

Won-Gun Koh

List of Publications by Year in descending order

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151
papers

5,233
citations

87401

40
h-index

124990

64
g-index

153
all docs

153
docs citations

153
times ranked

8507
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-stimuli responsive and reversible soft actuator engineered by layered fibrous matrix and hydrogel micropatterns. <i>Chemical Engineering Journal</i> , 2022, 427, 130879.	6.6	32
2	Self-powered finger motion-sensing structural color display enabled by block copolymer photonic crystal. <i>Nano Energy</i> , 2022, 92, 106688.	8.2	25
3	Stress Dissipation Encoded Silk Fibroin Electrode for the Athleteâ€Beneficial Silk Bioelectronics. <i>Advanced Science</i> , 2022, 9, e2105420.	5.6	11
4	Micro-textured silicone-based implant fabrication using electrospun fibers as a sacrificial template to suppress fibrous capsule formation. <i>Materials Science and Engineering C</i> , 2022, , 112687.	3.8	4
5	Feasible Digital Light Processing Three-Dimensional Printing of a Biodegradable Porous Polymer with a High Internal Phase Emulsion Structure. <i>ACS Applied Polymer Materials</i> , 2022, 4, 1570-1575.	2.0	5
6	Thermoresponsive fiber-based microwells capable of formation and retrieval of salivary gland stem cell spheroids for the regeneration of irradiation-damaged salivary glands. <i>Journal of Tissue Engineering</i> , 2022, 13, 204173142210856.	2.3	3
7	A Conceptual Study on Photodynamic Controlâ€Mediated Holographic Composites. <i>Advanced Photonics Research</i> , 2022, 3, .	1.7	1
8	Controlled Release of Epidermal Growth Factor from Furfuryl-Gelatin Hydrogel Using in Situ Visible Light-Induced Crosslinking and Its Effects on Fibroblasts Proliferation and Migration. <i>Gels</i> , 2022, 8, 214.	2.1	13
9	Topographical pattern for neuronal tissue engineering. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 114, 19-32.	2.9	3
10	The improved photosensitivity of photosensitive polyimides containing <i>ortho</i>-nitrobenzyl ether groups induced by the addition of photoacid generator. <i>Journal of Polymer Science</i> , 2021, 59, 340-352.	2.0	7
11	Enhanced photocatalytic activity of Ce-doped Î²-Ga2O3 nanofiber fabricated by electrospinning method. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 3402-3414.	1.1	4
12	Preparation of Surface-Reinforced Superabsorbent Polymer Hydrogel Microspheres via Incorporation of In Situ Synthesized Silver Nanoparticles. <i>Polymers</i> , 2021, 13, 902.	2.0	6
13	Preparation of alginate hydrogel with human-derived adipose tissue to improve fat graft survival and adipogenesis. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 95, 148-155.	2.9	4
14	Natural bio-based monomers for biomedical applications: a review. <i>Biomaterials Research</i> , 2021, 25, 8.	3.2	57
15	Chitosan/Cellulose-Based Porous Nanofilm Delivering C-Phycocyanin: A Novel Platform for the Production of Cost-Effective Cultured Meat. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 32193-32204.	4.0	24
16	Effects of basic fibroblast growth factor combined with an injectable in situ crosslinked hyaluronic acid hydrogel for a dermal filler. <i>Reactive and Functional Polymers</i> , 2021, 164, 104933.	2.0	18
17	SERS-based biosensing platform using shape-coded hydrogel microparticles incorporating silver nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2021, 341, 129989.	4.0	12
18	Body-mediated energy loss conversion for personalized cell vitalization. <i>Nano Energy</i> , 2021, 87, 106209.	8.2	8

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19	Gelatin MAGIC powder as nutrient-delivering 3D spacer for growing cell sheets into cost-effective cultured meat. <i>Biomaterials</i> , 2021, 278, 121155.	5.7	30
20	Integration of a fiber-based cell culture and biosensing system for monitoring of multiple protein markers secreted from stem cells. <i>Biosensors and Bioelectronics</i> , 2021, 193, 113531.	5.3	13
21	Electrically Conductive Micropatterned Polyaniline-Poly(ethylene glycol) Composite Hydrogel. <i>Materials</i> , 2021, 14, 308.	1.3	10
22	Blue Light-Activated Riboflavin Phosphate Promotes Collagen Crosslinking to Modify the Properties of Connective Tissues. <i>Materials</i> , 2021, 14, 5788.	1.3	7
23	Electrospun Fibers for Corneal Regeneration. <i>Current Ophthalmology Reports</i> , 2021, 9, 146-157.	0.5	5
24	Highly sensitive updatable green hologram recording polymer with photoisomerizable azobenzene with highly birefringent acetylene as the side chain. <i>Polymer Journal</i> , 2021, 53, 539-547.	1.3	4
25	In vivo biocompatibility evaluation of in situ-forming polyethylene glycol-collagen hydrogels in corneal defects. <i>Scientific Reports</i> , 2021, 11, 23913.	1.6	12
26	Highly-sensitive SERS-based immunoassay platform prepared on silver nanoparticle-decorated electrospun polymeric fibers. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 82, 341-348.	2.9	27
27	CD44-Mediated Methotrexate Delivery by Hyaluronan-Coated Nanoparticles Composed of a Branched Cell-Penetrating Peptide. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 494-504.	2.6	13
28	Recent Developments in Nanofiber Fabrication and Modification for Bone Tissue Engineering. <i>International Journal of Molecular Sciences</i> , 2020, 21, 99.	1.8	69
29	Highly luminescent biocompatible CsPbBr ₃ @SiO ₂ core-shell nanoprobes for bioimaging and drug delivery. <i>Journal of Materials Chemistry B</i> , 2020, 8, 10337-10345.	2.9	59
30	Preocular sensor system for concurrent monitoring of glucose levels and dry eye syndrome using tear fluids. <i>PLoS ONE</i> , 2020, 15, e0239317.	1.1	9
31	Composite Hydrogel of Methacrylated Hyaluronic Acid and Fragmented Polycaprolactone Nanofiber for Osteogenic Differentiation of Adipose-Derived Stem Cells. <i>Pharmaceutics</i> , 2020, 12, 902.	2.0	23
32	A novel 3D indirect co-culture system based on a collagen hydrogel scaffold for enhancing the osteogenesis of stem cells. <i>Journal of Materials Chemistry B</i> , 2020, 8, 9481-9491.	2.9	22
33	Zwitterion-assisted transition metal dichalcogenide nanosheets for scalable and biocompatible inkjet printing. <i>Nano Research</i> , 2020, 13, 2726-2734.	5.8	15
34	Simultaneous effects of silver-decorated graphite nanoplatelets and anisotropic alignments on improving thermal conductivity of stretchable poly(vinyl alcohol) composite films. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 138, 106045.	3.8	11
35	Cardiovascular tissue regeneration system based on multiscale scaffolds comprising double-layered hydrogels and fibers. <i>Scientific Reports</i> , 2020, 10, 20321.	1.6	17
36	Preparation and characterization of superabsorbent polymers (SAPs) surface-crosslinked with polycations. <i>Reactive and Functional Polymers</i> , 2020, 157, 104774.	2.0	12

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37	Effect of Silica Size and Content on Superamphiphobic Properties of Silica-Fluoropolymer Core-Shell Coatings. <i>Polymers</i> , 2020, 12, 2864.	2.0	10
38	3D touchless multiorder reflection structural color sensing display. <i>Science Advances</i> , 2020, 6, eabb5769.	4.7	81
39	Scaffold-supported extracellular matrices preserved by magnesium hydroxide nanoparticles for renal tissue regeneration. <i>Biomaterials Science</i> , 2020, 8, 5427-5440.	2.6	11
40	Thermoresponsive poly(N-isopropylacrylamide) hydrogel substrates micropatterned with poly(ethylene glycol) hydrogel for adipose mesenchymal stem cell spheroid formation and retrieval. <i>Materials Science and Engineering C</i> , 2020, 115, 111128.	3.8	12
41	Robust and superomniphobic core-shell SiO ₂ @poly(1H,1H,2H,2H-heptadecafluorodecyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 polymerization. <i>Progress in Organic Coatings</i> , 2020, 148, 105851.	1.9	5
42	Culture of neural stem cells on conductive and microgrooved polymeric scaffolds fabricated via electrospun fiber-template lithography. <i>Biomedical Materials (Bristol)</i> , 2020, 15, 045007.	1.7	18
43	Enhancement of antitumor effect of radiotherapy via combination with Au@SiO ₂ nanoparticles targeted to tumor-associated macrophages. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 84, 349-357.	2.9	6
44	Modulation of Foreign Body Reaction against PDMS Implant by Grafting Topographically Different Poly(acrylic acid) Micropatterns. <i>Macromolecular Bioscience</i> , 2019, 19, 1900206.	2.1	11
45	Fabrication of microgrooved scaffolds using near-field electrospinning-assisted lithography (NFEAL). <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 80, 471-478.	2.9	7
46	Synergistic Effect of Porous Hydroxyapatite Scaffolds Combined with Bioactive Glass/Poly(lactic-co-glycolic acid) Composite Fibers Promotes Osteogenic Activity and Bioactivity. <i>ACS Omega</i> , 2019, 4, 2302-2310.	1.6	21
47	Implantable multireservoir device with stimulus-responsive membrane for on-demand and pulsatile delivery of growth hormone. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 201906931.	3.3	20
48	Biodegradable polymers for modern vaccine development. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 77, 12-24.	2.9	43
49	Augmented re-endothelialization and anti-inflammation of coronary drug-eluting stent by abluminal coating with magnesium hydroxide. <i>Biomaterials Science</i> , 2019, 7, 2499-2510.	2.6	25
50	Micropatterned fibrous scaffolds for biomedical application. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 80, 729-738.	2.9	10
51	Mesenchymal stem cell 3D encapsulation technologies for biomimetic microenvironment in tissue regeneration. <i>Stem Cell Research and Therapy</i> , 2019, 10, 51.	2.4	90
52	A Novel Conductive and Micropatterned PEG-Based Hydrogel Enabling the Topographical and Electrical Stimulation of Myoblasts. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 47695-47706.	4.0	44
53	Highly sensitive metal-enhanced fluorescence biosensor prepared on electrospun fibers decorated with silica-coated silver nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2019, 284, 140-147.	4.0	45
54	A Fibrous Hybrid Patch Couples Cell-Derived Matrix and Poly(lactide-co-caprolactone) for Endothelial Cells Delivery and Skin Wound Repair. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 900-910.	2.6	16

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55	Cancer Selective Turn-On Fluorescence Imaging Using a Biopolymeric Nanocarrier. <i>Biomacromolecules</i> , 2019, 20, 1068-1076.	2.6	4
56	Signal-amplifying nanoparticle/hydrogel hybrid microarray biosensor for metal-enhanced fluorescence detection of organophosphorus compounds. <i>Biofabrication</i> , 2018, 10, 035002.	3.7	17
57	Converting Waste Papers to Fluorescent Carbon Dots in the Recycling Process without Loss of Ionic Liquids and Bioimaging Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 4510-4515.	3.2	75
58	Effects of Organic Acids and a Fluoropolymer on the Conductivity and Transparency of Poly(3,4-ethylenedioxythiophene) Films. <i>Macromolecular Research</i> , 2018, 26, 410-417.	1.0	6
59	Metal enhanced fluorescence (MEF) for biosensors: General approaches and a review of recent developments. <i>Biosensors and Bioelectronics</i> , 2018, 111, 102-116.	5.3	316
60	Controlled Release of Growth Factors from Multilayered Fibrous Scaffold for Functional Recoveries in Crushed Sciatic Nerve. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 576-586.	2.6	47
61	Multi-scale characterization of surface-crosslinked superabsorbent polymer hydrogel spheres. <i>Polymer</i> , 2018, 145, 174-183.	1.8	25
62	Incorporation of Conductive Materials into Hydrogels for Tissue Engineering Applications. <i>Polymers</i> , 2018, 10, 1078.	2.0	119
63	Organotypic 3D Culture in Nanoscaffold Microwells Supports Salivary Gland Stem-Cell-Based Organization. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 4311-4320.	2.6	37
64	Anisotropy-Driven High Thermal Conductivity in Stretchable Poly(vinyl alcohol)/Hexagonal Boron Nitride Nanohybrid Films. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 34625-34633.	4.0	80
65	Direct measurement of crosslinked surface layer in superabsorbent poly(acrylic acid). <i>Materials Letters</i> , 2018, 228, 33-36.	1.3	10
66	Enhancement of conductivity and transparency for of poly(3,4-ethylenedioxythiophene) films using photo-acid generator as dopant. <i>Polymer</i> , 2018, 147, 30-37.	1.8	4
67	Promotion of Vascular Morphogenesis of Endothelial Cells Co-Cultured with Human Adipose-Derived Mesenchymal Stem Cells Using Polycaprolactone/Gelatin Nanofibrous Scaffolds. <i>Nanomaterials</i> , 2018, 8, 117.	1.9	38
68	Stem cell properties of human clonal salivary gland stem cells are enhanced by three-dimensional priming culture in nanofibrous microwells. <i>Stem Cell Research and Therapy</i> , 2018, 9, 74.	2.4	16
69	Dual surface modification of PDMS-based silicone implants to suppress capsular contracture. <i>Acta Biomaterialia</i> , 2018, 76, 56-70.	4.1	38
70	Polyurethane matrix incorporating PDMS-based self-healing microcapsules with enhanced mechanical and thermal stability. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 518, 173-180.	2.3	31
71	Tethering Growth Factors to Collagen Surfaces Using Copper-Free Click Chemistry: Surface Characterization and in Vitro Biological Response. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 23389-23399.	4.0	33
72	Study of myoblast differentiation using multi-dimensional scaffolds consisting of nano and micropatterns. <i>Biomaterials Research</i> , 2017, 21, 1.	3.2	58

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73	Design of biomimetic cellular scaffolds for co-culture system and their application. <i>Journal of Tissue Engineering</i> , 2017, 8, 204173141772464.	2.3	69
74	Hydrophilic surface modification of poly(methyl methacrylate)-based ocular prostheses using poly(ethylene glycol) grafting. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 158, 287-294.	2.5	35
75	Cell Microarray Technologies for High-Throughput Cell-Based Biosensors. <i>Sensors</i> , 2017, 17, 1293.	2.1	37
76	Gold nanoparticles enhance anti-tumor effect of radiotherapy to hypoxic tumor. <i>Radiation Oncology Journal</i> , 2016, 34, 230-238.	0.7	34
77	Modification of heat storage ability and adhesive properties of core/shell structured phase change material nanocapsules. <i>Macromolecular Research</i> , 2016, 24, 556-561.	1.0	8
78	Protein-Immobilized Hydrogel Microstructures for Optical Biosensing. , 2016, , 305-326.		0
79	Bi-compartmental 3D scaffolds for the co-culture of intervertebral disk cells and mesenchymal stem cells. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 38, 113-122.	2.9	14
80	Hydrogel-Framed Nanofiber Matrix Integrated with a Microfluidic Device for Fluorescence Detection of Matrix Metalloproteinases-9. <i>Analytical Chemistry</i> , 2016, 88, 6247-6253.	3.2	43
81	Functional spheroid organization of human salivary gland cells cultured on hydrogel-micropatterned nanofibrous microwells. <i>Acta Biomaterialia</i> , 2016, 45, 121-132.	4.1	42
82	Highly conductive and hydrated PEG-based hydrogels for the potential application of a tissue engineering scaffold. <i>Reactive and Functional Polymers</i> , 2016, 109, 15-22.	2.0	48
83	Dendrimer porphyrin-coated gold nanoshells for the synergistic combination of photodynamic and photothermal therapy. <i>Chemical Communications</i> , 2016, 52, 1258-1261.	2.2	75
84	Preparation and characterization of octadecane/polyurea nanocapsule-embedded poly(ethylene oxide) nanofibers. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	4
85	Multi-Compartmental Hydrogel Microparticles Fabricated by Combination of Sequential Electrospinning and Photopatterning. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11511-11515.	7.2	36
86	Direct electrochemistry of glucose oxidase immobilized on carbon nanotube for improving glucose sensing. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 2199-2206.	3.8	56
87	Fabrication of biofuel cell containing enzyme catalyst immobilized by layer-by-layer method. <i>Journal of Power Sources</i> , 2015, 286, 197-203.	4.0	68
88	Ag@SiO ₂ -entrapped hydrogel microarray: a new platform for a metal-enhanced fluorescence-based protein assay. <i>Analyst</i> , 2015, 140, 3375-3383.	1.7	18
89	Microfluidic-based multiplex immunoassay system integrated with an array of QD-encoded microbeads. <i>Sensors and Actuators B: Chemical</i> , 2015, 209, 242-251.	4.0	38
90	Preparation of Fe ₃ O ₄ -Embedded Poly(styrene)/Poly(thiophene) Core/Shell Nanoparticles and Their Hydrogel Patterns for Sensor Applications. <i>Materials</i> , 2014, 7, 195-205.	1.3	13

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91	A three-dimensional co-culture of HepG2 spheroids and fibroblasts using double-layered fibrous scaffolds incorporated with hydrogel micropatterns. RSC Advances, 2014, 4, 61005-61011.	1.7	28
92	Metal-enhanced fluorescence using silver nanoparticles-embedded polyelectrolyte multilayer films for microarray-based immunoassays. Colloid and Polymer Science, 2014, 292, 1355-1364.	1.0	15
93	Magnetic nanoparticle-embedded PCM nanocapsules based on paraffin core and polyurea shell. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 450, 46-51.	2.3	122
94	Fabrication of Multifunctional Layer-by-Layer Nanocapsules toward the Design of Theragnostic Nanoplatfrom. Biomacromolecules, 2014, 15, 1382-1389.	2.6	42
95	Hydrogel Micropattern-Incorporated Fibrous Scaffolds Capable of Sequential Growth Factor Delivery for Enhanced Osteogenesis of hMSCs. ACS Applied Materials & Interfaces, 2014, 6, 9338-9348.	4.0	56
96	Synthesis and properties of phase change material-polypyrrole core-shell nanocapsules via Fe ³⁺ -oxidative miniemulsion polymerization. Macromolecular Research, 2013, 21, 298-301.	1.0	4
97	Application of cellular micropatterns to miniaturized cell-based biosensor. Biomedical Engineering Letters, 2013, 3, 117-130.	2.1	6
98	Mutiscale substrates based on hydrogel-incorporated silicon nanowires for protein patterning and microarray-based immunoassays. Biosensors and Bioelectronics, 2013, 45, 129-135.	5.3	38
99	Fabrication of Nanofiber Microarchitectures Localized within Hydrogel Microparticles and Their Application to Protein Delivery and Cell Encapsulation. Advanced Functional Materials, 2013, 23, 591-597.	7.8	51
100	Mesoporous TiO ₂ as a nanostructured substrate for cell culture and cell patterning. RSC Advances, 2013, 3, 23673.	1.7	8
101	Drug Delivery: Fabrication of Nanofiber Microarchitectures Localized within Hydrogel Microparticles and Their Application to Protein Delivery and Cell Encapsulation (Adv. Funct. Mater.) Tj ETQq1 1 0.784314 rgBT /Overl	4.0	20
102	Microfluidic bioassay system based on microarrays of hydrogel sensing elements entrapping quantum dot-enzyme conjugates. Biosensors and Bioelectronics, 2012, 31, 529-536.	5.3	49
103	Preparation of photolithographically patterned inverse opal hydrogel microstructures and its application to protein patterning. Biosensors and Bioelectronics, 2012, 35, 243-250.	5.3	26
104	Preparation of collagen-immobilized poly(ethylene glycol)/poly(2-hydroxyethyl methacrylate) interpenetrating network hydrogels for potential application of artificial cornea. Journal of Applied Polymer Science, 2012, 123, 637-645.	1.3	27
105	Micropatterns of double-layered nanofiber scaffolds with dual functions of cell patterning and metabolite detection. Lab on A Chip, 2011, 11, 2849.	3.1	34
106	Fabrication of hydrogel-micropatterned nanofibers for highly sensitive microarray-based immunosensors having additional enzyme-based sensing capability. Journal of Materials Chemistry, 2011, 21, 4476.	6.7	45
107	Graft Copolymer-Templated Mesoporous TiO ₂ Films Micropatterned with Poly(ethylene Tj ETQq1 1 0.784314 rgBT /Overl & Interfaces, 2011, 3, 573-581.	4.0	20
108	Efficiency improvement of dye-sensitized solar cells using graft copolymer-templated mesoporous TiO ₂ films as an interfacial layer. Journal of Materials Chemistry, 2011, 21, 1772-1779.	6.7	51

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109	Preparation of silver nanoparticle-containing semi-interpenetrating network hydrogels composed of pluronic and poly(acrylamide) with antibacterial property. <i>Journal of Industrial and Engineering Chemistry</i> , 2011, 17, 293-297.	2.9	40
110	Photosensitizing Hollow Nanocapsules for Combination Cancer Therapy. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11968-11971.	7.2	79
111	Micropatterning of a nanoporous alumina membrane with poly(ethylene glycol) hydrogel to create cellular micropatterns on nanotopographic substrates. <i>Acta Biomaterialia</i> , 2011, 7, 1281-1289.	4.1	36
112	Non-positional cell microarray prepared by shape-coded polymeric microboards: A new microarray format for multiplex and high throughput cell-based assays. <i>Biomicrofluidics</i> , 2011, 5, 32001-3200110.	1.2	7
113	Cell Microarrays Based on Hydrogel Microstructures for the Application to Cell-Based Biosensor. <i>Methods in Molecular Biology</i> , 2011, 671, 133-145.	0.4	2
114	Fabrication of poly(ethylene glycol)-based hydrogels entrapping enzyme-immobilized silica nanoparticles. <i>Polymers for Advanced Technologies</i> , 2010, 21, 476-482.	1.6	17
115	Micropatterned Fibrous Scaffolds Fabricated Using Electrospinning and Hydrogel Lithography: New Platforms to Create Cellular Micropatterns. <i>Sensors and Actuators B: Chemical</i> , 2010, 148, 504-510.	4.0	20
116	Micropatterned assembly of silica nanoparticles for a protein microarray with enhanced detection sensitivity. <i>Biomedical Microdevices</i> , 2010, 12, 457-464.	1.4	10
117	Fabrication and characterization of optical biosensors using polymer hydrogel microparticles and enzyme-quantum dot conjugates. <i>Sensors and Actuators B: Chemical</i> , 2010, 150, 120-125.	4.0	21
118	Development of phenol detecting biosensor using PEG hydrogel microparticles. , 2010, , .		1
119	Fast cell immobilization by using non-immunological method for cell based biosensor. , 2010, , .		0
120	Poly(thiophene) Nanoparticles Prepared by Fe ³⁺ -Catalyzed Oxidative Polymerization: A Size-Dependent Effect on Photoluminescence Property. <i>Macromolecules</i> , 2010, 43, 2484-2489.	2.2	39
121	Phenol biosensor based on hydrogel microarrays entrapping tyrosinase and quantum dots. <i>Analyst</i> , 2010, 135, 2871.	1.7	51
122	Dendrimer porphyrin-terminated polyelectrolyte multilayer micropatterns for a protein microarray with enhanced sensitivity. <i>Journal of Materials Chemistry</i> , 2010, 20, 6531.	6.7	15
123	Cell-based biosensor system using micropatterned polymer nanofiber. , 2010, , .		2
124	Preparation of protein microarrays on non-fouling and hydrated poly(ethylene glycol) hydrogel substrates using photochemical surface modification. <i>Journal of Chemical Technology and Biotechnology</i> , 2009, 84, 279-284.	1.6	18
125	Entrapment of enzyme-linked magnetic nanoparticles within poly(ethylene glycol) hydrogel microparticles prepared by photopatterning. <i>Reactive and Functional Polymers</i> , 2009, 69, 293-299.	2.0	25
126	Poly(ethylene glycol) hydrogel microparticles containing enzyme-fluorophore conjugates for the detection of organophosphorus compounds. <i>Sensors and Actuators B: Chemical</i> , 2009, 137, 209-214.	4.0	7

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127	Fabrication of microfluidic devices incorporating bead-based reaction and microarray-based detection system for enzymatic assay. <i>Sensors and Actuators B: Chemical</i> , 2009, 137, 305-312.	4.0	45
128	Control of cell adhesion on poly(ethylene glycol) hydrogel surfaces using photochemical modification and micropatterning techniques. <i>Journal of Industrial and Engineering Chemistry</i> , 2009, 15, 124-128.	2.9	11
129	Immobilization of enzymes within hydrogel microparticles to create optical biosensors for the detection of organophosphorus compounds. <i>Current Applied Physics</i> , 2009, 9, e225-e228.	1.1	12
130	Protein-conjugated, glucose-sensitive surface using fluorescent dendrimer porphyrin. <i>Journal of Materials Chemistry</i> , 2009, 19, 5643.	6.7	30
131	Suspension arrays of hydrogel microparticles prepared by photopatterning for multiplexed protein-based bioassays. <i>Biomedical Microdevices</i> , 2008, 10, 813-822.	1.4	41
132	Development of microfluidic devices incorporating non-spherical hydrogel microparticles for protein-based bioassay. <i>Microfluidics and Nanofluidics</i> , 2008, 5, 703-710.	1.0	34
133	Preparation of interpenetrating polymer network composed of poly(ethylene glycol) and poly(acrylamide) hydrogels as a support of enzyme immobilization. <i>Polymers for Advanced Technologies</i> , 2008, 19, 852-858.	1.6	27
134	Fabrication of macroporous hydrogel membranes using photolithography for enzyme immobilization. <i>Journal of Chemical Technology and Biotechnology</i> , 2008, 83, 252-259.	1.6	14
135	Preparation of micropatterned hydrogel substrate via surface graft polymerization combined with photolithography for biosensor application. <i>Sensors and Actuators B: Chemical</i> , 2008, 129, 841-849.	4.0	57
136	Micropatterning of proteins on the surface of three-dimensional poly(ethylene glycol) hydrogel microstructures. <i>Analytica Chimica Acta</i> , 2008, 609, 59-65.	2.6	45
137	Hepatocyte Viability and Protein Expression within Hydrogel Microstructures. <i>Biotechnology Progress</i> , 2008, 21, 926-932.	1.3	26
138	Use of hydrogel microstructures as templates for protein immobilization. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1095, 80801.	0.1	0
139	Ultraviolet Photolithographic Development of Polyphosphazene Hydrogel Microstructures for Potential Use in Microarray Biosensors. <i>Chemistry of Materials</i> , 2006, 18, 609-613.	3.2	38
140	Fabrication of cell-containing hydrogel microstructures inside microfluidic devices that can be used as cell-based biosensors. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 385, 1389-1397.	1.9	69
141	Multi-phenotypic Cellular Arrays for Biosensing. , 2006, , 79-93.		1
142	Immobilization of multi-enzyme microreactors inside microfluidic devices. <i>Sensors and Actuators B: Chemical</i> , 2005, 106, 335-342.	4.0	89
143	A Novel Single-Step Fabrication Technique to Create Heterogeneous Poly(ethylene glycol) Hydrogel Microstructures Containing Multiple Phenotypes of Mammalian Cells. <i>Langmuir</i> , 2005, 21, 4168-4174.	1.6	24
144	Microfabricated protein-containing poly(ethylene glycol) hydrogel arrays for biosensing. <i>Sensors and Actuators B: Chemical</i> , 2004, 97, 290-297.	4.0	71

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145	Title is missing!. Biomedical Microdevices, 2003, 5, 11-19.	1.4	78
146	Molding of Hydrogel Microstructures to Create Multiphenotype Cell Microarrays. Analytical Chemistry, 2003, 75, 5783-5789.	3.2	129
147	Photoreaction Injection Molding of Biomaterial Microstructures. Langmuir, 2003, 19, 10310-10316.	1.6	32
148	Poly(ethylene glycol) Hydrogel Microstructures Encapsulating Living Cells. Langmuir, 2002, 18, 2459-2462.	1.6	226
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