Andreas E Vasdekis

List of Publications by Year
in descending order

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46 papers	1,052 citations	471509 17 h-index	414414 32 g-index
50 all docs	50 docs citations	50 times ranked	1643 citing authors

#	Article	IF	Citations
1	Precision Intracellular Delivery Based on Optofluidic Polymersome Rupture. ACS Nano, 2012, 6, 7850-7857.	14.6	101
2	Optofluidic modulator based on peristaltic nematogen microflows. Nature Photonics, 2011, 5, 234-238.	31.4	98
3	Diode pumped distributed Bragg reflector lasers based on a dye-to-polymer energy transfer blend. Optics Express, 2006, 14, 9211.	3.4	88
4	Review of methods to probe single cell metabolism and bioenergetics. Metabolic Engineering, 2015, 27, 115-135.	7.0	82
5	Optofluidic evanescent dye laser based on a distributed feedback circular grating. Applied Physics Letters, 2009, 94, 161110.	3.3	66
6	Low-order distributed feedback optofluidic dye laser with reduced threshold. Applied Physics Letters, 2009, 94, .	3.3	56
7	HighâCCain Broadband SolidâCCState Optical Amplifier using a Semiconducting Copolymer. Advanced Materials, 2009, 21, 107-110.	21.0	53
8	Alexa Fluor-Labeled Fluorescent Cellulose Nanocrystals for Bioimaging Solid Cellulose in Spatially Structured Microenvironments. Bioconjugate Chemistry, 2015, 26, 593-601.	3.6	52
9	Fluidic fibre dye lasers. Optics Express, 2007, 15, 3962.	3.4	45
10	All-optical switching in an optofluidic polydimethylsiloxane: Liquid crystal grating defined by cast-molding. Applied Physics Letters, 2010, 96, 131112.	3.3	40
11	Elastomer based tunable optofluidic devices. Lab on A Chip, 2012, 12, 3590.	6.0	37
12	Low threshold edge emitting polymer distributed feedback laser based on a square lattice. Applied Physics Letters, 2005, 86, 161102.	3.3	34
13	Broadband solid state optical amplifier based on a semiconducting polymer. Applied Physics Letters, 2006, 89, 201119.	3.3	34
14	Eliciting the impacts of cellular noise on metabolic trade-offs by quantitative mass imaging. Nature Communications, 2019, 10, 848.	12.8	29
15	Microbial phenotypic heterogeneity in response to a metabolic toxin: Continuous, dynamically shifting distribution of formaldehyde tolerance in Methylobacterium extorquens populations. PLoS Genetics, 2019, 15, e1008458.	3.5	25
16	Solvent immersion imprint lithography. Lab on A Chip, 2014, 14, 2072.	6.0	21
17	Enhancing Single Molecule Imaging in Optofluidics and Microfluidics. International Journal of Molecular Sciences, 2011, 12, 5135-5156.	4.1	20
18	Microfluidic Assays for DNA Manipulation Based on a Block Copolymer Immobilization Strategy. Biomacromolecules, 2010, 11, 827-831.	5.4	17

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19	Silicon oxide deposition for enhanced optical switching in polydimethylsiloxane-liquid crystal hybrids. Optics Express, 2011, 19, 23532.	3.4	17
20	Robust microbial cell segmentation by opticalâ€phase thresholding with minimal processing requirements. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2017, 91, 443-449.	1.5	17
21	Electro-switchable polydimethylsiloxane-based optofluidics. Lab on A Chip, 2012, 12, 3760.	6.0	13
22	An unexpected phase transformation of ceria nanoparticles in aqueous media. Journal of Materials Research, 2019, 34, 465-473.	2.6	13
23	Deep learning classification of lipid droplets in quantitative phase images. PLoS ONE, 2021, 16, e0249196.	2.5	12
24	Single microbe trap and release in sub-microfluidics. RSC Advances, 2013, 3, 6343.	3.6	11
25	Microbial metabolic noise. WIREs Mechanisms of Disease, 2021, 13, e1512.	3.3	11
26	Stimuli responsive diffraction gratings in soft-composite materials. Journal Physics D: Applied Physics, 2019, 52, 053001.	2.8	10
27	Electro and pressure tunable cholesteric liquid crystal devices based on ion-implanted flexible substrates. Journal of Materials Chemistry C, 2013, 1, 7798.	5.5	9
28	Modular polymer biosensors by solvent immersion imprint lithography. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 98-103.	2.1	8
29	Solventâ€assisted prototyping of microfluidic and optofluidic microsystems in polymers. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 1681-1686.	2.1	7
30	Exploiting Bioprocessing Fluctuations to Elicit the Mechanistics of De Novo Lipogenesis in Yarrowia lipolytica. PLoS ONE, 2017, 12, e0168889.	2.5	5
31	Optofluidic Microstructures Containing Liquid Crystals. Molecular Crystals and Liquid Crystals, 2013, 576, 135-140.	0.9	4
32	Holographic recording of sub-micron period gratings and photonic crystals in the photoresist SU8. , 2005, , .		3
33	Photon-Sparse, Poisson Light-Sheet Microscopy. ACS Photonics, 2021, 8, 2876-2881.	6.6	3
34	Optofluidic distributed feedback dye laser via evanescent gain. , 2010, , .		2
35	Optofluidics of plants. APL Photonics, 2016, 1, .	5.7	2
36	Mesoscale Polymer Dissolution Probed by Raman Spectroscopy and Molecular Simulations. Journal of Physical Chemistry B, 2016, 120, 10581-10587.	2.6	2

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37	Density fluctuations, homeostasis, and reproduction effects in bacteria. Communications Biology, 2022, 5, 397.	4.4	2
38	Optofluidic evanescent dye laser. , 2009, , .		0
39	Organic Semiconductor Lasers. ECS Transactions, 2009, 25, 513-523.	0.5	0
40	Tunable optofluidic dye laser with integrated air-gap etalon. , 2010, , .		0
41	Tunable optofluidic dye laser with novel cavity. , 2010, , .		0
42	Optofluidic devices and applications. , 2012, , .		0
43	Vesicle photonics in biology with a focus on single cell analysis. , 2014, , .		0
44	Title is missing!. , 2019, 15, e1008458.		0
45	Title is missing!. , 2019, 15, e1008458.		0
46	Integrating the Airy Beam Illumination with Photon-Sparse Imaging to Accelerate Multimodal Light-Sheet Microscopy. , 2022, , .		0