

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	Density fluctuations, homeostasis, and reproduction effects in bacteria. <i>Communications Biology</i> , 2022, 5, 397.	4.4	2
2	Integrating the Airy Beam Illumination with Photon-Sparse Imaging to Accelerate Multimodal Light-Sheet Microscopy. , 2022, , .		0
3	Microbial metabolic noise. <i>WIREs Mechanisms of Disease</i> , 2021, 13, e1512.	3.3	11
4	Deep learning classification of lipid droplets in quantitative phase images. <i>PLoS ONE</i> , 2021, 16, e0249196.	2.5	12
5	Photon-Sparse, Poisson Light-Sheet Microscopy. <i>ACS Photonics</i> , 2021, 8, 2876-2881.	6.6	3
6	Microbial phenotypic heterogeneity in response to a metabolic toxin: Continuous, dynamically shifting distribution of formaldehyde tolerance in <i>Methylobacterium extorquens</i> populations. <i>PLoS Genetics</i> , 2019, 15, e1008458.	3.5	25
7	Eliciting the impacts of cellular noise on metabolic trade-offs by quantitative mass imaging. <i>Nature Communications</i> , 2019, 10, 848.	12.8	29
8	An unexpected phase transformation of ceria nanoparticles in aqueous media. <i>Journal of Materials Research</i> , 2019, 34, 465-473.	2.6	13
9	Stimuli responsive diffraction gratings in soft-composite materials. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 053001.	2.8	10
10	Title is missing!. , 2019, 15, e1008458.		0
11	Title is missing!. , 2019, 15, e1008458.		0
12	Robust microbial cell segmentation by opticalâ€phase thresholding with minimal processing requirements. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2017, 91, 443-449.	1.5	17
13	Exploiting Bioprocessing Fluctuations to Elicit the Mechanistics of De Novo Lipogenesis in <i>Yarrowia lipolytica</i> . <i>PLoS ONE</i> , 2017, 12, e0168889.	2.5	5
14	Optofluidics of plants. <i>APL Photonics</i> , 2016, 1, .	5.7	2
15	Modular polymer biosensors by solvent immersion imprint lithography. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 98-103.	2.1	8
16	Mesoscale Polymer Dissolution Probed by Raman Spectroscopy and Molecular Simulations. <i>Journal of Physical Chemistry B</i> , 2016, 120, 10581-10587.	2.6	2
17	Solventâ€assisted prototyping of microfluidic and optofluidic microsystems in polymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 1681-1686.	2.1	7
18	Alexa Fluor-Labeled Fluorescent Cellulose Nanocrystals for Bioimaging Solid Cellulose in Spatially Structured Microenvironments. <i>Bioconjugate Chemistry</i> , 2015, 26, 593-601.	3.6	52

#	ARTICLE	IF	CITATIONS
19	Review of methods to probe single cell metabolism and bioenergetics. <i>Metabolic Engineering</i> , 2015, 27, 115-135.	7.0	82
20	Vesicle photonics in biology with a focus on single cell analysis. , 2014, , .		0
21	Solvent immersion imprint lithography. <i>Lab on A Chip</i> , 2014, 14, 2072.	6.0	21
22	Electro and pressure tunable cholesteric liquid crystal devices based on ion-implanted flexible substrates. <i>Journal of Materials Chemistry C</i> , 2013, 1, 7798.	5.5	9
23	Single microbe trap and release in sub-microfluidics. <i>RSC Advances</i> , 2013, 3, 6343.	3.6	11
24	Optofluidic Microstructures Containing Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2013, 576, 135-140.	0.9	4
25	Electro-switchable polydimethylsiloxane-based optofluidics. <i>Lab on A Chip</i> , 2012, 12, 3760.	6.0	13
26	Precision Intracellular Delivery Based on Optofluidic Polymersome Rupture. <i>ACS Nano</i> , 2012, 6, 7850-7857.	14.6	101
27	Elastomer based tunable optofluidic devices. <i>Lab on A Chip</i> , 2012, 12, 3590.	6.0	37
28	Optofluidic devices and applications. , 2012, , .		0
29	Silicon oxide deposition for enhanced optical switching in polydimethylsiloxane-liquid crystal hybrids. <i>Optics Express</i> , 2011, 19, 23532.	3.4	17
30	Optofluidic modulator based on peristaltic nematogen microflows. <i>Nature Photonics</i> , 2011, 5, 234-238.	31.4	98
31	Enhancing Single Molecule Imaging in Optofluidics and Microfluidics. <i>International Journal of Molecular Sciences</i> , 2011, 12, 5135-5156.	4.1	20
32	Optofluidic distributed feedback dye laser via evanescent gain. , 2010, , .		2
33	Tunable optofluidic dye laser with integrated air-gap etalon. , 2010, , .		0
34	Tunable optofluidic dye laser with novel cavity. , 2010, , .		0
35	All-optical switching in an optofluidic polydimethylsiloxane: Liquid crystal grating defined by cast-molding. <i>Applied Physics Letters</i> , 2010, 96, 131112.	3.3	40
36	Microfluidic Assays for DNA Manipulation Based on a Block Copolymer Immobilization Strategy. <i>Biomacromolecules</i> , 2010, 11, 827-831.	5.4	17

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37	Optofluidic evanescent dye laser. , 2009, , .		0
38	Organic Semiconductor Lasers. ECS Transactions, 2009, 25, 513-523.	0.5	0
39	High-Gain Broadband Solid-State Optical Amplifier using a Semiconducting Copolymer. Advanced Materials, 2009, 21, 107-110.	21.0	53
40	Low-order distributed feedback optofluidic dye laser with reduced threshold. Applied Physics Letters, 2009, 94, .	3.3	56
41	Optofluidic evanescent dye laser based on a distributed feedback circular grating. Applied Physics Letters, 2009, 94, 161110.	3.3	66
42	Fluidic fibre dye lasers. Optics Express, 2007, 15, 3962.	3.4	45
43	Diode pumped distributed Bragg reflector lasers based on a dye-to-polymer energy transfer blend. Optics Express, 2006, 14, 9211.	3.4	88
44	Broadband solid state optical amplifier based on a semiconducting polymer. Applied Physics Letters, 2006, 89, 201119.	3.3	34
45	Low threshold edge emitting polymer distributed feedback laser based on a square lattice. Applied Physics Letters, 2005, 86, 161102.	3.3	34
46	Holographic recording of sub-micron period gratings and photonic crystals in the photoresist SU8. , 2005, , .		3