

Joo H Kang

List of Publications by Year in descending order

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38
papers

1,437
citations

430874

18
h-index

361022

35
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46
all docs

46
docs citations

46
times ranked

2546
citing authors

#	ARTICLE	IF	CITATIONS
1	A combined micromagnetic-microfluidic device for rapid capture and culture of rare circulating tumor cells. <i>Lab on A Chip</i> , 2012, 12, 2175.	6.0	261
2	An extracorporeal blood-cleansing device for sepsis therapy. <i>Nature Medicine</i> , 2014, 20, 1211-1216.	30.7	254
3	Inhibition of Mammary Tumor Growth Using Lysyl Oxidase-Targeting Nanoparticles to Modify Extracellular Matrix. <i>Nano Letters</i> , 2012, 12, 3213-3217.	9.1	97
4	Analysis of pressure-driven air bubble elimination in a microfluidic device. <i>Lab on A Chip</i> , 2008, 8, 176-178.	6.0	81
5	Magnetophoretic Immunoassay of Allergen-Specific IgE in an Enhanced Magnetic Field Gradient. <i>Analytical Chemistry</i> , 2007, 79, 2214-2220.	6.5	75
6	Improved treatment of systemic blood infections using antibiotics with extracorporeal opsonin hemoadsorption. <i>Biomaterials</i> , 2015, 67, 382-392.	11.4	65
7	Stationary nanoliter droplet array with a substrate of choice for single adherent/nonadherent cell incubation and analysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 11293-11298.	7.1	64
8	Microfluidic biomechanical device for compressive cell stimulation and lysis. <i>Sensors and Actuators B: Chemical</i> , 2007, 128, 108-116.	7.8	60
9	Robust chemical bonding of PMMA microfluidic devices to porous PETE membranes for reliable cytotoxicity testing of drugs. <i>Lab on A Chip</i> , 2019, 19, 3706-3713.	6.0	49
10	Magnetophoretic Continuous Purification of Single-Walled Carbon Nanotubes from Catalytic Impurities in a Microfluidic Device. <i>Small</i> , 2007, 3, 1784-1791.	10.0	48
11	A Broad-Spectrum Infection Diagnostic that Detects Pathogen-Associated Molecular Patterns (PAMPs) in Whole Blood. <i>EBioMedicine</i> , 2016, 9, 217-227.	6.1	40
12	Optimization of Pathogen Capture in Flowing Fluids with Magnetic Nanoparticles. <i>Small</i> , 2015, 11, 5657-5666.	10.0	38
13	Isomagnetophoresis to Discriminate Subtle Difference in Magnetic Susceptibility. <i>Journal of the American Chemical Society</i> , 2008, 130, 396-397.	13.7	37
14	Advection Flows-Enhanced Magnetic Separation for High-Throughput Bacteria Separation from Undiluted Whole Blood. <i>Small</i> , 2018, 14, e1801731.	10.0	32
15	Magnetic activated cell sorting (MACS) pipette tip for immunomagnetic bacteria separation. <i>Sensors and Actuators B: Chemical</i> , 2018, 272, 324-330.	7.8	29
16	Fabrication of a poly(dimethylsiloxane) membrane with well-defined through-holes for three-dimensional microfluidic networks. <i>Journal of Micromechanics and Microengineering</i> , 2009, 19, 045027.	2.6	27
17	Investigation on vascular cytotoxicity and extravascular transport of cationic polymer nanoparticles using perfusable 3D microvessel model. <i>Acta Biomaterialia</i> , 2018, 76, 154-163.	8.3	26
18	Development of a microplate reader compatible microfluidic device for enzyme assay. <i>Sensors and Actuators B: Chemical</i> , 2005, 107, 980-985.	7.8	20

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19	Application of a Halbach magnetic array for long-range cell and particle separations in biological samples. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	16
20	A Reconfigurable Microfluidics Platform for Microparticle Separation and Fluid Mixing. <i>Micromachines</i> , 2016, 7, 139.	2.9	13
21	Moldless electroplating for cylindrical microchannel fabrication. <i>Electrochemistry Communications</i> , 2005, 7, 913-917.	4.7	12
22	Phase synchronization of fluid-fluid interfaces as hydrodynamically coupled oscillators. <i>Nature Communications</i> , 2020, 11, 5221.	12.8	10
23	An Engineered Human Fc α 1 Mannose α Binding Lectin Captures Circulating Tumor Cells. <i>Advanced Biology</i> , 2017, 1, 1700094.	3.0	9
24	Multiscale Biofluidic and Nanobiotechnology Approaches for Treating Sepsis in Extracorporeal Circuits. <i>Biochip Journal</i> , 2020, 14, 63-71.	4.9	9
25	Condensed ECM-based nanofilms on highly permeable PET membranes for robust cell-to-cell communications with improved optical clarity. <i>Biofabrication</i> , 2021, 13, 045020.	7.1	9
26	Quantitative Fluorescence In Situ Hybridization (FISH) of Magnetically Confined Bacteria Enables Early Detection of Human Bacteremia. <i>Small Methods</i> , 2022, 6, e2101239.	8.6	9
27	Measurement of the magnetic susceptibility of subtle paramagnetic solutions using the diamagnetic repulsion of polymer microparticles. <i>Lab on A Chip</i> , 2019, 19, 2356-2361.	6.0	8
28	Enhanced Diamagnetic Repulsion of Blood Cells Enables Versatile Plasma Separation for Biomarker Analysis in Blood. <i>Small</i> , 2021, 17, 2100797.	10.0	7
29	An inflammatory vascular endothelium-mimicking microfluidic device to enable leukocyte rolling and adhesion for rapid infection diagnosis. <i>Biosensors and Bioelectronics</i> , 2020, 168, 112558.	10.1	6
30	Analysis of Porcine Model of Fecal-Induced Peritonitis Reveals the Tropism of Blood Microbiome. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 676650.	3.9	6
31	Tunable SIM: observation at varying spatiotemporal resolutions across the FOV. <i>Optica</i> , 2020, 7, 973.	9.3	5
32	Microfluidic Pycnometer for in Situ Analysis of Fluids in Microchannels. <i>Analytical Chemistry</i> , 2009, 81, 2569-2574.	6.5	3
33	Vertically sheathing laminar flow-based immunoassay using simultaneous diffusion-driven immune reactions. <i>RSC Advances</i> , 2019, 9, 23791-23796.	3.6	3
34	A microfluidic magnetophoresis chip for continuous single-walled carbon nanotube purification from magnetic force-induced superparamagnetic metal catalyst. , 2007, , .		1
35	Changes in Biomarkers and Hemodynamics According to Antibiotic Susceptibility in a Model of Bacteremia. <i>Microbiology Spectrum</i> , 0, , .	3.0	1
36	Compressive Cell Stimulation using PDMS Membrane Deflection in a Microfluidic Device. , 2007, , .		0

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37	Blood Plasma Separation: Enhanced Diamagnetic Repulsion of Blood Cells Enables Versatile Plasma Separation for Biomarker Analysis in Blood (Small 23/2021). Small, 2021, 17, 2170116.	10.0	0
38	Microfluidic immunoassay using superparamagnetic nanoparticles in an enhanced magnetic field gradient. Journal of Sensor Science and Technology, 2006, 15, 158-163.	0.2	0