

Ki Wan Bong

List of Publications by Year in descending order

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45
papers

1,276
citations

394286

19
h-index

360920

35
g-index

46
all docs

46
docs citations

46
times ranked

1727
citing authors

#	ARTICLE	IF	CITATIONS
1	Inertio-elastic focusing of bioparticles in microchannels at high throughput. <i>Nature Communications</i> , 2014, 5, 4120.	5.8	173
2	Synthesis of Nonspherical Superparamagnetic Particles: <i>In Situ</i> Coprecipitation of Magnetic Nanoparticles in Microgels Prepared by Stop-Flow Lithography. <i>Journal of the American Chemical Society</i> , 2012, 134, 7337-7343.	6.6	115
3	Magnetic Barcoded Hydrogel Microparticles for Multiplexed Detection. <i>Langmuir</i> , 2010, 26, 8008-8014.	1.6	80
4	Lock release lithography for 3D and composite microparticles. <i>Lab on A Chip</i> , 2009, 9, 863.	3.1	77
5	Hydrodynamic Focusing Lithography. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 87-90.	7.2	73
6	Compressed-air flow control system. <i>Lab on A Chip</i> , 2011, 11, 743-747.	3.1	70
7	Porous microwells for geometry-selective, large-scale microparticle arrays. <i>Nature Materials</i> , 2017, 16, 139-146.	13.3	56
8	Hydrogel-based hybridization chain reaction (HCR) for detection of urinary exosomal miRNAs as a diagnostic tool of prostate cancer. <i>Biosensors and Bioelectronics</i> , 2021, 192, 113504.	5.3	50
9	Non-polydimethylsiloxane devices for oxygen-free flow lithography. <i>Nature Communications</i> , 2012, 3, 805.	5.8	49
10	Nitrogen-doped graphene-wrapped iron nanofragments for high-performance oxygen reduction electrocatalysts. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	0.8	36
11	Microfluidic Synthesis of pH-Sensitive Multicompartmental Microparticles for Multimodulated Drug Release. <i>Small</i> , 2016, 12, 3463-3470.	5.2	35
12	Multiplexed immunoassay using post-synthesis functionalized hydrogel microparticles. <i>Lab on A Chip</i> , 2019, 19, 111-119.	3.1	32
13	Tissue Beads: Tissue-Specific Extracellular Matrix Microbeads to Potentiate Reprogrammed Cell-Based Therapy. <i>Advanced Functional Materials</i> , 2019, 29, 1807803.	7.8	31
14	Microfluidic Fabrication of Encoded Hydrogel Microparticles for Application in Multiplex Immunoassay. <i>Biochip Journal</i> , 2019, 13, 64-81.	2.5	30
15	Synthesis of Cell-Adhesive Anisotropic Multifunctional Particles by Stop Flow Lithography and Streptavidin-Biotin Interactions. <i>Langmuir</i> , 2015, 31, 13165-13171.	1.6	29
16	Vertically encoded tetragonal hydrogel microparticles for multiplexed detection of miRNAs associated with Alzheimer's disease. <i>Analyst</i> , 2016, 141, 4578-4586.	1.7	28
17	Stop flow lithography in perfluoropolyether (PFPE) microfluidic channels. <i>Lab on A Chip</i> , 2014, 14, 4680-4687.	3.1	26
18	Using Stop-Flow Lithography To Produce Opaque Microparticles: Synthesis and Modeling. <i>Langmuir</i> , 2011, 27, 13813-13819.	1.6	23

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19	Post-synthesis functionalized hydrogel microparticles for high performance microRNA detection. <i>Analytica Chimica Acta</i> , 2019, 1076, 110-117.	2.6	20
20	Degassed micromolding lithography for rapid fabrication of anisotropic hydrogel microparticles with high-resolution and high uniformity. <i>Lab on A Chip</i> , 2020, 20, 74-83.	3.1	20
21	Fabrication of dual stimuli-responsive multicompartamental drug carriers for tumor-selective drug release. <i>Lab on A Chip</i> , 2018, 18, 754-764.	3.1	19
22	Gold nanorods-encapsulated thermosensitive drug carriers for NIR light-responsive anticancer therapy. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 98, 211-216.	2.9	19
23	Precipitation-based colorimetric multiplex immunoassay in hydrogel particles. <i>Lab on A Chip</i> , 2020, 20, 2841-2850.	3.1	18
24	Implantable Photothermal Agents based on Gold Nanorods-Encapsulated Microcube. <i>Scientific Reports</i> , 2018, 8, 13683.	1.6	17
25	Discontinuous Dewetting in a Degassed Mold for Fabrication of Homogeneous Polymeric Microparticles. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 53318-53327.	4.0	14
26	Microfluidic fabrication of biocompatible poly(N-vinylcaprolactam)-based microcarriers for modulated thermo-responsive drug release. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 172, 380-386.	2.5	13
27	Microfluidic fabrication of fatty alcohol-based microparticles for NIR light-triggered drug release. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 80, 778-783.	2.9	13
28	Elimination of Unreacted Acrylate Double Bonds in the Polymer Networks of Microparticles Synthesized via Flow Lithography. <i>Langmuir</i> , 2020, 36, 2271-2277.	1.6	13
29	Aqueous-phase synthesis of single crystal ZnO nanobolts. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 36, 59-65.	2.9	12
30	Fabrication of NOA microfluidic devices based on sequential replica molding. <i>Korean Journal of Chemical Engineering</i> , 2017, 34, 1495-1499.	1.2	10
31	Flow lithography in ultraviolet-curable polydimethylsiloxane microfluidic chips. <i>Biomicrofluidics</i> , 2017, 11, 024120.	1.2	9
32	Particle dynamics and relaxation in bimodal suspensions during drying using multispeckle diffusing wave spectroscopy. <i>AIChE Journal</i> , 2017, 63, 1114-1121.	1.8	9
33	Linker-free antibody conjugation for sensitive hydrogel microparticle-based multiplex immunoassay. <i>Analyst</i> , The, 2019, 144, 6712-6720.	1.7	9
34	Effects of solvents on rheological and crosslinking properties of photo-polymerized poly(ethylene) Tj ETQq0 0 0 rgBT, /Overlock 10 Tf 50	1.2	8
35	Photopolymerization-Based Synthesis of Uniform Magnetic Hydrogels and Colorimetric Glucose Detection. <i>Materials</i> , 2020, 13, 4401.	1.3	7
36	Affinity-Enhanced CTC-Capturing Hydrogel Microparticles Fabricated by Degassed Mold Lithography. <i>Journal of Clinical Medicine</i> , 2020, 9, 301.	1.0	6

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37	Rapid colorimetric analysis of multiple microRNAs using encoded hydrogel microparticles. <i>Analyst, The</i> , 2021, 146, 5508-5516.	1.7	6
38	Phosphorylcholine-based encoded hydrogel microparticles with enhanced fouling resistance for multiplex immunoassays. <i>Analyst, The</i> , 2020, 145, 5482-5490.	1.7	5
39	Micropore device for identification of 4-bit hydrogel barcode. <i>Sensors and Actuators B: Chemical</i> , 2020, 307, 127622.	4.0	4
40	Direct Conjugation of Streptavidin to Encoded Hydrogel Microparticles for Multiplex Biomolecule Detection with Rapid Probe-Set Modification. <i>Polymers</i> , 2020, 12, 546.	2.0	4
41	Highly Magnetized Encoded Hydrogel Microparticles with Enhanced Rinsing Capabilities for Efficient microRNA Detection. <i>Biomedicines</i> , 2021, 9, 848.	1.4	4
42	Direct functionalization of cell adhesion promoters to hydrogel microparticles synthesized by stop-flow lithography. <i>Journal of Polymer Science</i> , 2022, 60, 1767-1777.	2.0	2
43	Encoded hydrogel microparticles with universal mismatch-incorporated DNA probes for highly specific multiplex detection of SNPs. <i>Talanta</i> , 2022, 245, 123480.	2.9	2
44	Patterning nano-domains with orthogonal functionalities: Solventless synthesis of self-sorting surfaces. , 2009, , .		0
45	Depletion of λ -DNA near moving contact line. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2016, 236, 50-62.	1.0	0