

Chang-Soo Lee

List of Publications by Year in descending order

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199
papers

5,871
citations

70961

41
h-index

98622

67
g-index

206
all docs

206
docs citations

206
times ranked

8713
citing authors

#	ARTICLE	IF	CITATIONS
1	Ion-Sensitive Field-Effect Transistor for Biological Sensing. <i>Sensors</i> , 2009, 9, 7111-7131.	2.1	366
2	Hierarchical Hollow Spheres of Fe ₂ O ₃ @Polyaniline for Lithium Ion Battery Anodes. <i>Advanced Materials</i> , 2013, 25, 6250-6255.	11.1	311
3	Apple Flavonoid Phloretin Inhibits Escherichia coli O157:H7 Biofilm Formation and Ameliorates Colon Inflammation in Rats. <i>Infection and Immunity</i> , 2011, 79, 4819-4827.	1.0	180
4	Generation of monodisperse alginate microbeads and in situ encapsulation of cell in microfluidic device. <i>Biomedical Microdevices</i> , 2007, 9, 855-862.	1.4	172
5	One Step Formation of Controllable Complex Emulsions: From Functional Particles to Simultaneous Encapsulation of Hydrophilic and Hydrophobic Agents into Desired Position. <i>Advanced Materials</i> , 2013, 25, 2536-2541.	11.1	161
6	Generation of Monodisperse Inorganic-Organic Janus Microspheres in a Microfluidic Device. <i>Advanced Functional Materials</i> , 2009, 19, 1656-1662.	7.8	124
7	Comparison of the surface characteristics of polypropylene films treated by Ar and mixed gas (Ar/O ₂) atmospheric pressure plasma. <i>Journal of Colloid and Interface Science</i> , 2006, 295, 409-416.	5.0	115
8	Antibacterial electrospun chitosan/poly(vinyl alcohol) nanofibers containing silver nitrate and titanium dioxide. <i>Journal of Applied Polymer Science</i> , 2009, 111, 2892-2899.	1.3	104
9	In situ monitoring of antibiotic susceptibility of bacterial biofilms in a microfluidic device. <i>Lab on A Chip</i> , 2010, 10, 3296.	3.1	94
10	Solvent-Resistant PDMS Microfluidic Devices with Hybrid Inorganic/Organic Polymer Coatings. <i>Advanced Functional Materials</i> , 2009, 19, 3796-3803.	7.8	91
11	Microfluidic fabrication of complex-shaped microfibers by liquid template-aided multiphase microflow. <i>Lab on A Chip</i> , 2011, 11, 1477.	3.1	91
12	Low concentrations of honey reduce biofilm formation, quorum sensing, and virulence in <i>Escherichia coli</i> O157:H7. <i>Biofouling</i> , 2011, 27, 1095-1104.	0.8	83
13	Protein patterning on silicon-based surface using background hydrophobic thin film. <i>Biosensors and Bioelectronics</i> , 2003, 18, 437-444.	5.3	82
14	Novel one-pot route to monodisperse thermosensitive hollow microcapsules in a microfluidic system. <i>Lab on A Chip</i> , 2008, 8, 1544.	3.1	80
15	High sensitivity detection of 16s rRNA using peptide nucleic acid probes and a surface plasmon resonance biosensor. <i>Analytica Chimica Acta</i> , 2008, 630, 168-173.	2.6	79
16	Microfluidic synthesis of a cell adhesive Janus polyurethane microfiber. <i>Lab on A Chip</i> , 2009, 9, 2596.	3.1	75
17	Effect of shear stress on the formation of bacterial biofilm in a microfluidic channel. <i>Biochip Journal</i> , 2011, 5, 236-241.	2.5	74
18	Synthesis of highly monodisperse polystyrene microspheres via dispersion polymerization using an amphoteric initiator. <i>Journal of Colloid and Interface Science</i> , 2006, 298, 663-671.	5.0	71

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19	Spore-displayed streptavidin: A live diagnostic tool in biotechnology. <i>Biochemical and Biophysical Research Communications</i> , 2005, 331, 210-214.	1.0	70
20	Toward instrument-free digital measurements: a three-dimensional microfluidic device fabricated in a single sheet of paper by double-sided printing and lamination. <i>Lab on A Chip</i> , 2015, 15, 1188-1194.	3.1	69
21	Nanoparticles up-regulate tumor necrosis factor- α and CXCL8 via reactive oxygen species and mitogen-activated protein kinase activation. <i>Toxicology and Applied Pharmacology</i> , 2009, 238, 160-169.	1.3	66
22	A Facile Synthesis of Fabrication Strategy for Integration of Catalytically Active Viral-Palladium Nanostructures into Polymeric Hydrogel Microparticles via Replica Molding. <i>ACS Nano</i> , 2013, 7, 5032-5044.	7.3	65
23	A highly selective dual-channel Cu ²⁺ and Al ³⁺ chemodosimeter in aqueous systems: Sensing in living cells and microfluidic flows. <i>Sensors and Actuators B: Chemical</i> , 2015, 210, 173-182.	4.0	65
24	Patterning of proteins and cells on functionalized surfaces prepared by polyelectrolyte multilayers and micromolding in capillaries. <i>Biosensors and Bioelectronics</i> , 2007, 22, 3188-3195.	5.3	61
25	Palladium Nanocatalysts Immobilized on Functionalized Resin for the Direct Synthesis of Hydrogen Peroxide from Hydrogen and Oxygen. <i>ACS Catalysis</i> , 2012, 2, 1042-1048.	5.5	61
26	In situ microfluidic synthesis of monodisperse PEG microspheres. <i>Macromolecular Research</i> , 2009, 17, 163-167.	1.0	59
27	Fabrication of Uniform DNA-Conjugated Hydrogel Microparticles via Replica Molding for Facile Nucleic Acid Hybridization Assays. <i>Analytical Chemistry</i> , 2010, 82, 5851-5858.	3.2	59
28	Geometrically and chemically anisotropic particles at an oil-water interface. <i>Soft Matter</i> , 2013, 9, 3383.	1.2	59
29	A rhodamine scaffold immobilized onto mesoporous silica as a fluorescent probe for the detection of Fe (III) and applications in bio-imaging and microfluidic chips. <i>Sensors and Actuators B: Chemical</i> , 2016, 224, 404-412.	4.0	59
30	Surface Tension-Induced Synthesis of Complex Particles Using Confined Polymeric Fluids. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7748-7752.	7.2	57
31	Modular microfluidics enables kinetic insight from time-resolved cryo-EM. <i>Nature Communications</i> , 2020, 11, 3465.	5.8	56
32	High-throughput detection method of quorum-sensing molecules by colorimetry and its applications. <i>Analytical Biochemistry</i> , 2006, 356, 297-299.	1.1	55
33	Agarose microwell based neuronal micro-circuit arrays on microelectrode arrays for high throughput drug testing. <i>Lab on A Chip</i> , 2009, 9, 3236.	3.1	55
34	Development of a Selective, Sensitive, and Reversible Biosensor by the Genetic Incorporation of a Metal-Binding Site into Green Fluorescent Protein. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 6534-6537.	7.2	55
35	Microfluidic Design of Complex Emulsions. <i>ChemPhysChem</i> , 2014, 15, 21-29.	1.0	53
36	A programmable microfluidic static droplet array for droplet generation, transportation, fusion, storage, and retrieval. <i>Lab on A Chip</i> , 2015, 15, 3677-3686.	3.1	53

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37	Microfluidic static droplet array for analyzing microbial communication on a population gradient. Lab on A Chip, 2015, 15, 889-899.	3.1	53
38	Process design for lithium recovery using bipolar membrane electro dialysis system. Separation and Purification Technology, 2016, 166, 34-40.	3.9	52
39	On-chip analysis, indexing and screening for chemical producing bacteria in a microfluidic static droplet array. Lab on A Chip, 2016, 16, 1909-1916.	3.1	51
40	Degradation of 2,4-dichlorophenol in aqueous solution by sono-Fenton method. Korean Journal of Chemical Engineering, 2008, 25, 112-117.	1.2	50
41	Production of egg yolk lysolecithin with immobilized phospholipase A2. Enzyme and Microbial Technology, 2001, 29, 587-592.	1.6	43
42	Double Hydrophilic Janus Cylinders at an Air-Water Interface. Langmuir, 2013, 29, 1841-1849.	1.6	42
43	Microfluidic preparation of monodisperse polymeric microspheres coated with silica nanoparticles. Scientific Reports, 2018, 8, 8525.	1.6	42
44	Flow control in paper-based microfluidic device for automatic multistep assays: A focused minireview. Korean Journal of Chemical Engineering, 2016, 33, 2761-2770.	1.2	41
45	Structural analysis of lipid A from Escherichia coli O157:H7 using thin-layer chromatography and ion-trap mass spectrometry. Journal of Mass Spectrometry, 2004, 39, 514-525.	0.7	39
46	Screening of LPS-specific peptides from a phage display library using epoxy beads. Biochemical and Biophysical Research Communications, 2005, 329, 312-317.	1.0	39
47	Reversible self-bending soft hydrogel microstructures with mechanically optimized designs. Chemical Engineering Journal, 2017, 321, 384-393.	6.6	39
48	Aqueous adsorption of bisphenol A over a porphyrinic porous organic polymer. Chemosphere, 2021, 265, 129161.	4.2	39
49	Micro protein patterning using a lift-off process with fluorocarbon thin film. Sensors and Actuators B: Chemical, 2004, 99, 623-632.	4.0	38
50	A highly addressable static droplet array enabling digital control of a single droplet at pico-volume resolution. Lab on A Chip, 2016, 16, 1698-1707.	3.1	38
51	Quantitative analysis of single bacterial chemotaxis using a linear concentration gradient microchannel. Biomedical Microdevices, 2009, 11, 1135-1143.	1.4	37
52	Facile fabrication of uniform golf-ball-shaped microparticles from various polymers. Soft Matter, 2011, 7, 10874.	1.2	37
53	Thermo-Responsive Microcapsules with Tunable Molecular Permeability for Controlled Encapsulation and Release. Advanced Functional Materials, 2021, 31, 2100782.	7.8	37
54	Synthesis and utilization of E. coli-encapsulated PEG-based microdroplet using a microfluidic chip for biological application. Biotechnology and Bioengineering, 2010, 107, 747-751.	1.7	36

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55	Enhanced Cell Adhesion to the Dimpled Surfaces of Golf-Ball-Shaped Microparticles. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 16493-16497.	4.0	33
56	Microfluidic preparation of a highly active and stable catalyst by high performance of encapsulation of polyvinylpyrrolidone (PVP)-Pt nanoparticles in microcapsules. <i>Journal of Colloid and Interface Science</i> , 2016, 464, 246-253.	5.0	33
57	Quantitatively controlled nanoliter liquid manipulation using hydrophobic valving and control of surface wettability. <i>Journal of Micromechanics and Microengineering</i> , 2003, 13, 89-97.	1.5	32
58	Microfluidic monitoring of <i>Pseudomonas aeruginosa</i> chemotaxis under the continuous chemical gradient. <i>Biosensors and Bioelectronics</i> , 2010, 26, 351-356.	5.3	31
59	A Rapid One-Step Fabrication of Patternable Superhydrophobic Surfaces Driven by Marangoni Instability. <i>Langmuir</i> , 2014, 30, 2828-2834.	1.6	31
60	Improvement of protein stability in protein microarrays. <i>Biotechnology Letters</i> , 2002, 24, 839-844.	1.1	30
61	Improvement in the Reproducibility of a Paper-based Analytical Device (PAD) Using Stable Covalent Binding between Proteins and Cellulose Paper. <i>Biotechnology and Bioprocess Engineering</i> , 2018, 23, 686-692.	1.4	30
62	High-Throughput Identification of Substrate Specificity for Protein Kinase by Using an Improved One-Bead-One-Compound Library Approach. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 5408-5411.	7.2	29
63	Pump-less static microfluidic device for analysis of chemotaxis of <i>Pseudomonas aeruginosa</i> using wetting and capillary action. <i>Biosensors and Bioelectronics</i> , 2013, 47, 278-284.	5.3	29
64	A new hybrid ion exchanger: Effect of system parameters on the adsorption of vanadium (V). <i>Journal of Hazardous Materials</i> , 2009, 166, 415-420.	6.5	28
65	Control of Reversible Self-Bending Behavior in Responsive Janus Microstrips. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 8782-8788.	4.0	28
66	Microfluidic synthesis of monodisperse pectin hydrogel microspheres based on in situ gelation and settling collection. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 201-209.	1.6	27
67	Gear-shaped micromixer for synthesis of silica particles utilizing inertio-elastic flow instability. <i>Lab on A Chip</i> , 2021, 21, 513-520.	3.1	27
68	Simultaneous profiling of N-glycans and proteins from human serum using a parallel-column system directly coupled to mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007, 850, 109-119.	1.2	26
69	Microfluidic chip for biochemical reaction and electrophoretic separation by quantitative volume control. <i>Sensors and Actuators B: Chemical</i> , 2005, 110, 164-173.	4.0	25
70	Synthesis of Monodispersed Microspheres from Laplace Pressure Induced Droplets in Micromolds. <i>Advanced Materials</i> , 2012, 24, 5078-5082.	11.1	25
71	Paper-Based Analytical Device for Quantitative Urinalysis. <i>International Neurourology Journal</i> , 2013, 17, 155.	0.5	25
72	Multicompartment Photonic Microcylinders toward Structural Color Inks. <i>Chemistry of Materials</i> , 2018, 30, 3789-3797.	3.2	25

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73	An ISFET biosensor for the monitoring of maltose-induced conformational changes in MBP. <i>FEBS Letters</i> , 2009, 583, 157-162.	1.3	24
74	Regioselective surface modification of pdms microfluidic device for the generation of monodisperse double emulsions. <i>Macromolecular Research</i> , 2012, 20, 422-428.	1.0	24
75	Controlled Fabrication of Multicompartmental Polymeric Microparticles by Sequential Micromolding via Surface-Tension-Induced Droplet Formation. <i>Langmuir</i> , 2015, 31, 1328-1335.	1.6	24
76	Beauty of Lotus is More than Skin Deep: Highly Buoyant Superhydrophobic Films. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 7009-7013.	4.0	23
77	Microfluidic Fabrication of Capsule Sensor Platform with Double-shell Structure. <i>Advanced Functional Materials</i> , 2019, 29, 1902670.	7.8	23
78	Effect of temperature on biofilm formation by Antarctic marine bacteria in a microfluidic device. <i>Analytical Biochemistry</i> , 2014, 446, 90-95.	1.1	22
79	Synthesis and characterization of thermosensitive gelatin hydrogel microspheres in a microfluidic system. <i>Macromolecular Research</i> , 2016, 24, 529-536.	1.0	22
80	Monitoring of chromosome dynamics of single yeast cells in a microfluidic platform with aperture cell traps. <i>Lab on A Chip</i> , 2016, 16, 1358-1365.	3.1	22
81	Analysis of small molecules by desorption/ionization on mesoporous silicate (DIOM)-mass spectrometry (MS). <i>Microporous and Mesoporous Materials</i> , 2007, 98, 200-207.	2.2	21
82	Direct synthesis of H ₂ O ₂ catalyzed by Pd nanoparticles encapsulated in the multi-layered polyelectrolyte nanoreactors on a charged sphere. <i>Chemical Communications</i> , 2011, 47, 5705.	2.2	21
83	Microfluidic synthesis of anisotropic particles from Janus drop by in situ photopolymerization. <i>Biomedical Engineering Letters</i> , 2012, 2, 95-99.	2.1	21
84	Label-Free Electrochemical Diagnosis of Viral Antigens with Genetically Engineered Fusion Protein. <i>Sensors</i> , 2012, 12, 10097-10108.	2.1	20
85	A Rapid In Situ Colorimetric Assay for Cobalt Detection by the Naked Eye. <i>Sensors</i> , 2016, 16, 626.	2.1	20
86	Profiling surface glycans on live cells and tissues using quantum dot-lectin nanoconjugates. <i>Lab on A Chip</i> , 2012, 12, 3290.	3.1	19
87	Controlled Fabrication of Microparticles with Complex 3D Geometries by Tunable Interfacial Deformation of Confined Polymeric Fluids in 2D Micromolds. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 11393-11401.	4.0	19
88	A highly facile and selective Chemo-Paper-Sensor (CPS) for detection of strontium. <i>Chemosphere</i> , 2016, 152, 39-46.	4.2	19
89	Programmable Static Droplet Array for the Analysis of Cell-Cell Communication in a Confined Microenvironment. <i>Analytical Chemistry</i> , 2017, 89, 9722-9729.	3.2	19
90	Microfluidics: an Untapped Resource in Viral Diagnostics and Viral Cell Biology. <i>Current Clinical Microbiology Reports</i> , 2018, 5, 245-251.	1.8	19

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91	Quantitative analysis of yeast MAPK signaling networks and crosstalk using a microfluidic device. <i>Lab on A Chip</i> , 2020, 20, 2646-2655.	3.1	19
92	An integrated microfluidic chip for the analysis of biochemical reactions by MALDI mass spectrometry. <i>Biomedical Microdevices</i> , 2008, 10, 1-9.	1.4	18
93	Aqueous Nd ³⁺ capture using a carboxyl-functionalized porous carbon derived from ZIF-8. <i>Journal of Colloid and Interface Science</i> , 2021, 594, 702-712.	5.0	18
94	Controllable Preparation of Monodisperse Microspheres Using Geometrically Mediated Droplet Formation in a Single Mold. <i>Langmuir</i> , 2013, 29, 8447-8451.	1.6	17
95	Capillarity-induced directed self-assembly of patchy hexagram particles at the air-water interface. <i>Soft Matter</i> , 2016, 12, 5847-5853.	1.2	17
96	Microfluidic approaches for the design of functional materials. <i>Microelectronic Engineering</i> , 2018, 199, 1-15.	1.1	17
97	Recent progress in the synthesis of inorganic particulate materials using microfluidics. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 98, 2-19.	2.7	17
98	Preparation of orthogonally functionalized surface using micromolding in capillaries technique for the control of cellular adhesion. <i>Colloids and Surfaces B: Biointerfaces</i> , 2008, 64, 126-134.	2.5	16
99	Light-emitting diode applications of colloidal CdSe/ZnS quantum dots embedded in TiO ₂ thin film. <i>Physica Status Solidi (B): Basic Research</i> , 2009, 246, 889-892.	0.7	16
100	Simultaneous and Dual Emissive Imaging by Micro-contact Printing on the Surface of Electrostatically Assembled Water-soluble Poly(<i>p</i> -phenylene) Using FRET. <i>Advanced Functional Materials</i> , 2010, 20, 3847-3855.	7.8	16
101	A light-up 1D supramolecular nanoprobe for silver ions based on assembly of pyrene-labeled peptide amphiphiles: cell-imaging and antimicrobial activity. <i>Journal of Materials Chemistry B</i> , 2014, 2, 6478-6486.	2.9	16
102	Synthesis of Bioactive Microcapsules Using a Microfluidic Device. <i>Sensors</i> , 2012, 12, 10136-10147.	2.1	15
103	Selection of Peptides for Lipopolysaccharide Binding on to Epoxy Beads and Selective Detection of Gram-negative Bacteria. <i>Biotechnology Letters</i> , 2006, 28, 79-84.	1.1	14
104	Improved DNA chip with poly(amidoamine) dendrimer peripherally modified with biotin and avidin. <i>Biotechnology and Bioprocess Engineering</i> , 2008, 13, 683-689.	1.4	14
105	Reliable Synthesis of Monodisperse Microparticles: Prevention of Oxygen Diffusion and Organic Solvents Using Conformal Polymeric Coating onto Poly(dimethylsiloxane) Micromold. <i>Langmuir</i> , 2013, 29, 3474-3481.	1.6	14
106	Fabrication of a paper-based analytical device for multiple colorimetric analysis via inkjet-printing and paper-cutting. <i>Biochip Journal</i> , 2015, 9, 139-143.	2.5	14
107	Scalable static droplet array for biochemical assays based on concentration gradients. <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 1572-1578.	4.0	14
108	Silaffin-3-derived pentyllysine cluster as a new fusion tag for one-step immobilization and purification of recombinant <i>Bacillus subtilis</i> catalase on bare silica particles. <i>International Journal of Biological Macromolecules</i> , 2020, 159, 1103-1112.	3.6	14

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109	Microfluidic Production of Mechanochromic Photonic Fibers Containing Nonclose-Packed Colloidal Arrays. <i>Small Science</i> , 2021, 1, 2000058.	5.8	14
110	Controlled network structures of chitosan-poly(ethylene glycol) hydrogel microspheres and their impact on protein conjugation. <i>Biochemical Engineering Journal</i> , 2018, 135, 123-132.	1.8	13
111	Preparation of chemically uniform and monodisperse microparticles as highly efficient solid acid catalysts for aldol condensation. <i>Chemical Engineering Science</i> , 2018, 175, 168-174.	1.9	13
112	Hydrodynamic control of droplet breakup, immobilization, and coalescence for a multiplex microfluidic static droplet array. <i>Chemical Engineering Journal</i> , 2019, 360, 562-568.	6.6	13
113	Asymmetric synthesis of unnatural-amino acids using thermophilic aromatic-amino acid transaminase. <i>Biotechnology and Bioprocess Engineering</i> , 2006, 11, 299-305.	1.4	12
114	Laser desorption/ionization-Mass spectrometry using mesoporous silicate as matrix for the analysis of various molecules. <i>Biotechnology and Bioprocess Engineering</i> , 2007, 12, 174-179.	1.4	12
115	Simple fabrication of functionalized surface with polyethylene glycol microstructure and glycidyl methacrylate moiety for the selective immobilization of proteins and cells. <i>Korean Journal of Chemical Engineering</i> , 2008, 25, 1467-1472.	1.2	12
116	Preparation of bacteria microarray using selective patterning of polyelectrolyte multilayer and poly(ethylene glycol)-poly(lactide) diblock copolymer. <i>Macromolecular Research</i> , 2010, 18, 254-259.	1.0	12
117	Synthesis of silica nanoparticles using biomimetic mineralization with polyallylamine hydrochloride. <i>Journal of Colloid and Interface Science</i> , 2017, 507, 145-153.	5.0	12
118	Nanosized and tunable design of biosilica particles using novel silica-forming peptide-modified chimeric ferritin templates. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 73, 198-204.	2.9	12
119	Diagnostic ability of salivary matrix metalloproteinase-9 lateral flow test point-of-care test for periodontitis. <i>Journal of Clinical Periodontology</i> , 2020, 47, 1354-1361.	2.3	12
120	Synthetic cellular communication-based screening for strains with improved 3-hydroxypropionic acid secretion. <i>Lab on A Chip</i> , 2021, 21, 4455-4463.	3.1	12
121	Preparation of Pt-Pd catalysts for direct formic acid fuel cell and their characteristics. <i>Korean Journal of Chemical Engineering</i> , 2007, 24, 518-521.	1.2	11
122	Facile Preparation of Biopatternable Surface for Selective Immobilization from Bacteria to Mammalian Cells. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 1204-1209.	0.9	11
123	Triblock Cylinders at Fluid-Fluid Interfaces. <i>Langmuir</i> , 2014, 30, 13199-13204.	1.6	11
124	Directed Assembly of Janus Cylinders by Controlling the Solvent Polarity. <i>Langmuir</i> , 2017, 33, 7503-7511.	1.6	11
125	Biochemical reactions on a microfluidic chip based on a precise fluidic handling method at the nanoliter scale. <i>Biotechnology and Bioprocess Engineering</i> , 2006, 11, 146-153.	1.4	10
126	Protein patterning on self-assembled polyelectrolyte thin films. <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 1581-1584.	1.9	10

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127	Fabrication of selective anti-biofouling surface for micro/nanopatterning of proteins. <i>Macromolecular Research</i> , 2010, 18, 868-875.	1.0	10
128	Rapid Functional Screening of <i>Streptomyces coelicolor</i> Regulators by Use of a pH Indicator and Application to the MarR-Like Regulator AbsC. <i>Applied and Environmental Microbiology</i> , 2010, 76, 3645-3656.	1.4	10
129	A method of binding kinetics of a ligand to micropatterned proteins on a microfluidic chip. <i>Biosensors and Bioelectronics</i> , 2007, 22, 891-898.	5.3	9
130	Formic acid oxidation by carbon-supported palladium catalysts in direct formic acid fuel cell. <i>Korean Journal of Chemical Engineering</i> , 2008, 25, 1026-1030.	1.2	9
131	The inhibitory effect of phloretin on the formation of <i>Escherichia coli</i> O157:H7 biofilm in a microfluidic system. <i>Biochip Journal</i> , 2012, 6, 299-305.	2.5	9
132	Generation of uniform agarose microwells for cell patterning by micromolding in capillaries. <i>Macromolecular Research</i> , 2013, 21, 534-540.	1.0	9
133	Fabrication of Polymeric Microcapsules in a Microchannel using Formation of Double Emulsion. <i>Korean Chemical Engineering Research</i> , 2013, 51, 597-601.	0.2	9
134	Rapid functional identification of putative genes based on the combined in vitro protein synthesis with mass spectrometry: A tool for functional genomics. <i>Analytical Biochemistry</i> , 2008, 375, 11-17.	1.1	8
135	Nanoadhesive layer to prevent protein absorption in a poly(dimethylsiloxane) microfluidic device. <i>BioTechniques</i> , 2020, 69, 46-51.	0.8	8
136	Programmable microfluidic flow for automatic multistep digital assay in a single-sheet 3-dimensional paper-based microfluidic device. <i>Chemical Engineering Journal</i> , 2021, 411, 128429.	6.6	8
137	Droplet-based Microfluidic Device for High-throughput Screening. <i>Korean Chemical Engineering Research</i> , 2014, 52, 141-153.	0.2	8
138	Integrated fabrication-conjugation methods for polymeric and hybrid microparticles for programmable drug delivery and biosensing applications. <i>Biotechnology Journal</i> , 2016, 11, 1561-1571.	1.8	7
139	Microfluidic Preparation of Monodisperse Multiple Emulsion using Hydrodynamic Control. <i>Korean Chemical Engineering Research</i> , 2012, 50, 733-737.	0.2	7
140	Fabrication of disposable protein chip for simultaneous sample detection. <i>Biotechnology and Bioprocess Engineering</i> , 2006, 11, 455-461.	1.4	6
141	Fragmentation study on butanolides with tandem mass spectrometry and its application for the screening of ScbR-captured quorum sensing molecules in <i>Streptomyces coelicolor</i> A3(2). <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 764-770.	0.7	6
142	Three-dimensional clustering of Janus cylinders by convex curvature and hydrophobic interactions. <i>Soft Matter</i> , 2015, 11, 4952-4961.	1.2	6
143	Microfluidic dual loops reactor for conducting a multistep reaction. <i>Frontiers of Chemical Science and Engineering</i> , 2018, 12, 239-246.	2.3	6
144	Simple Analysis of Lipid Inhibition Activity on an Adipocyte Micro-Cell Pattern Chip. <i>Biomolecules</i> , 2018, 8, 37.	1.8	6

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145	Immobilization of physicochemically stable Pd nanocatalysts inside uniform hydrogel microparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 593, 124607.	2.3	6
146	Surface-tension-induced double emulsion drops via phase separation of polymeric fluid confined in micromolds for capsule templates. <i>Journal of Colloid and Interface Science</i> , 2021, 582, 1012-1020.	5.0	6
147	In situ Microfluidic Method for the Generation of Monodisperse Double Emulsions. <i>Porrime</i> , 2012, 36, 177-181.	0.0	6
148	In situ Gelation of Monodisperse Alginate Hydrogel in Microfluidic Channel Based on Mass Transfer of Calcium Ions. <i>Korean Chemical Engineering Research</i> , 2014, 52, 632-637.	0.2	6
149	Nanopatterning of proteins using composite nanomold and self-assembled polyelectrolyte multilayers. <i>Macromolecular Research</i> , 2009, 17, 232-239.	1.0	5
150	Bacteria-Mediated Synthesis of Free-Standing Cobalt Oxide Rods. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 1129-1134.	0.9	5
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