

Hyunmin Yi

List of Publications by Year in descending order

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papers

3,195
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172207

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#	ARTICLE	IF	CITATIONS
1	Triple Emulsion-Based Rapid Microfluidic Production of Core-Shell Hydrogel Microspheres for Programmable Biomolecular Conjugation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 11579-11587.	4.0	20
2	A Robust Fabrication Technique for Hydrogel Films Containing Micropatterned Opal Structures via Micromolding and an Integrated Evaporative Deposition-Photopolymerization Approach. <i>Langmuir</i> , 2021, 37, 1456-1464.	1.6	7
3	Membranes with Thin Hydrogel Selective Layers Containing Viral-Templated Palladium Nanoparticles for the Catalytic Reduction of Cr(VI) to Cr(III). <i>ACS Applied Nano Materials</i> , 2019, 2, 5233-5244.	2.4	22
4	Dual-colour generation from layered colloidal photonic crystals harnessing core hatching in double emulsions. <i>Journal of Materials Chemistry C</i> , 2019, 7, 6924-6931.	2.7	14
5	A Method for Manufacturing Membranes with Ultrathin Hydrogel Selective Layers for Protein Purification: Interfacially Initiated Free Radical Polymerization (IIFRP). <i>Chemistry of Materials</i> , 2018, 30, 1265-1276.	3.2	26
6	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
7	High-throughput double emulsion-based microfluidic production of hydrogel microspheres with tunable chemical functionalities toward biomolecular conjugation. <i>Lab on A Chip</i> , 2018, 18, 323-334.	3.1	51
8	Integrated Methods to Manufacture Hydrogel Microparticles Containing Viral-Metal Nanocomplexes with High Catalytic Activity. <i>Methods in Molecular Biology</i> , 2018, 1776, 569-578.	0.4	2
9	Integrated Methods to Manufacture Hydrogel Microparticles with High Protein Conjugation Capacity and Binding Kinetics via Viral Nanotemplate Display. <i>Methods in Molecular Biology</i> , 2018, 1776, 579-589.	0.4	1
10	Shape-Encoded Chitosan-Polyacrylamide Hybrid Hydrogel Microparticles with Controlled Macroporous Structures via Replica Molding for Programmable Biomacromolecular Conjugation. <i>Langmuir</i> , 2016, 32, 5394-5402.	1.6	16
11	Electrical Charging Characteristics of Palladium Nanoparticles Synthesized on Tobacco Mosaic Virus Nanotemplate for Organic Memory Device. <i>ECS Journal of Solid State Science and Technology</i> , 2016, 5, Q226-Q230.	0.9	5
12	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
13	Improved Protein Conjugation with Uniform, Macroporous Poly(acrylamide-co-acrylic acid) Hydrogel Microspheres via EDC/NHS Chemistry. <i>Langmuir</i> , 2016, 32, 11043-11054.	1.6	54
14	Porosity-Tuned Chitosan-Polyacrylamide Hydrogel Microspheres for Improved Protein Conjugation. <i>Biomacromolecules</i> , 2016, 17, 2427-2436.	2.6	18
15	Multiplexed hydrogel microparticle suspension arrays for facile ribosomal RNA integrity assays. <i>Biotechnology and Bioprocess Engineering</i> , 2015, 20, 956-964.	1.4	6
16	Viral Templated Palladium Nanocatalysts. <i>ChemCatChem</i> , 2015, 7, 2015-2024.	1.8	4
17	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
18	Facile Micromolding-Based Fabrication of Biopolymeric-Synthetic Hydrogel Microspheres with Controlled Structures for Improved Protein Conjugation. <i>Chemistry of Materials</i> , 2015, 27, 3988-3998.	3.2	21

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19	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
20	Integrated fabrication-conjugation approaches for biomolecular assembly and protein sensing with hybrid microparticle platforms and biofabrication - A focused minireview. <i>Korean Journal of Chemical Engineering</i> , 2015, 32, 1713-1719.	1.2	6
21	A biofabrication approach for controlled synthesis of silver nanoparticles with high catalytic and antibacterial activities. <i>Biochemical Engineering Journal</i> , 2014, 89, 10-20.	1.8	22
22	An Integrated Approach for Enhanced Protein Conjugation and Capture with Viral Nanotemplates and Hydrogel Microparticle Platforms via Rapid Bioorthogonal Reactions. <i>Langmuir</i> , 2014, 30, 7762-7770.	1.6	26
23	Investigation on the catalytic reduction kinetics of hexavalent chromium by viral-templated palladium nanocatalysts. <i>Catalysis Today</i> , 2014, 233, 108-116.	2.2	61
24	Biologically inspired strategy for programmed assembly of viral building blocks with controlled dimensions. <i>Biotechnology Journal</i> , 2013, 8, 237-246.	1.8	19
25	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
26	Facile Strategy for Protein Conjugation with Chitosan-Poly(ethylene glycol) Hybrid Microparticle Platforms via Strain-Promoted Alkyne-Azide Cycloaddition (SPAAC) Reaction. <i>Biomacromolecules</i> , 2013, 14, 3892-3902.	2.6	30
27	Fabrication of Chitosan-Poly(ethylene glycol) Hybrid Hydrogel Microparticles via Replica Molding and Its Application toward Facile Conjugation of Biomolecules. <i>Langmuir</i> , 2012, 28, 17061-17070.	1.6	46
28	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
29	Microfluidic fabrication of complex-shaped microfibers by liquid template-aided multiphase microflow. <i>Lab on A Chip</i> , 2011, 11, 1477.	3.1	91
30	Viral-templated palladium nanocatalysts for Suzuki coupling reaction. <i>Journal of Materials Chemistry</i> , 2011, 21, 187-194.	6.7	58
31	In Situ Small-Angle X-ray Scattering Analysis of Palladium Nanoparticle Growth on Tobacco Mosaic Virus Nanotemplates. <i>Langmuir</i> , 2011, 27, 7052-7058.	1.6	29
32	LuxS Coexpression Enhances Yields of Recombinant Proteins in <i>Escherichia coli</i> in Part through Posttranscriptional Control of GroEL. <i>Applied and Environmental Microbiology</i> , 2011, 77, 2141-2152.	1.4	18
33	Viral templated palladium nanocatalysts for dichromate reduction. <i>Applied Catalysis B: Environmental</i> , 2010, 93, 282-291.	10.8	52
34	Facile approaches to control catalytic activity of viral-templated palladium nanocatalysts for dichromate reduction. <i>Biochemical Engineering Journal</i> , 2010, 52, 160-167.	1.8	19
35	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
36	Simple, Readily Controllable Palladium Nanoparticle Formation on Surface-Assembled Viral Nanotemplates. <i>Langmuir</i> , 2010, 26, 3670-3677.	1.6	66

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37	Microfluidic Fabrication of Hydrogel Microparticles Containing Functionalized Viral Nanotemplates. <i>Langmuir</i> , 2010, 26, 13436-13441.	1.6	62
38	On the Thermal Stability of Surface-Assembled Viral-Metal Nanoparticle Complexes. <i>Langmuir</i> , 2010, 26, 7516-7522.	1.6	20
39	Facile fabrication of gelatin-based biopolymeric optical waveguides. <i>Biotechnology and Bioengineering</i> , 2009, 103, 725-732.	1.7	44
40	Molecular characterization of surfactant-driven microbial community changes in anaerobic phenanthrene-degrading cultures under methanogenic conditions. <i>Biotechnology Letters</i> , 2008, 30, 1595-1601.	1.1	14
41	Protein assembly onto patterned microfabricated devices through enzymatic activation of fusion protein. <i>Biotechnology and Bioengineering</i> , 2008, 99, 499-507.	1.7	32
42	Towards area-based in vitro metabolic engineering: Assembly of Pfs enzyme onto patterned microfabricated chips. <i>Biotechnology Progress</i> , 2008, 24, 1042-1051.	1.3	19
43	Programmable assembly of a metabolic pathway enzyme in a pre-packaged reusable bioMEMS device. <i>Lab on A Chip</i> , 2008, 8, 420.	3.1	53
44	Hierarchical Assembly of Viral Nanotemplates with Encoded Microparticles via Nucleic Acid Hybridization. <i>Langmuir</i> , 2008, 24, 12483-12488.	1.6	41
45	Integrated biophotonic hybridization sensor based on chitosan-mediated assembly. , 2007, , .		0
46	Mechano-transduction of DNA hybridization and dopamine oxidation through electrodeposited chitosan network. <i>Lab on A Chip</i> , 2007, 7, 103-111.	3.1	44
47	TMV Microarrays: A Hybridization-Based Assembly of DNA-Programmed Viral Nanotemplates. <i>Langmuir</i> , 2007, 23, 2663-2667.	1.6	59
48	Chitosan-mediated in situ biomolecule assembly in completely packaged microfluidic devices. <i>Lab on A Chip</i> , 2006, 6, 1315.	3.1	68
49	Chitosan for Biofunctionalization of Microsystems. , 2006, , .		0
50	In situ Biomolecule Assembly and Activity within Completely Packaged Microfluidic Devices. , 2006, , .		0
51	Chitosan-mediated Patterned Viral Nanotemplate Assembly onto Inorganic Substrates through Nucleic Acid Hybridization. , 2006, , .		0
52	Optical biosensors based on etched fiber Bragg gratings. , 2005, , .		5
53	Toward a biophotonic MEMS cell sensor. , 2005, , .		1
54	Detecting hybridization of DNA by highly sensitive evanescent field etched core fiber Bragg grating sensors. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2005, 11, 864-872.	1.9	122

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55	A fabrication platform for electrically mediated optically active biofunctionalized sites in BioMEMS. Lab on A Chip, 2005, 5, 583.	3.1	31
56	Patterned Assembly of Genetically Modified Viral Nanotemplates via Nucleic Acid Hybridization. Nano Letters, 2005, 5, 1931-1936.	4.5	156
57	Signal-Directed Sequential Assembly of Biomolecules on Patterned Surfaces. Langmuir, 2005, 21, 2104-2107.	1.6	46
58	Biofabrication with Chitosan. Biomacromolecules, 2005, 6, 2881-2894.	2.6	667
59	A Robust Technique for Assembly of Nucleic Acid Hybridization Chips Based on Electrochemically Templated Chitosan. Analytical Chemistry, 2004, 76, 365-372.	3.2	61
60	Thermo-Biolithography: A Technique for Patterning Nucleic Acids and Proteins. Langmuir, 2004, 20, 906-913.	1.6	23
61	Chitosan scaffolds for biomolecular assembly: Coupling nucleic acid probes for detecting hybridization. Biotechnology and Bioengineering, 2003, 83, 646-652.	1.7	33
62	Spatially Selective Deposition of a Reactive Polysaccharide Layer onto a Patterned Template. Langmuir, 2003, 19, 519-524.	1.6	111
63	Electrochemically Induced Deposition of a Polysaccharide Hydrogel onto a Patterned Surface. Langmuir, 2003, 19, 4058-4062.	1.6	184
64	Voltage-Dependent Assembly of the Polysaccharide Chitosan onto an Electrode Surface. Langmuir, 2002, 18, 8620-8625.	1.6	283
65	Voltage-programmable biofunctionality in MEMS environments using electrodeposition of a reactive polysaccharide. , 0, , .		0