

Michael Bassler

List of Publications by Year in descending order

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36
papers

1,496
citations

567281

15
h-index

526287

27
g-index

37
all docs

37
docs citations

37
times ranked

1084
citing authors

#	ARTICLE	IF	CITATIONS
1	Intrinsic SiC/SiO ₂ Interface States. <i>Physica Status Solidi A</i> , 1997, 162, 321-337.	1.7	516
2	Band offsets and electronic structure of SiC/SiO ₂ interfaces. <i>Journal of Applied Physics</i> , 1996, 79, 3108-3114.	2.5	243
3	Shallow electron traps at the 4H-SiC/SiO ₂ interface. <i>Applied Physics Letters</i> , 2000, 76, 336-338.	3.3	130
4	Elimination of SiC/SiO ₂ interface states by preoxidation ultraviolet-ozone cleaning. <i>Applied Physics Letters</i> , 1996, 68, 2141-2143.	3.3	116
5	Carbon cluster model for electronic states at interfaces. <i>Diamond and Related Materials</i> , 1997, 6, 1472-1475.	3.9	68
6	Fluorescence spectrometer-on-a-fluidic-chip. <i>Lab on A Chip</i> , 2007, 7, 626.	6.0	52
7	Label-Free High-Throughput Leukemia Detection by Holographic Microscopy. <i>Advanced Science</i> , 2018, 5, 1800761.	11.2	50
8	Spatially modulated fluorescence emission from moving particles. <i>Applied Physics Letters</i> , 2009, 94, 041107.	3.3	43
9	SiC/SiO ₂ interface-state generation by electron injection. <i>Journal of Applied Physics</i> , 1999, 85, 8292-8298.	2.5	41
10	Traps at the SiC/SiO ₂ -Interface. <i>Materials Research Society Symposia Proceedings</i> , 2000, 640, 1.	0.1	41
11	Analysis of thermal images from diode lasers: Temperature profiling and reliability screening. <i>Applied Physics Letters</i> , 2005, 86, 203503.	3.3	34
12	Label-free, high-throughput detection of <i>P. falciparum</i> infection in sphered erythrocytes with digital holographic microscopy. <i>Lab on A Chip</i> , 2018, 18, 1704-1712.	6.0	27
13	Charge trapping and interface state generation in 6H-SiC MOS structures. <i>Microelectronic Engineering</i> , 1995, 28, 197-200.	2.4	20
14	Degradation of 6H-SiC MOS capacitors operated at high temperatures. <i>Microelectronic Engineering</i> , 1999, 48, 257-260.	2.4	19
15	Performance of chip-size wavelength detectors. <i>Optics Express</i> , 2007, 15, 9701.	3.4	18
16	Hybrid integration of scalable mechanical and magnetophoretic focusing for magnetic flow cytometry. <i>Biosensors and Bioelectronics</i> , 2018, 109, 98-108.	10.1	17
17	Guiding light in fluids. <i>Applied Physics Letters</i> , 2006, 88, 151109.	3.3	14
18	The equilibrium velocity of spherical particles in rectangular microfluidic channels for size measurement. <i>Lab on A Chip</i> , 2014, 14, 2319-2326.	6.0	11

#	ARTICLE	IF	CITATIONS
19	Characterization of a novel microfluidic platform for the isolation of rare single cells to enable CTC analysis from head and neck squamous cell carcinoma patients. <i>Engineering in Life Sciences</i> , 2022, 22, 391-406.	3.6	8
20	Oxidation of 6H silicon carbide in carbon containing atmosphere. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1999, 61-62, 485-489.	3.5	6
21	Comment on "Reduction of interface-state density in 4H-SiC n-type metal-oxide-semiconductor structures using high-temperature hydrogen annealing" [Appl. Phys. Lett. 76, 1585 (2000)]. <i>Applied Physics Letters</i> , 2001, 78, 4043-4044.	3.3	6
22	Inspection of laser-seam welds in automobile manufacturing. , 2005, , .		3
23	Equilibrium transport velocity of deformable cells and rigid spheres in micro-channels under laminar flow conditions. <i>Microfluidics and Nanofluidics</i> , 2020, 24, 1.	2.2	3
24	Materials and structural design of a mid-infrared light-emitting device. , 2004, , .		2
25	CHIP-SIZE WAVELENGTH DETECTORS. <i>International Journal of High Speed Electronics and Systems</i> , 2007, 17, 661-670.	0.7	1
26	CLASS IDENTIFICATION OF BIO-MOLECULES BASED ON MULTI-COLOR NATIVE FLUORESCENCE SPECTROSCOPY. <i>International Journal of High Speed Electronics and Systems</i> , 2007, 17, 671-680.	0.7	1
27	COMPACT OPTICAL CHARACTERIZATION PLATFORM FOR DETECTION OF BIO-MOLECULES IN FLUIDIC AND AEROSOL SAMPLES. <i>International Journal of High Speed Electronics and Systems</i> , 2008, 18, 99-108.	0.7	1
28	Cell Size Discrimination Based on the Measurement of the Equilibrium Velocity in Rectangular Microchannels. <i>Micromachines</i> , 2015, 6, 634-647.	2.9	1
29	Enhanced light-target interaction using a novel anti-resonant waveguide concept. , 2006, , .		0
30	Compact and fast interrogation unit for fiber Bragg grating sensors. <i>Proceedings of SPIE</i> , 2007, , .	0.8	0
31	Micro-fluidic-based optical detection platform for characterizing fluorescing objects with integrated wavelength detection. , 2008, , .		0
32	Microfluidic-based detection platform for on-the-flow analyte characterization. <i>Proceedings of SPIE</i> , 2010, , .	0.8	0
33	Zählen, Sortieren und Charakterisieren. <i>Physik in Unserer Zeit</i> , 2016, 47, 91-95.	0.0	0
34	CLASS IDENTIFICATION OF BIO-MOLECULES BASED ON MULTI-COLOR NATIVE FLUORESCENCE SPECTROSCOPY. <i>Selected Topics in Electronics and Systems</i> , 2008, , 43-52.	0.2	0
35	CHIP-SIZE WAVELENGTH DETECTORS. <i>Selected Topics in Electronics and Systems</i> , 2008, , 33-42.	0.2	0
36	COMPACT OPTICAL CHARACTERIZATION PLATFORM FOR DETECTION OF BIO-MOLECULES IN FLUIDIC AND AEROSOL SAMPLES. <i>Selected Topics in Electronics and Systems</i> , 2008, , 357-366.	0.2	0