# Hyung Joon Cha

#### List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

236 papers

6,013 citations

42 h-index

64 g-index

244 ext. papers

6,804 ext. citations

6.9 avg, IF

6.02 L-index

#	Paper	IF	Citations
236	Mussel-mimetic protein-based adhesive hydrogel. <i>Biomacromolecules</i> , <b>2014</b> , 15, 1579-85	6.9	211
235	Cell adhesion biomaterial based on mussel adhesive protein fused with RGD peptide. <i>Biomaterials</i> , <b>2007</b> , 28, 4039-46	15.6	159
234	Practical recombinant hybrid mussel bioadhesive fp-151. <i>Biomaterials</i> , <b>2007</b> , 28, 3560-8	15.6	157
233	Expression of functional recombinant mussel adhesive protein Mgfp-5 in Escherichia coli. <i>Applied and Environmental Microbiology</i> , <b>2004</b> , 70, 3352-9	4.8	141
232	Development of bioadhesives from marine mussels. <i>Biotechnology Journal</i> , <b>2008</b> , 3, 631-8	5.6	126
231	Rapidly light-activated surgical protein glue inspired by mussel adhesion and insect structural crosslinking. <i>Biomaterials</i> , <b>2015</b> , 67, 11-9	15.6	115
230	The adhesive properties of coacervated recombinant hybrid mussel adhesive proteins. <i>Biomaterials</i> , <b>2010</b> , 31, 3715-22	15.6	115
229	A novel organophosphorus hydrolase-based biosensor using mesoporous carbons and carbon black for the detection of organophosphate nerve agents. <i>Biosensors and Bioelectronics</i> , <b>2010</b> , 25, 1566-70	11.8	108
228	Reusability Comparison of Melt-Blown vs Nanofiber Face Mask Filters for Use in the Coronavirus Pandemic. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 7231-7241	5.6	103
227	Observations of green fluorescent protein as a fusion partner in genetically engineered Escherichia coli: Monitoring protein expression and solubility. <i>Biotechnology and Bioengineering</i> , <b>2000</b> , 67, 565-574	4.9	102
226	Functional display of foreign protein on surface of Escherichia coli using N-terminal domain of ice nucleation protein. <i>Biotechnology and Bioengineering</i> , <b>2004</b> , 85, 214-21	4.9	90
225	Biomineralization-based conversion of carbon dioxide to calcium carbonate using recombinant carbonic anhydrase. <i>Chemosphere</i> , <b>2012</b> , 87, 1091-6	8.4	87
224	A facile and sensitive detection of pathogenic bacteria using magnetic nanoparticles and optical nanocrystal probes. <i>Analyst, The</i> , <b>2012</b> , 137, 3609-12	5	80
223	Carbon Nanodots: Dual-Color-Emitting Carbon Nanodots for Multicolor Bioimaging and Optogenetic Control of Ion Channels (Adv. Sci. 11/2017). <i>Advanced Science</i> , <b>2017</b> , 4,	13.6	78
222	Surface-independent antibacterial coating using silver nanoparticle-generating engineered mussel glue. ACS Applied Materials & amp; Interfaces, 2014, 6, 20242-53	9.5	77
221	Enhancement of bone regeneration through facile surface functionalization of solid freeform fabrication-based three-dimensional scaffolds using mussel adhesive proteins. <i>Acta Biomaterialia</i> , <b>2012</b> , 8, 2578-86	10.8	71
220	Cell behavior on extracellular matrix mimic materials based on mussel adhesive protein fused with functional peptides. <i>Biomaterials</i> , <b>2010</b> , 31, 8980-8	15.6	70

# (2015-2014)

219	Bioinspired Silica Nanocomposite with Autoencapsulated Carbonic Anhydrase as a Robust Biocatalyst for CO2 Sequestration. <i>ACS Catalysis</i> , <b>2014</b> , 4, 4332-4340	13.1	69	
218	Simplification of titer determination for recombinant baculovirus by green fluorescent protein marker. <i>BioTechniques</i> , <b>1997</b> , 23, 782-4, 786	2.5	69	
217	In vivo residue-specific dopa-incorporated engineered mussel bioglue with enhanced adhesion and water resistance. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 13360-4	16.4	66	
216	Expression of functional recombinant mussel adhesive protein type 3A in Escherichia coli. <i>Biotechnology Progress</i> , <b>2005</b> , 21, 965-70	2.8	66	
215	Green fluorescent protein as a noninvasive stress probe in resting Escherichia coli cells. <i>Applied and Environmental Microbiology</i> , <b>1999</b> , 65, 409-14	4.8	64	
214	Mussel adhesion-employed water-immiscible fluid bioadhesive for urinary fistula sealing. <i>Biomaterials</i> , <b>2015</b> , 72, 104-11	15.6	61	
213	Upconversion Nanoparticles/Hyaluronate-Rose Bengal Conjugate Complex for Noninvasive Photochemical Tissue Bonding. <i>ACS Nano</i> , <b>2017</b> , 11, 9979-9988	16.7	61	
212	Down-regulation of acetate pathway through antisense strategy in Escherichia coli: improved foreign protein production. <i>Biotechnology and Bioengineering</i> , <b>2003</b> , 83, 841-53	4.9	60	
211	Facile and rapid direct gold surface immobilization with controlled orientation for carbohydrates. <i>Bioconjugate Chemistry</i> , <b>2007</b> , 18, 2197-201	6.3	59	
<b>21</b> 0	Engineered Escherichia coli with periplasmic carbonic anhydrase as a biocatalyst for CO2 sequestration. <i>Applied and Environmental Microbiology</i> , <b>2013</b> , 79, 6697-705	4.8	58	
209	Bulk adhesive strength of recombinant hybrid mussel adhesive protein. <i>Biofouling</i> , <b>2009</b> , 25, 99-107	3.3	58	
208	Production and N-glycan analysis of secreted human erythropoietin glycoprotein in stably transfected Drosophila S2 cells. <i>Biotechnology and Bioengineering</i> , <b>2005</b> , 92, 452-61	4.9	58	
207	Switch of Surface Adhesion to Cohesion by Dopa-Fe3+ Complexation, in Response to Microenvironment at the Mussel Plaque/Substrate Interface. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 7982-798	<b>39</b> .6	57	
206	Multiple detection of food-borne pathogenic bacteria using a novel 16S rDNA-based oligonucleotide signature chip. <i>Biosensors and Bioelectronics</i> , <b>2007</b> , 22, 845-53	11.8	54	
205	Facilitation of expression and purification of an antimicrobial peptide by fusion with baculoviral polyhedrin in Escherichia coli. <i>Applied and Environmental Microbiology</i> , <b>2005</b> , 71, 5038-43	4.8	54	
204	Control of nacre biomineralization by Pif80 in pearl oyster. <i>Science Advances</i> , <b>2017</b> , 3, e1700765	14.3	53	
203	Bio-inspired swellable hydrogel-forming double-layered adhesive microneedle protein patch for regenerative internal/external surgical closure. <i>Biomaterials</i> , <b>2019</b> , 222, 119439	15.6	52	
202	Mussel-Inspired Protein Nanoparticles Containing Iron(III)-DOPA Complexes for pH-Responsive Drug Delivery. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 7318-22	16.4	52	

201	Diatom-Inspired Silica Nanostructure Coatings with Controllable Microroughness Using an Engineered Mussel Protein Glue to Accelerate Bone Growth on Titanium-Based Implants. <i>Advanced Materials</i> , <b>2017</b> , 29, 1704906	24	50
200	Expression and purification of human interleukin-2 simplified as a fusion with green fluorescent protein in suspended Sf-9 insect cells. <i>Journal of Biotechnology</i> , <b>1999</b> , 69, 9-17	3.7	50
199	Natural healing-inspired collagen-targeting surgical protein glue for accelerated scarless skin regeneration. <i>Biomaterials</i> , <b>2017</b> , 134, 154-165	15.6	47
198	Mussel-inspired adhesive protein-based electrospun nanofibers reinforced by Fe(iii)-DOPA complexation. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 112-118	7.3	46
197	Bioconjugation of L-3,4-dihydroxyphenylalanine containing protein with a polysaccharide. <i>Bioconjugate Chemistry</i> , <b>2011</b> , 22, 551-5	6.3	46
196	Recombinant mussel adhesive protein fp-5 (MAP fp-5) as a bulk bioadhesive and surface coating material. <i>Biofouling</i> , <b>2011</b> , 27, 729-37	3.3	45
195	Insect larval expression process is optimized by generating fusions with green fluorescent protein. <i>Biotechnology and Bioengineering</i> , <b>1999</b> , 65, 316-24	4.9	43
194	In vivo modification of tyrosine residues in recombinant mussel adhesive protein by tyrosinase co-expression in Escherichia coli. <i>Microbial Cell Factories</i> , <b>2012</b> , 11, 139	6.4	42
193	Functional periplasmic secretion of organophosphorous hydrolase using the twin-arginine translocation pathway in Escherichia coli. <i>Journal of Biotechnology</i> , <b>2005</b> , 118, 379-85	3.7	42
192	Accelerated skin wound healing using electrospun nanofibrous mats blended with mussel adhesive protein and polycaprolactone. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2017</b> , 105, 218-225	5.4	41
191	Electrospun antibacterial polyacrylonitrile nanofiber membranes functionalized with silver nanoparticles by a facile wetting method. <i>European Polymer Journal</i> , <b>2018</b> , 108, 69-75	5.2	40
190	Expression of green fluorescent protein in insect larvae and its application for heterologous protein production. <i>Biotechnology and Bioengineering</i> , <b>1997</b> , 56, 239-47	4.9	40
189	Recombinant mussel adhesive protein Mgfp-5 as cell adhesion biomaterial. <i>Journal of Biotechnology</i> , <b>2007</b> , 127, 727-35	3.7	40
188	Enhanced biodegradation of toxic organophosphate compounds using recombinant Escherichia coli with sec pathway-driven periplasmic secretion of organophosphorus hydrolase. <i>Biotechnology Progress</i> , <b>2006</b> , 22, 406-10	2.8	40
187	Mussel adhesive protein-based whole cell array biosensor for detection of organophosphorus compounds. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 41, 199-204	11.8	39
186	Complex coacervates based on recombinant mussel adhesive proteins: their characterization and applications. <i>Soft Matter</i> , <b>2017</b> , 13, 7704-7716	3.6	38
185	Interfacial tension of complex coacervated mussel adhesive protein according to the Hofmeister series. <i>Langmuir</i> , <b>2014</b> , 30, 1108-15	4	38
184	A facile and sensitive immunoassay for the detection of alpha-fetoprotein using gold-coated magnetic nanoparticle clusters and dynamic light scattering. <i>Chemical Communications</i> , <b>2011</b> , 47, 1104	7-§ <sup>.8</sup>	36

# (2014-2013)

183	Enhanced endothelialization for developing artificial vascular networks with a natural vessel mimicking the luminal surface in scaffolds. <i>Acta Biomaterialia</i> , <b>2013</b> , 9, 4716-25	10.8	35
182	A facile and sensitive method for detecting pathogenic bacteria using personal glucose meters. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 188, 1250-1254	8.5	35
181	A bioinspired dual-crosslinked tough silk protein hydrogel as a protective biocatalytic matrix for carbon sequestration. <i>NPG Asia Materials</i> , <b>2017</b> , 9, e391-e391	10.3	35
180	Combinational Biomimicking of Lotus Leaf, Mussel, and Sandcastle Worm for Robust Superhydrophobic Surfaces with Biomedical Multifunctionality: Antithrombotic, Antibiofouling, and Tissue Closure Capabilities. <i>ACS Applied Materials &amp; Discrete Samp</i> ; Interfaces, 2019, 11, 9777-9785	9.5	34
179	Framework for online optimization of recombinant protein expression in high-cell-density Escherichia coli cultures using GFP-fusion monitoring. <i>Biotechnology and Bioengineering</i> , <b>2000</b> , 69, 275-8	<b>4</b> .9	34
178	Engineering de novo disulfide bond in bacterial Eype carbonic anhydrase for thermostable carbon sequestration. <i>Scientific Reports</i> , <b>2016</b> , 6, 29322	4.9	34
177	Highly purified mussel adhesive protein to secure biosafety for in vivo applications. <i>Microbial Cell Factories</i> , <b>2014</b> , 13, 52	6.4	33
176	A rapid, efficient, and facile solution for dental hypersensitivity: The tannin-iron complex. <i>Scientific Reports</i> , <b>2015</b> , 5, 10884	4.9	33
175	Production of biohydrogen by recombinant expression of [NiFe]-hydrogenase 1 in Escherichia coli. <i>Microbial Cell Factories</i> , <b>2010</b> , 9, 54	6.4	33
174	Reinforced multifunctionalized nanofibrous scaffolds using mussel adhesive proteins. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 675-8	16.4	32
173	In vivo endothelization of tubular vascular grafts through in situ recruitment of endothelial and endothelial progenitor cells by RGD-fused mussel adhesive proteins. <i>Biofabrication</i> , <b>2015</b> , 7, 015007	10.5	32
172	A comparative study on the bulk adhesive strength of the recombinant mussel adhesive protein fp-3. <i>Biofouling</i> , <b>2013</b> , 29, 483-90	3.3	32
171	Role of Pif97 in Nacre Biomineralization: In Vitro Characterization of Recombinant Pif97 as a Framework Protein for the Association of OrganicIhorganic Layers in Nacre. <i>Crystal Growth and Design</i> , <b>2015</b> , 15, 3666-3673	3.5	31
170	Enhanced detoxification of organophosphates using recombinant Escherichia coli with co-expression of organophosphorus hydrolase and bacterial hemoglobin. <i>Biotechnology Letters</i> , <b>2002</b> , 24, 879-883	3	31
169	Suppression of beta-N-acetylglucosaminidase in the N-glycosylation pathway for complex glycoprotein formation in Drosophila S2 cells. <i>Glycobiology</i> , <b>2009</b> , 19, 301-8	5.8	30
168	Coacervation of Interfacial Adhesive Proteins for Initial Mussel Adhesion to a Wet Surface. <i>Small</i> , <b>2018</b> , 14, e1803377	11	30
167	Amperometric proton selective strip-sensors with a microelliptic liquid/gel interface for organophosphate neurotoxins. <i>Electrochemistry Communications</i> , <b>2011</b> , 13, 611-614	5.1	29
166	Bacterial extremo-Larbonic anhydrases from deep-sea hydrothermal vents as potential biocatalysts for CO2 sequestration. <i>Journal of Molecular Catalysis B: Enzymatic</i> , <b>2014</b> , 109, 31-39		28

165	Multifunctional adhesive silk fibroin with blending of RGD-bioconjugated mussel adhesive protein. <i>Biomacromolecules</i> , <b>2014</b> , 15, 1390-8	6.9	28
164	A comparative study on antibody immobilization strategies onto solid surface. <i>Korean Journal of Chemical Engineering</i> , <b>2013</b> , 30, 1934-1938	2.8	28
163	Photocatalytic bacterial inactivation by polyoxometalates. <i>Chemosphere</i> , <b>2008</b> , 72, 174-81	8.4	28
162	Antibacterial efficacy of poly(vinyl alcohol) composite nanofibers embedded with silver-anchored silica nanoparticles. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2018</b> , 106, 1121-1128	3.5	27
161	Fast and Facile Biodegradation of Polystyrene by the Gut Microbial Flora of Larvae. <i>Applied and Environmental Microbiology</i> , <b>2020</b> , 86,	4.8	26
160	Sprayable Adhesive Nanotherapeutics: Mussel-Protein-Based Nanoparticles for Highly Efficient Locoregional Cancer Therapy. <i>ACS Nano</i> , <b>2018</b> , 12, 8909-8919	16.7	26
159	Sandcastle Worm-Inspired Blood-Resistant Bone Graft Binder Using a Sticky Mussel Protein for Augmented In Vivo Bone Regeneration. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 3191-3202	10.1	26
158	Stepwise self-assembly of a protein nanoarray from a nanoimprinted poly(ethylene glycol) hydrogel. <i>Small</i> , <b>2008</b> , 4, 342-8	11	25
157	Antisense downregulation of sigma(32) as a transient metabolic controller in Escherichia coli: effects on yield of active organophosphorus hydrolase. <i>Applied and Environmental Microbiology</i> , <b>2000</b> , 66, 4366-71	4.8	25
156	Human interleukin-2 production in insect (Trichoplusia ni) larvae: effects and partial control of proteolysis. <i>Biotechnology and Bioengineering</i> , <b>1999</b> , 62, 175-82	4.9	25
155	Improved production of biohydrogen in light-powered Escherichia coli by co-expression of proteorhodopsin and heterologous hydrogenase. <i>Microbial Cell Factories</i> , <b>2012</b> , 11, 2	6.4	24
154	Production of biohydrogen by heterologous expression of oxygen-tolerant Hydrogenovibrio marinus [NiFe]-hydrogenase in Escherichia coli. <i>Journal of Biotechnology</i> , <b>2011</b> , 155, 312-9	3.7	24
153	The position of lysine controls the catechol-mediated surface adhesion and cohesion in underwater mussel adhesion. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 563, 168-176	9.3	24
152	Dual-Color-Emitting Carbon Nanodots for Multicolor Bioimaging and Optogenetic Control of Ion Channels. <i>Advanced Science</i> , <b>2017</b> , 4, 1700325	13.6	24
151	Functional interaction analysis of GM1-related carbohydrates and Vibrio cholerae toxins using carbohydrate microarray. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 6884-90	7.8	23
150	Bioengineered mussel glue incorporated with a cell recognition motif as an osteostimulating bone adhesive for titanium implants. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 8102-8114	7.3	22
149	In Vivo Residue-Specific Dopa-Incorporated Engineered Mussel Bioglue with Enhanced Adhesion and Water Resistance. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 13578-13582	3.6	22
148	In vivo post-translational modifications of recombinant mussel adhesive protein in insect cells.  Biotechnology Progress, 2011, 27, 1390-6	2.8	22

147	Disperse distribution of cationic amino acids on hydrophilic surface of helical wheel enhances antimicrobial peptide activity. <i>Biotechnology and Bioengineering</i> , <b>2010</b> , 107, 216-23	4.9	22	
146	GFP-visualized immobilized enzymes: degradation of paraoxon via organophosphorus hydrolase in a packed column. <i>Biotechnology and Bioengineering</i> , <b>2002</b> , 77, 212-8	4.9	22	
145	Biomimetic Surface Engineering of Biomaterials by Using Recombinant Mussel Adhesive Proteins. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1800068	4.6	21	
144	Recent progress in hydrogenase and its biotechnological application for viable hydrogen technology. <i>Korean Journal of Chemical Engineering</i> , <b>2013</b> , 30, 1-10	2.8	21	
143	Amperometric Detection of Parathion and Methyl Parathion with a Microhole-ITIES. <i>Electroanalysis</i> , <b>2011</b> , 23, 2049-2056	3	21	
142	Statistical optimization for immobilized metal affinity purification of secreted human erythropoietin from Drosophila S2 cells. <i>Protein Expression and Purification</i> , <b>2003</b> , 28, 331-9	2	21	
141	Multi-dimensional bioinspired tactics using an engineered mussel protein glue-based nanofiber conduit for accelerated functional nerve regeneration. <i>Acta Biomaterialia</i> , <b>2019</b> , 90, 87-99	10.8	20	
140	Interconnected ruthenium dioxide nanoparticles anchored on graphite oxide: Highly efficient candidate for solvent-free oxidative synthesis of imines. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2017</b> , 46, 279-288	6.3	20	
139	Expression of EII,4-galactosyltransferase and suppression of EN-acetylglucosaminidase to aid synthesis of complex N-glycans in insect Drosophila S2 cells. <i>Journal of Biotechnology</i> , <b>2011</b> , 153, 145-5	2 <sup>3.7</sup>	20	
138	Facile and statistical optimization of transfection conditions for secretion of foreign proteins from insect Drosophila S2 cells using green fluorescent protein reporter. <i>Biotechnology Progress</i> , <b>2002</b> , 18, 1187-94	2.8	20	
137	Marine-derived natural polymer-based bioprinting ink for biocompatible, durable, and controllable 3D constructs. <i>Biofabrication</i> , <b>2019</b> , 11, 035001	10.5	19	
136	Halotolerant carbonic anhydrase with unusual N-terminal extension from marine Hydrogenovibrio marinus as novel biocatalyst for carbon sequestration under high-salt environments. <i>Journal of CO2 Utilization</i> , <b>2018</b> , 26, 415-424	7.6	19	
135	Engineered whole-cell biocatalyst-based detoxification and detection of neurotoxic organophosphate compounds. <i>Biotechnology Advances</i> , <b>2014</b> , 32, 652-62	17.8	19	
134	Production of a novel silk-like protein from sea anemone and fabrication of wet-spun and electrospun marine-derived silk fibers. <i>NPG Asia Materials</i> , <b>2013</b> , 5, e50-e50	10.3	19	
133	A functional carbohydrate chip platform for analysis of carbohydrate-protein interaction. <i>Nanotechnology</i> , <b>2010</b> , 21, 215101	3.4	19	
132	Purification of human interleukin-2 fusion protein produced in insect larvae is facilitated by fusion with green fluorescent protein and metal affinity ligand. <i>Biotechnology Progress</i> , <b>1999</b> , 15, 283-6	2.8	19	
131	Enhancement of heterologous protein expression in Escherichia coli by co-expression of nonspecific DNA-binding stress protein, Dps. <i>Enzyme and Microbial Technology</i> , <b>2003</b> , 33, 460-465	3.8	18	
130	Specific multiplex analysis of pathogens using a direct 16S rRNA hybridization in microarray system. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 4873-9	7.8	17	

129	Production of fusion mussel adhesive fp-353 in Escherichia coli. <i>Biotechnology Progress</i> , <b>2008</b> , 24, 1272	<b>-7</b> 2.8	17
128	Expression of functional human transferrin in stably transfected Drosophila S2 cells. <i>Biotechnology Progress</i> , <b>2004</b> , 20, 1192-7	2.8	17
127	Mussel adhesive protein as an environmentally-friendly harmless wood furniture adhesive. <i>International Journal of Adhesion and Adhesives</i> , <b>2016</b> , 70, 260-264	3.4	17
126	Recent advances in the development of nature-derived photocrosslinkable biomaterials for 3D printing in tissue engineering. <i>Biomaterials Research</i> , <b>2019</b> , 23, 18	16.8	17
125	Facile surface functionalization with glycosaminoglycans by direct coating with mussel adhesive protein. <i>Tissue Engineering - Part C: Methods</i> , <b>2012</b> , 18, 71-9	2.9	16
124	Comparison of cellular stress levels and green-fluorescent-protein expression in several Escherichia coli strains. <i>Biotechnology and Applied Biochemistry</i> , <b>2003</b> , 37, 103-7	2.8	16
123	Quantitative monitoring for secreted production of human interleukin-2 in stable insect Drosophila S2 cells using a green fluorescent protein fusion partner. <i>Biotechnology Progress</i> , <b>2003</b> , 19, 152-7	2.8	16
122	Body temperature-activated protein-based injectable adhesive hydrogel incorporated with decellularized adipose extracellular matrix for tissue-specific regenerative stem cell therapy. <i>Acta Biomaterialia</i> , <b>2020</b> , 114, 244-255	10.8	16
121	Recent developments and applications of bioinspired silicification. <i>Korean Journal of Chemical Engineering</i> , <b>2016</b> , 33, 1125-1133	2.8	15
120	Structural evaluation of GM1-related carbohydrate-cholera toxin interactions through surface plasmon resonance kinetic analysis. <i>Analyst, The</i> , <b>2013</b> , 138, 6924-9	5	15
119	A Mussel Adhesive Protein Fused with the BC Domain of Protein A is a Functional Linker Material that Efficiently Immobilizes Antibodies onto Diverse Surfaces. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 4101-4108	15.6	15
118	Mussel-inspired enzyme immobilization and dual real-time compensation algorithms for durable and accurate continuous glucose monitoring. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 143, 111622	11.8	14
117	Stem cell-loaded adhesive immiscible liquid for regeneration of myocardial infarction. <i>Journal of Controlled Release</i> , <b>2020</b> , 321, 602-615	11.7	14
116	Mussel-Inspired Protein Nanoparticles Containing Iron(III) <b>D</b> OPA Complexes for pH-Responsive Drug Delivery. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 7426-7430	3.6	14
115	Coexpression of molecular chaperone enhances activity and export of organophosphorus hydrolase in Escherichia coli. <i>Biotechnology Progress</i> , <b>2012</b> , 28, 925-30	2.8	14
114	Recombinant mussel adhesive protein as a gene delivery material. <i>Biotechnology and Bioengineering</i> , <b>2009</b> , 102, 616-23	4.9	14
113	Enhancement of mussel adhesive protein production in Escherichia coli by co-expression of bacterial hemoglobin. <i>Biotechnology Progress</i> , <b>2008</b> , 24, 663-6	2.8	14
112	Recombinant baculovirus-based multiple protein expression platform for Drosophila S2 cell culture. <i>Journal of Biotechnology</i> , <b>2008</b> , 133, 116-22	3.7	14

## (2010-2008)

111	Efficient cell surface display of organophosphorous hydrolase using N-terminal domain of ice nucleation protein in Escherichia coli. <i>Korean Journal of Chemical Engineering</i> , <b>2008</b> , 25, 804-807	2.8	14	
110	Baculoviral polyhedrin as a novel fusion partner for formation of inclusion body in Escherichia coli. <i>Biotechnology and Bioengineering</i> , <b>2003</b> , 84, 467-73	4.9	14	
109	Engineered mussel bioglue as a functional osteoinductive binder for grafting of bone substitute particles to accelerate in vivo bone regeneration. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 546-555	7.3	13	
108	Aquatic proteins with repetitive motifs provide insights to bioengineering of novel biomaterials. <i>Biotechnology Journal</i> , <b>2014</b> , 9, 1493-502	5.6	13	
107	Investigations into the ability of the peptide, HAL18, to interact with bacterial membranes. <i>European Biophysics Journal</i> , <b>2008</b> , 38, 37-43	1.9	13	
106	Quantitative oligonucleotide microarray data analysis with an artificial standard probe strategy. <i>Biosensors and Bioelectronics</i> , <b>2008</b> , 23, 1738-44	11.8	13	
105	Observation and modeling of induction effect on human transferrin production from stably transfected Drosophila S2 cell culture. <i>Enzyme and Microbial Technology</i> , <b>2006</b> , 39, 208-214	3.8	13	
104	Comparative production of human interleukin-2 fused with green fluorescent protein in several recombinant expression systems. <i>Biochemical Engineering Journal</i> , <b>2005</b> , 24, 225-233	4.2	13	
103	Engineering the genetic components of a whole-cell catalyst for improved enzymatic CO capture and utilization. <i>Biotechnology and Bioengineering</i> , <b>2020</b> , 117, 39-48	4.9	13	
102	Prolonged cell persistence with enhanced multipotency and rapid angiogenesis of hypoxia pre-conditioned stem cells encapsulated in marine-inspired adhesive and immiscible liquid micro-droplets. <i>Acta Biomaterialia</i> , <b>2019</b> , 86, 257-268	10.8	13	
101	Optical detection of paraoxon using single-walled carbon nanotube films with attached organophosphorus hydrolase-expressed Escherichia coli. <i>Sensors</i> , <b>2015</b> , 15, 12513-25	3.8	12	
100	High-throughput and facile assay of antimicrobial peptides using pH-controlled fluorescence resonance energy transfer. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2006</b> , 50, 3330-5	5.9	12	
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97	3D cellulose nanofiber scaffold with homogeneous cell population and long-term proliferation. <i>Cellulose</i> , <b>2018</b> , 25, 7299-7314	5.5	12	
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95	Polymerase chain reaction-based detection of total and specific Vibrio species. <i>Applied Biochemistry and Biotechnology</i> , <b>2010</b> , 162, 1187-94	3.2	11	
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91	Activation of formate hydrogen-lyase via expression of uptake [NiFe]-hydrogenase in Escherichia coli BL21(DE3). <i>Microbial Cell Factories</i> , <b>2015</b> , 14, 151	6.4	10
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88	Expression of glucoamylase gene usingSUC2 promoter inSaccharomyces cerevisiae. <i>Biotechnology Letters</i> , <b>1992</b> , 14, 747-752	3	10
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79	Escherichia coli-based expression of functional novel DNA-binding histone H1 from Carassius auratus. <i>Enzyme and Microbial Technology</i> , <b>2007</b> , 40, 1484-1490	3.8	8
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77	Biological removal of phosphate at low concentrations using recombinant Escherichia coli expressing phosphate-binding protein in periplasmic space. <i>Applied Biochemistry and Biotechnology</i> , <b>2013</b> , 171, 1170-7	3.2	7
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