Kwang W Oh

List of Publications by Year
in descending order

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47	3,449	218677	243625
papers	citations	26 h-index	44 g-index

48	48	48	4087
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An Integrated Centrifugal Degassed PDMS-Based Microfluidic Device for Serial Dilution. Micromachines, 2021, 12, 482.	2.9	6
2	Passive micropumping in microfluidics for point-of-care testing. Biomicrofluidics, 2020, 14, 031503.	2.4	39
3	Microfluidic Devices for Biomedical Applications: Biomedical Microfluidic Devices 2019. Micromachines, 2020, 11, 370.	2.9	14
4	A Compact, Syringe-Assisted, Vacuum-Driven Micropumping Device. Micromachines, 2019, 10, 543.	2.9	8
5	Hermetic encapsulation of negative-pressure-driven PDMS microfluidic devices using paraffin wax and glass. Microsystem Technologies, 2018, 24, 2035-2043.	2.0	7
6	A robust, portable and backflow-free micromixing device based on both capillary- and vacuum-driven flows. Lab on A Chip, 2018, 18, 276-284.	6.0	26
7	Optimizing the light delivery of linear-array-based photoacoustic systems by double acoustic reflectors. Scientific Reports, 2018, 8, 13004.	3.3	30
8	Single-Layered Microfluidic Network-Based Combinatorial Dilution for Standard Simplex Lattice Design. Micromachines, 2018, 9, 489.	2.9	0
9	A Robust and Secure Palm Vessel Biometric Sensing System Based on Photoacoustics. IEEE Sensors Journal, 2018, 18, 5993-6000.	4.7	28
10	Manipulation of micro-objects using acoustically oscillating bubbles based on the gas permeability of PDMS. Biomicrofluidics, 2018, 12, 034111.	2.4	4
11	10.1063/1.5028419.1. , 2018, , .		0
12	Introduction of a Chemical-Free Metal PDMS Thermal Bonding for Fabrication of Flexible Electrode by Metal Transfer onto PDMS. Micromachines, 2017, 8, 280.	2.9	18
13	Multidisciplinary Role of Microfluidics for Biomedical and Diagnostic Applications: Biomedical Microfluidic Devices. Micromachines, 2017, 8, 343.	2.9	11
14	A Simple Method for Fabrication of Microstructures Using a PDMS Stamp. Micromachines, 2016, 7, 173.	2.9	17
15	A high flow rate thermal bubble-driven micropump with induction heating. Microfluidics and Nanofluidics, 2016, 20, 1.	2.2	25
16	Phaseguide-assisted blood separation microfluidic device for point-of-care applications. Biomicrofluidics, 2015, 9, 014106.	2.4	21
17	Maximizing derivable information from cytologic specimens for pathologic and molecular diagnostics. Journal of the American Society of Cytopathology, 2015, 4, 141-147.	0.5	2
18	Vacuum-driven power-free microfluidics utilizing the gas solubility or permeability of polydimethylsiloxane (PDMS). Lab on A Chip, 2015, 15, 3962-3979.	6.0	117

#	ARTICLE	IF	CITATIONS
19	Various On-Chip Sensors with Microfluidics for Biological Applications. Sensors, 2014, 14, 17008-17036.	3.8	52
20	Syringe-assisted point-of-care micropumping utilizing the gas permeability of polydimethylsiloxane. Microfluidics and Nanofluidics, 2014, 17, 745-750.	2.2	23
21	Droplet-based microfluidic washing module for magnetic particle-based assays. Biomicrofluidics, 2014, 8, 044113.	2.4	31
22	Feasibility of a MEMS Sensor for Gas Detection in HV Oil-Insulated Transformer. IEEE Transactions on Industry Applications, 2013, 49, 316-321.	4.9	5
23	Gravity-oriented microfluidic device for uniform and massive cell spheroid formation. Biomicrofluidics, 2012, 6, 14114-141147.	2.4	42
24	Design of pressure-driven microfluidic networks using electric circuit analogy. Lab on A Chip, 2012, 12, 515-545.	6.0	516
25	Continuous-flow in-droplet magnetic particle separation in a droplet-based microfluidic platform. Microfluidics and Nanofluidics, 2012, 13, 613-623.	2.2	34
26	Fusion and sorting of two parallel trains of droplets using a railroad-like channel network and guiding tracks. Lab on A Chip, 2012, 12, 3936.	6.0	36
27	Droplet-based microfluidic device for multiple-droplet clustering. Lab on A Chip, 2012, 12, 725-730.	6.0	31
28	Simultaneous detection of duplex DNA oligonucleotides using a SERS-based micro-network gradient chip. Lab on A Chip, 2012, 12, 5160.	6.0	31
29	SERS-based immunoassay using a gold array-embedded gradient microfluidic chip. Lab on A Chip, 2012, 12, 3720.	6.0	112
30	Parallel synchronization of two trains of droplets using a railroad-like channel network. Lab on A Chip, 2011, 11, 3956.	6.0	43
31	A new fabrication process for uniform SU-8 thick photoresist structures by simultaneously removing edge bead and air bubbles. Journal of Micromechanics and Microengineering, 2011, 21, 125006.	2.6	39
32	Guiding, distribution, and storage of trains of shape-dependent droplets. Lab on A Chip, 2011, 11, 3915.	6.0	20
33	Microfluidic concentration-on-demand combinatorial dilutions. Microfluidics and Nanofluidics, 2011, 11, 75-86.	2.2	22
34	Microfluidic network-based combinatorial dilution device for high throughput screening and optimization. Microfluidics and Nanofluidics, 2010, 8, 677-685.	2.2	34
35	2-layer based microfluidic concentration generator by hybrid serial and volumetric dilutions. Biomedical Microdevices, 2010, 12, 297-309.	2.8	20
36	Fabrication of multiple height microstructures using UV lithography on timed-development-and-thermal-reflowed photoresist. , 2010, , .		2

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37	Generalized serial dilution module for monotonic and arbitrary microfluidic gradient generators. Lab on A Chip, 2009, 9, 709-717.	6.0	136
38	A review of microvalves. Journal of Micromechanics and Microengineering, 2006, 16, R13-R39.	2.6	877
39	Clinical evaluation of micro-scale chip-based PCR system for rapid detection of hepatitis B virus. Biosensors and Bioelectronics, 2006, 21, 2161-2169.	10.1	74
40	A microfluidic gel valve device using reversible solâ€“gel transition of methyl cellulose for biomedical application. Microsystem Technologies, 2006, 12, 238-246.	2.0	6
41	Miniaturization of pinch-type valves and pumps for practical micro total analysis system integration. Journal of Micromechanics and Microengineering, 2005, 15, 2449-2455.	2.6	35
42	World-to-chip microfluidic interface with built-in valves for multichamber chip-based PCR assays. Lab on A Chip, 2005, 5, 845.	6.0	53
43	DNA hybridization electrochemical sensor using conducting polymer. Biosensors and Bioelectronics, 2003, 18, 1241-1247.	10.1	144
44	Precise temperature control and rapid thermal cycling in a micromachined DNA polymerase chain reaction chip. Journal of Micromechanics and Microengineering, 2002, 12, 813-823.	2.6	127
45	A low-temperature bonding technique using spin-on fluorocarbon polymers to assemble microsystems. Journal of Micromechanics and Microengineering, 2002, 12, 187-191.	2.6	87
46	An integrated microfluidic biochemical detection system for protein analysis with magnetic bead-based sampling capabilities. Lab on A Chip, 2002, 2, 27.	6.0	349
47	Title is missing!. Biomedical Microdevices, 2001, 3, 191-200.	2.8	95