Multiscale modeling of plasmonic enhanced energy transfer and cavitation around laser-excited nanoparticles. <i>Nanoscale</i> , 2017, 9, 3023-3032.	2.8	35
9	A photosynthetic biosensor with enhanced electron transfer generation realized by laser printing technology. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 3237-3244.	1.9	32
10	A polyphenol biosensor realized by laser printing technology. <i>Sensors and Actuators B: Chemical</i> , 2014, 193, 301-305.	4.0	29
11	Direct laser immobilization of photosynthetic material on screen printed electrodes for amperometric biosensor. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	27
12	A chemical sensor microarray realized by laser printing of polymers. <i>Sensors and Actuators B: Chemical</i> , 2010, 150, 148-153.	4.0	26
13	Cell perforation mediated by plasmonic bubbles generated by a single near infrared femtosecond laser pulse. <i>Journal of Biophotonics</i> , 2016, 9, 26-31.	1.1	25
14	Computational Design of Durable Spherical Nanoparticles with Optimal Material, Shape, and Size for Ultrafast Plasmon-Enhanced Nanocavitation. <i>ACS Photonics</i> , 2016, 3, 2158-2169.	3.2	21
15	Drop-on-demand cell bioprinting via Laser Induced Side Transfer (LIST). <i>Scientific Reports</i> , 2020, 10, 9730.	1.6	21
16	Dynamic imaging of a single gold nanoparticle in liquid irradiated by off-resonance femtosecond laser. <i>Nanoscale</i> , 2015, 7, 11758-11765.	2.8	20
17	Detection of DNA mutations using a capacitive micro-membrane array. <i>Biosensors and Bioelectronics</i> , 2010, 26, 1588-1592.	5.3	19
18	Sticking of droplets on slippery superhydrophobic surfaces by laser induced forward transfer. <i>Applied Physics Letters</i> , 2013, 103, 024104.	1.5	18

#	ARTICLE	IF	CITATIONS
19	Laser annealing of Al implanted silicon carbide: Structural and optical characterization. Applied Surface Science, 2007, 253, 7912-7916.	3.1	17
20	Detection of the biotin-streptavidin interaction by exploiting surface stress changes on ultrathin Si membranes. Microelectronic Engineering, 2009, 86, 1495-1498.	1.1	16
21	Bioprinting of Adult Dorsal Root Ganglion (DRG) Neurons Using Laser-Induced Side Transfer (LIST). Micromachines, 2021, 12, 865.	1.4	7
22	Evaluation of capacitive surface stress biosensors. Microelectronic Engineering, 2012, 90, 37-39.	1.1	6
23	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.	0.6	6
24	Photon-induced generation and spatial control of extreme pressure at the nanoscale with a gold bowtie nano-antenna platform. Nanoscale, 2016, 8, 17196-17203.	2.8	4
25	Etching-enabled extreme miniaturization of graded-index fiber-based optical coherence tomography probes. Journal of Biomedical Optics, 2019, 25, 1.	1.4	4
26	A needle-like optofluidic probe enables targeted intracellular delivery by confining light-nanoparticle interaction on single cell. Nanoscale, 2018, 10, 21871-21878.	2.8	3
27	Hybrid analytical/numerical modeling of nanosecond laser-induced micro-jets generated by liquid confining devices. Journal of Fluids and Structures, 2020, 98, 103079.	1.5	3
28	Dynamic imaging of transient bubbles generated by femtosecond irradiation of plasmonic nanoparticles in suspensions and cell environment. , 2014, , .		2
29	Self-limited nanosecond laser-induced bubble growth in sealed containers. Applied Physics Letters, 2021, 119, .	1.5	2
30	Development and ex-vivo validation of 36G polyimide cannulas integrating a guiding miniaturized OCT probe for robotic assisted subretinal injections. Biomedical Optics Express, 2022, 13, 850.	1.5	2
31	Nanophotonics Enable Targeted Photothermal Silencing of Nociceptor Neurons. Small, 2022, 18, e2103364.	5.2	2
32	Self-Aligned Process for the Development of Surface Stress Capacitive Biosensor Arrays. Procedia Engineering, 2011, 25, 835-838.	1.2	1
33	Laser immobilization of photosynthetic material on Screen Printed Electrodes. , 2011, , .		0
34	Modeling ultrafast laser-induced nanocavitation around plasmonic nanoparticles (Conference) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142		
35	A Smart Vitrector Equipped by a Fiber-Based OCT Sensor Mitigates Intentional Attempts at Creating Iatrogenic Retinal Breaks During Vitrectomy in Pigs. Translational Vision Science and Technology, 2021, 10, 19.	1.1	0
36	Nanophotonics Enable Targeted Photothermal Silencing of Nociceptor Neurons (Small 14/2022). Small, 2022, 18, .	5.2	0