Tae-Il Son

List of Publications by Citations

56 papers	729 citations	14 h-index	23 g-index
57 ext. papers	787 ext. citations	4.2 avg, IF	3.44 L-index

#	Paper	IF	Citations
56	Preparation and reactions of (.eta.-allyl)palladium and -platinum carbonate complexes. *Organometallics*, **1992**, 11, 171-176	3.8	71
55	Visible light-induced crosslinkable gelatin. *Acta Biomaterialia*, **2010**, 6, 4005-10	10.8	60
54	Polyelectrolyte complex hydrogel composed of chitosan and poly(γ-glutamic acid) for biological application: Preparation, physical properties, and cytocompatibility. *Journal of Applied Polymer Science*, **2007**, 103, 386-394	2.9	48
53	Immobilization of epidermal growth factor on titanium and stainless steel surfaces via dopamine treatment. *Materials Science and Engineering C*, **2012**, 32, 2552-2561	8.3	40
52	Palladium-Catalyzed Double-Carbonylation of Alkenyl Halides with Secondary Amines To Give α-Keto Amides. *Bulletin of the Chemical Society of Japan*, **1988**, 61, 1251-1258	5.1	36
51	Preparation of a visible light-reactive low molecular-O-carboxymethyl chitosan (LM-O-CMCS) derivative and applicability as an anti-adhesion agent. *Macromolecular Research*, **2011**, 19, 921-927	1.9	30
50	Immobilization of bone morphogenetic protein on DOPA- or dopamine-treated titanium surfaces to enhance osseointegration. *BioMed Research International*, **2013**, 2013, 265980	3	25
49	Preparation of Furfuryl-fish gelatin (F-f.gel) cured using visible-light and its application as an anti-adhesion agent. *Macromolecular Research*, **2012**, 20, 842-846	1.9	22
48	Prevention of surgical adhesions with barriers of carboxymethylcellulose and poly(ethylene glycol) hydrogels synthesized by irradiation. *Journal of Applied Polymer Science*, **2005**, 96, 1138-1145	2.9	21
47	Preparation of photocured azidophenyl-fish gelatin and its capturing of human epidermal growth factor on titanium plate. *Journal of Applied Polymer Science*, **2013**, 127, 154-160	2.9	20
46	An epidermal growth factor derivative with binding affinity for hydroxyapatite and titanium surfaces. *Biomaterials*, **2013**, 34, 9747-53	15.6	20
45	Photo-reactive natural polymer derivatives for medical application. *Journal of Industrial and Engineering Chemistry*, **2017**, 54, 1-13	6.3	18
44	Regeneration effect of visible light-curing furfuryl alginate compound by release of epidermal growth factor for wound healing application. *Journal of Applied Polymer Science*, **2014**, 131, n/a-n/a	2.9	14
43	Visible light-induced photocurable (forming a film) low molecular weight chitosan derivatives for biomedical applications: Synthesis, characterization and in vitro biocompatibility. *Journal of Industrial and Engineering Chemistry*, **2012**, 18, 1258-1262	6.3	14
42	Thermally crosslinked anionic hydrogels composed of poly(vinyl alcohol) and poly(γ-glutamic acid): Preparation, characterization, and drug permeation behavior. *Journal of Applied Polymer Science*, **2008**, 109, 3768-3775	2.9	14
41	Fabrication and characteristics of anti-inflammatory magnesium hydroxide incorporated PLGA scaffolds formed with various porogen materials. *Macromolecular Research*, **2014**, 22, 210-218	1.9	13
40	Reinforcement of pH-responsive γ-poly(glutamic acid)/chitosan hydrogel for orally administrable colon-targeted drug delivery. *Journal of Applied Polymer Science*, **2013**, 127, 832-836	2.9	13

39	Photocurable O-carboxymethyl chitosan derivatives for biomedical applications: Synthesis, in vitro biocompatibility, and their wound healing effects. *Macromolecular Research*, **2012**, 20, 1144-1149	1.9	13
38	Synthesis of O-carboxylated low molecular chitosan with azido phenyl group: Its application for adhesion prevention. *Macromolecular Research*, **2010**, 18, 1001-1007	1.9	13
37	Wound healing effect of visible light-curable chitosan with encapsulated EGF. *Macromolecular Research*, **2016**, 24, 336-341	1.9	13
36	Preparation of UV-curable gelatin derivatives for drug immobilization on polyurethane foam: Development of wound dressing foam. *Macromolecular Research*, **2015**, 23, 994-1003	1.9	12
35	Visible and UV-curable chitosan derivatives for immobilization of biomolecules. *International Journal of Biological Macromolecules*, **2017**, 104, 1611-1619	7.9	11
34	BMP-2 immobilization by phosphonated UV-curable low-molecular-weight chitosan derivative on the surface of titanium. *Journal of Industrial and Engineering Chemistry*, **2016**, 34, 33-40	6.3	11
33	Biocompatible, drug-loaded anti-adhesion barrier using visible-light curable furfuryl gelatin derivative. *International Journal of Biological Macromolecules*, **2018**, 120, 915-920	7.9	11
32	Coating of titanium plate by photocurable azidophenyl chitosan derivative for application to implants. *Journal of Applied Polymer Science*, **2013**, 128, 4322-4326	2.9	11
31	Preparation and in vivo evaluation of photo-cured O-carboxymethyl chitosan micro-particle for controlled drug delivery. *Macromolecular Research*, **2014**, 22, 541-548	1.9	10
30	Potent anti-adhesion agent using a drug-eluting visible-light curable hyaluronic acid derivative. *Journal of Industrial and Engineering Chemistry*, **2019**, 70, 204-210	6.3	10
29	Preparation of photoreactive azidophenyl hyaluronic acid derivative: Protein immobilization for medical applications. *Macromolecular Research*, **2013**, 21, 216-220	1.9	9
28	PCL microspheres containing magnesium hydroxide for dermal filler with enhanced physicochemical and biological performances. *Journal of Industrial and Engineering Chemistry*, **2019**, 80, 854-861	6.3	8
27	The immobilization of bone morphogenetic protein-2 via photo curable azidophenyl hyaluronic acid on a titanium surface and providing effect for cell differentiation. *Macromolecular Research*, **2014**, 22, 173-178	1.9	8
26	Enhancement of fibroblastic proliferation from photoreactive starch with immobilized epidermal growth factor. *Journal of Applied Polymer Science*, **2013**, 129, 2161-2170	2.9	8
25	Synthesis of visible light-induced cross-linkable chitosan as an anti-adhesive agent. *Macromolecular Research*, **2011**, 19, 216-220	1.9	8
24	Stabilization of epidermal growth factor on thermal and proteolytic degradation by conjugating with low molecular weight chitosan. *Journal of Applied Polymer Science*, **2006**, 102, 5072-5082	2.9	8
23	Enhancement effect of cell adhesion on titanium surface using phosphonated low-molecular-weight chitosan derivative. *Macromolecular Research*, **2016**, 24, 99-103	1.9	7
22	Preparation of phosphonated gelatin-coated titanium containing rhBMP-2 by UV irradiation for improved osteoinduction and function. *Journal of Industrial and Engineering Chemistry*, **2016**, 36, 66-73	6.3	7

21	Photo-immobilization of bone morphogenetic protein-2 using azidophenyl gelatin on a collagen sheet enhances osteogenesis in a rat calvarial defect model. *Journal of Industrial and Engineering Chemistry*, **2016**, 40, 177-184	6.3	7
20	Preparation of drug-immobilized anti-adhesion agent using visible light-curable alginate derivative containing furfuryl group. *International Journal of Biological Macromolecules*, **2019**, 121, 301-308	7.9	7
19	Fabrication and controlled release of electrosprayed ReoPro-loaded metal surface for vascular stent. *Macromolecular Research*, **2011**, 19, 501-506	1.9	6
18	Application of visible light curable furfuryl-low molecular chitosan derivative as an anti-adhesion agent. *Journal of Industrial and Engineering Chemistry*, **2018**, 66, 438-445	6.3	6
17	Phosphorylated gelatin to enhance cell adhesion to titanium. *Polymer International*, **2014**, 63, 1616-1619	3.3	5
16	Preparation of UV-curable alginate derivatives for drug immobilization on dressing foam. *Journal of Industrial and Engineering Chemistry*, **2017**, 54, 350-358	6.3	5
15	Anticancer effect of lipids partially purified from Pacific oyster, Crassostrea gigas on PC3 cells. *Food Science and Biotechnology*, **2010**, 19, 213-217	3	5
14	Anticancer effect of intracellular-delivered paclitaxel using novel pH-sensitive LMWSC-PCL di-block copolymer micelles. *Journal of Industrial and Engineering Chemistry*, **2019**, 70, 136-144	6.3	4
13	Preparation of injectable forms of immobilized protein drugs using UV-curable gelatin derivatives. *Journal of Industrial and Engineering Chemistry*, **2019**, 80, 877-885	6.3	3
12	Injectable photoreactive azidophenyl hyaluronic acid hydrogels for tissue augmentation. *Macromolecular Research*, **2014**, 22, 494-499	1.9	3
11	Development of phosphonated alginate derivatives as coating material on titanium surface for medical application. *Macromolecular Research*, **2017**, 25, 1192-1198	1.9	3
10	Facile Surface Modification of Nitinol with Dopamine-Conjugated Hyaluronic Acid for Improving Blood Compatibility. *Journal of Biomaterials and Tissue Engineering*, **2016**, 6, 780-787	0.3	3
9	Surface-Modifying Effect of Zwitterionic Polyurethane Oligomers Complexed with Metal Ions on Blood Compatibility. *Tissue Engineering and Regenerative Medicine*, **2021**, 1	4.5	3
8	Controllable mouse epidermal growth factor (mEGF) release by photo-encapsulation using azidophenyl chitosan derivative and its wound healing effect. *Macromolecular Research*, **2016**, 24, 862-867	1.9	3
7	Osteogenic effectiveness of photo-immobilized bone morphogenetic protein-2 using different azidophenyl-natural polymer carriers in rat calvarial defect model. *International Journal of Biological Macromolecules*, **2019**, 121, 333-341	7.9	3
6	Preparation of azidophenyl-low molecular chitosan derivative micro particles for enhance drug delivery. *International Journal of Biological Macromolecules*, **2019**, 133, 875-880	7.9	2
5	Preparation of photo-reactive azidophenyl chitosan derivative for immobilization of growth factors. *Journal of Applied Polymer Science*, **2010**, 117, n/a-n/a	2.9	2
4	Immobilization effect of bone morphogenetic protein-2 on collagen membrane via photoreactive gelatin derivatives: Biocompatibility and preservability of osteoinductive activity. *Macromolecular Research*, **2015**, 23, 525-530	1.9	1

3	Design and Synthesis of Photoreactive Polymers for Biomedical Applications **2013**, 253-278		1
2	Antiadhesive Property of Photoreactive Azidophenyl Low-Molecular-Weight Chitosan in Rabbit Laminotomy Model. *Journal of Chemistry*, **2013**, 2013, 1-8	2.3	0
1	Surface Modification Using Spiropyran-Derivative and Its Analysis of Surface Potential Induced by UV. *Journal of the Korean Chemical Society*, **2011**, 55, 478-485		