

Farzad Seidi

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122
papers

2,376
citations

25
h-index

43
g-index

134
ext. papers

3,577
ext. citations

7.1
avg. IF

5.94
L-index

#	Paper	IF	Citations
122	Designing Smart Polymer Conjugates for Controlled Release of Payloads. <i>Chemical Reviews</i> , 2018 , 118, 3965-4036	68.1	168
121	Multi-Layer Functionalized Poly(Ionic Liquid) Coated Magnetic Nanoparticles: Highly Recoverable and Magnetically Separable Brønsted Acid Catalyst. <i>ACS Catalysis</i> , 2012 , 2, 1259-1266	13.1	135
120	Horseradish peroxidase as a catalyst for atom transfer radical polymerization. <i>Macromolecular Rapid Communications</i> , 2011 , 32, 1710-5	4.8	110
119	Polymers Based on Cyclic Carbonates as Trait d'Union Between Polymer Chemistry and Sustainable CO Utilization. <i>ChemSusChem</i> , 2019 , 12, 724-754	8.3	104
118	Natural Polymer-Based Antimicrobial Hydrogels without Synthetic Antibiotics as Wound Dressings. <i>Biomacromolecules</i> , 2020 , 21, 2983-3006	6.9	83
117	Hemoglobin and red blood cells catalyze atom transfer radical polymerization. <i>Biomacromolecules</i> , 2013 , 14, 2703-12	6.9	75
116	Synthesis and swelling behavior of acrylatedstarch-g-poly (acrylic acid) and acrylatedstarch-g-poly (acrylamide) hydrogels. <i>Carbohydrate Polymers</i> , 2010 , 79, 933-940	10.3	73
115	Efficient CO ₂ -removal using novel mixed-matrix membranes with modified TiO ₂ nanoparticles. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 4011-4025	13	72
114	Saccharides, oligosaccharides, and polysaccharides nanoparticles for biomedical applications. <i>Journal of Controlled Release</i> , 2018 , 284, 188-212	11.7	69
113	Transparent nanocomposite coatings based on epoxy and layered double hydroxide: Nonisothermal cure kinetics and viscoelastic behavior assessments. <i>Progress in Organic Coatings</i> , 2017 , 113, 126-135	4.8	69
112	Metal-Organic Framework (MOF)/Epoxy Coatings: A Review. <i>Materials</i> , 2020 , 13,	3.5	50
111	Agarose-Based Biomaterials: Opportunities and Challenges in Cartilage Tissue Engineering. <i>Polymers</i> , 2020 , 12,	4.5	50
110	Agarose-based biomaterials for advanced drug delivery. <i>Journal of Controlled Release</i> , 2020 , 326, 523-543	11.7	44
109	Ethylene scavengers for the preservation of fruits and vegetables: A review. <i>Food Chemistry</i> , 2021 , 337, 127750	8.5	43
108	Novel chitosan-based nanobiohybrid membranes for wound dressing applications. <i>RSC Advances</i> , 2016 , 6, 7701-7711	3.7	39
107	Synthesis of hybrid materials using graft copolymerization on non-cellulosic polysaccharides via homogenous ATRP. <i>Progress in Polymer Science</i> , 2018 , 76, 1-39	29.6	39
106	Synthesis and investigation of swelling behavior of new agar based superabsorbent hydrogel as a candidate for agrochemical delivery. <i>Journal of Polymer Research</i> , 2009 , 16, 655-665	2.7	38

105	pH-Sensitive Polymer Conjugates for Anticorrosion and Corrosion Sensing. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 20876-20883	9.5	36
104	Antimicrobial/Biocompatible Hydrogels Dual-Reinforced by Cellulose as Ultrastretchable and Rapid Self-Healing Wound Dressing. <i>Biomacromolecules</i> , 2021 , 22, 1654-1663	6.9	35
103	Synthesis and Application of Fe ₃ O ₄ @SiO ₂ @Carboxyl-Terminated PAMAM Dendrimer Nanocomposite for Heavy Metal Removal. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2018 , 28, 2835-2843	3.2	33
102	Emulsion Techniques for the Production of Pharmacological Nanoparticles. <i>Macromolecular Bioscience</i> , 2019 , 19, e1900063	5.5	32
101	Synthesis and application of a novel Amino-Starch derivative as a new polymeric additive for fixed facilitated transport of carbon dioxide through an asymmetric polyethersulfone (PES) membrane. <i>International Journal of Greenhouse Gas Control</i> , 2013 , 19, 126-137	4.2	32
100	N-doped porous carbon nanofibers fabricated by bacterial cellulose-directed templating growth of MOF crystals for efficient oxygen reduction reaction and sodium-ion storage. <i>Carbon</i> , 2020 , 168, 12-21	10.4	31
99	Fixed facilitated transport of CO ₂ through integrally-skinned asymmetric polyethersulfone membrane using a novel synthesized Poly (acrylonitrile-co-N, N-Dimethylaminopropyl acrylamide). <i>Chemical Engineering Journal</i> , 2014 , 236, 263-273	14.7	27
98	Functional materials generated by allying cyclodextrin-based supramolecular chemistry with living polymerization. <i>Polymer Chemistry</i> , 2019 , 10, 3674-3711	4.9	26
97	Three in one: Cyclodextrin, nanohydroxyapatite, and a nitrogen-rich polymer integrated into a new flame retardant for poly (lactic acid). <i>Fire and Materials</i> , 2018 , 42, 593-602	1.8	25
96	Chitosan-based blends for biomedical applications. <i>International Journal of Biological Macromolecules</i> , 2021 , 183, 1818-1850	7.9	25
95	Facilitated transport of CO ₂ through novel imidazole-containing chitosan derivative/PES membranes. <i>RSC Advances</i> , 2015 , 5, 67299-67307	3.7	24
94	A New Pentiptycene-Based Dianhydride and Its High-Free-Volume Polymer for Carbon Dioxide Removal. <i>ChemSusChem</i> , 2018 , 11, 472-482	8.3	24
93	Synthesis and Investigation of Swelling Behavior of Grafted Alginate/Alumina Superabsorbent Composite. <i>Starch/Staerke</i> , 2008 , 60, 457-466	2.3	23
92	Super-crosslinked ionic liquid-intercalated montmorillonite/epoxy nanocomposites: Cure kinetics, viscoelastic behavior and thermal degradation mechanism. <i>Polymer Engineering and Science</i> , 2020 , 60, 1940-1957	2.3	20
91	Both Tough and Soft Double Network Hydrogel Nanocomposite Based on O-Carboxymethyl Chitosan/Poly(vinyl alcohol) and Graphene Oxide: A Promising Alternative for Tissue Engineering. <i>Polymer Engineering and Science</i> , 2020 , 60, 889-899	2.3	20
90	Next generation polymers of intrinsic microporosity with tunable moieties for ultrahigh permeation and precise molecular CO ₂ separation. <i>Progress in Energy and Combustion Science</i> , 2021 , 84, 100903	33.6	20
89	Versatile functionalization of polymer nanoparticles with carbonate groups via hydroxyurethane linkages. <i>Polymer Chemistry</i> , 2019 , 10, 3571-3584	4.9	18
88	Synthesis of soluble N-functionalized polysaccharide derivatives using phenyl carbonate precursor and their application as catalysts. <i>Starch/Staerke</i> , 2011 , 63, 780-791	2.3	18

87	Polycyclodextrins: Synthesis, functionalization, and applications. <i>Carbohydrate Polymers</i> , 2020 , 242, 1162-1173	7.3	18
86	Self-healing Polyol/Borax Hydrogels: Fabrications, Properties and Applications. <i>Chemical Record</i> , 2020 , 20, 1142-1162	6.6	18
85	Synthesis and characterization of a new amino chitosan derivative for facilitated transport of CO ₂ through thin film composite membranes. <i>Macromolecular Research</i> , 2016 , 24, 1-8	1.9	17
84	Grafted CMC/silica gel superabsorbent composite: Synthesis and investigation of swelling behavior in various media. <i>Journal of Applied Polymer Science</i> , 2008 , 108, 3281-3290	2.9	17
83	Hemiaminal ether linkages provide a selective release of payloads from polymer conjugates. <i>Chemical Communications</i> , 2018 , 54, 13730-13733	5.8	17
82	Biomedical application of hyperbranched polymers: Recent Advances and challenges. <i>TrAC - Trends in Analytical Chemistry</i> , 2021 , 142, 116308	14.6	17
81	Injectable Cell-Laden Hydrogels for Tissue Engineering: Recent Advances and Future Opportunities. <i>Tissue Engineering - Part A</i> , 2021 , 27, 821-843	3.9	16
80	Functionalized Masks: Powerful Materials against COVID-19 and Future Pandemics. <i>Small</i> , 2021 , 17, e2102453	16	16
79	Designing syntheses of cellulose and starch derivatives with basic or cationic N-functions: part II cellulose derivatives. <i>Polymers for Advanced Technologies</i> , 2016 , 27, 5-32	3.2	16
78	Redox-Responsive Polymer with Self-Immolative Linkers for the Release of Payloads. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1800071	4.8	16
77	Controlling release kinetics of pH-responsive polymer nanoparticles. <i>Polymer Chemistry</i> , 2020 , 11, 1752-1762	16	15
76	Recent advances on the bacterial cellulose-derived carbon aerogels. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 818-828	7.1	14
75	Magnetic removal of crystal violet from aqueous solutions using polysaccharide-based magnetic nanocomposite hydrogels. <i>Polymer International</i> , 2012 , 62, n/a-n/a	3.3	13
74	Laccase immobilization onto natural polysaccharides for biosensing and biodegradation. <i>Carbohydrate Polymers</i> , 2021 , 262, 117963	10.3	13
73	Imidazole-functionalized nitrogen-rich Mg-Al-CO ₃ layered double hydroxide for developing highly crosslinkable epoxy with high thermal and mechanical properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 611, 125826	5.1	13
72	Preparation of acrylated agarose-based hydrogels and investigation of their application as fertilizing systems. <i>Journal of Applied Polymer Science</i> , 2011 , 122, 2424-2432	2.9	12
71	Flame Retardant Polypropylenes: A Review. <i>Polymers</i> , 2020 , 12,	4.5	12
70	Fighting corrosion with stimuli-responsive polymer conjugates. <i>Chemical Communications</i> , 2020 , 56, 11931-11940	3.1	11

69	Core-shell heterostructured nanofibers consisting of Fe7S8 nanoparticles embedded into S-doped carbon nanoshells for superior electromagnetic wave absorption. <i>Chemical Engineering Journal</i> , 2021 , 423, 130307	14.7	12
68	Programming pH-responsive release of two payloads from dextran-based nanocapsules. <i>Carbohydrate Polymers</i> , 2019 , 217, 217-223	10.3	11
67	Physical aging of polyetherimide membranes. <i>Journal of Natural Gas Science and Engineering</i> , 2015 , 27, 651-660	4.6	11
66	Radical polymerization as a versatile tool for surface grafting of thin hydrogel films. <i>Polymer Chemistry</i> , 2020 , 11, 4355-4381	4.9	11
65	Recent advances in polymerizations in dispersed media. <i>Advances in Colloid and Interface Science</i> , 2018 , 260, 24-31	14.3	11
64	Layer-by-Layer Assembly for Surface Tethering of Thin-Hydrogel Films: Design Strategies and Applications. <i>Chemical Record</i> , 2020 , 20, 857-881	6.6	10
63	Nonisothermal Cure Kinetics of Epoxy/Polyvinylpyrrolidone Functionalized Superparamagnetic Nano-Fe3O4 Composites: Effect of Zn and Mn Doping. <i>Journal of Composites Science</i> , 2020 , 4, 55	3	9
62	Introduction of a novel amino-agarose (AAG) derivative as a fixed facilitated transport carrier to prepare newly asymmetric PES/AAG membranes for CO2 removal 2015 , 5, 701-713		9
61	Synthesis of a PEG-PNIPAm thermosensitive dendritic copolymer and investigation of its self-association. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2015 , 33, 192-202	3.5	9
60	Anti-bacterial activity of gold nanocomposites as a new nanomaterial weapon to combat photogenic agents: recent advances and challenges.. <i>RSC Advances</i> , 2021 , 11, 34688-34698	3.7	9
59	Polymer conjugates for dual functions of reporting and hindering corrosion. <i>Polymer</i> , 2020 , 194, 1223463.9		9
58	Architecture of a multi-channel and easy-to-make microfluidic paper-based colorimetric device (PCD) towards selective and sensitive recognition of uric acid by AuNPs: an innovative portable tool for the rapid and low-cost identification of clinically relevant biomolecules.. <i>RSC Advances</i> , 2021 , 11, 27202-27208	3.7	9
57	Oligo(thioether-ester)s Blocks in Polyurethanes for Slowly Releasing Active Payloads. <i>Macromolecular Chemistry and Physics</i> , 2018 , 219, 1800392	2.6	9
56	Antiviral/antibacterial biodegradable cellulose nonwovens as environmentally friendly and bioprotective materials with potential to minimize microplastic pollution. <i>Journal of Hazardous Materials</i> , 2022 , 424, 127391	12.8	9
55	Acid-cleavable polymers for simultaneous fast and slow release of functional molecules. <i>Polymer Chemistry</i> , 2020 , 11, 4723-4728	4.9	8
54	ATRPases: Using Nature's Catalysts in Atom Transfer Radical Polymerizations. <i>ACS Symposium Series</i> , 2012 , 171-181	0.4	8
53	Synthesis of water soluble quaternary chitosan derivative via protection-deprotection strategy and investigation of its antibacterial effect. <i>Polymer Science - Series B</i> , 2016 , 58, 341-346	0.8	8
52	Crystalline polysaccharides: A review. <i>Carbohydrate Polymers</i> , 2022 , 275, 118624	10.3	8

51	Preparation and characterization of a novel water soluble amino chitosan (amino-CS) derivative for facilitated transport of CO ₂ . <i>Polymer Science - Series B</i> , 2017 , 59, 173-182	0.8	7
50	Magnetic nanoparticles double wrapped into cross-linked salep/PEGylated carboxymethyl cellulose; a biocompatible nanocarrier for pH-triggered release of doxorubicin. <i>International Journal of Biological Macromolecules</i> , 2020 , 158, 994-1006	7.9	7
49	Fluorescent paper-based analytical devices for ultra-sensitive dual-type RNA detections and accurate gastric cancer screening. <i>Biosensors and Bioelectronics</i> , 2022 , 197, 113781	11.8	7
48	Prodrug Polymeric Nanoconjugates Encapsulating Gold Nanoparticles for Enhanced X-Ray Radiation Therapy in Breast Cancer. <i>Advanced Healthcare Materials</i> , 2021 , e2102321	10.1	7
47	Smartphone based immunosensors as next generation of healthcare tools: Technical and analytical overview towards improvement of personalized medicine. <i>TrAC - Trends in Analytical Chemistry</i> , 2021 , 145, 116455	14.6	7
46	A microfluidic paper-based colorimetric device for the visual detection of uric acid in human urine samples. <i>Analytical Methods</i> , 2021 , 13, 3909-3921	3.2	7
45	Elucidating the impact of enzymatic modifications on the structure, properties, and applications of cellulose, chitosan, starch and their derivatives: a review. <i>Materials Today Chemistry</i> , 2022 , 24, 100780	6.2	7
44	Use of a novel initiator for synthesis of amino-end functionalized polystyrene (NH ₂ -PS) by atom transfer radical polymerization. <i>Journal of Polymer Research</i> , 2012 , 19, 1	2.7	6
43	Synthesis of Novel Water-Soluble Aminodeoxychitin Derivatives. <i>Starch/Staerke</i> , 2007 , 59, 557-562	2.3	6
42	A complete description on effect of β-cyclodextrin-ester as a bio-based additive for preparation of safe PVC: From synthesis to computational study. <i>Materials Today Communications</i> , 2020 , 22, 100736	2.5	6
41	Preparation and characterization of an amino-cellulose (AC) derivative for development of thin-film composite membrane for CO ₂ /CH ₄ separation. <i>Starch/Staerke</i> , 2016 , 68, 651-661	2.3	6
40	Enzymatic recognition of hydrogen peroxide (H ₂ O ₂) in human plasma samples using HRP immobilized on the surface of poly(arginine-toluidine blue)- Fe ₃ O ₄ nanoparticles modified polydopamine; A novel biosensor. <i>Journal of Molecular Recognition</i> , 2021 , 34, e2928	2.6	6
39	Application of Cys A@AuNPs supported amino acids towards rapid and selective identification of Hg(II) and Cu(II) ions in aqueous solution: An innovative microfluidic paper-based (μPADs) colorimetric sensing platform. <i>Journal of Molecular Liquids</i> , 2021 , 338, 117020	6	6
38	ATRP grafting of poly(N,N-dimethylamino-2-ethyl methacrylate) onto the fatty-acid-modified agarose backbone via the grafting-from technique. <i>Starch/Staerke</i> , 2016 , 68, 644-650	2.3	5
37	PEGylation of shellac-based nanocarriers for enhanced colloidal stability. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 183, 110434	6	5
36	ATRPases: enzymes as catalysts for atom transfer radical polymerization. <i>Chimia</i> , 2012 , 66, 66	1.3	5
35	Naturally Occurring Exopolysaccharide Nanoparticles: Formation Process and Their Application in Glutathione Detection. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 19756-19767	9.5	5
34	Poly (amino acids) towards sensing: Recent progress and challenges. <i>TrAC - Trends in Analytical Chemistry</i> , 2021 , 140, 116279	14.6	5

33	Trifluralin recognition using touch-based fingertip: Application of wearable glove-based sensor toward environmental pollution and human health control. <i>Journal of Molecular Recognition</i> , 2021 , 34, e2927	2.6	5
32	Polymers with Hemiaminal Ether Linkages for pH-Responsive Antibacterial Materials.. <i>ACS Macro Letters</i> , 2021 , 10, 365-369	6.6	5
31	Encapsulation of an anticancer drug Isatin inside a host nano-vehicle SWCNT: a molecular dynamics simulation. <i>Scientific Reports</i> , 2021 , 11, 18753	4.9	5
30	The FeO@apple seed starch core-shell structure decorated In(III): A green biocatalyst for the one-pot multicomponent synthesis of pyrazole-fused isocoumarins derivatives under solvent-free conditions. <i>International Journal of Biological Macromolecules</i> , 2021 , 190, 61-71	7.9	5
29	Encoding materials for programming a temporal sequence of actions. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 1433-1448	7.3	4
28	New smart carrageenan-based superabsorbent hydrogel hybrid: Investigation of swelling rate and environmental responsiveness. <i>Journal of Applied Polymer Science</i> , 2010 , 117, n/a-n/a	2.9	4
27	Design and Construction of Fluorescent Cellulose Nanocrystals for Biomedical Applications. <i>Advanced Materials Interfaces</i> , 2101293	4.6	4
26	Virucidal and biodegradable specialty cellulose nonwovens as personal protective equipment against COVID-19 pandemic. <i>Journal of Advanced Research</i> , 2021 ,	13	4
25	Synthesis of poly (amidoamine) (PAMAM) dendrimer-based chitosan for targeted drug delivery and cell therapy. <i>Journal of Basic Research in Medical Sciences</i> , 2018 , 5, 6-13		4
24	Helical Antimicrobial Peptide Encapsulation and Release from Boron Nitride Nanotubes: A Computational Study. <i>International Journal of Nanomedicine</i> , 2021 , 16, 4277-4288	7.3	4
23	Advanced Surfaces by Anchoring Thin Hydrogel Layers of Functional Polymers. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2021 , 39, 14-34	3.5	4
22	Sustainable Recovery of Silver from Deactivated Catalysts Using a Novel Process Combining Leaching and Emulsion Liquid Membrane Techniques. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 13821-13832	3.9	4
21	An innovative colorimetric platform for the low-cost and selective identification of Cu(II), Fe(III), and Hg(II) using GQDs-DPA supported amino acids by microfluidic paper-based (μ PADs) device: Multicolor plasmonic patterns. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 106197	6.8	4
20	Preparation and Characterization of Thin-Film Nanocomposite Membrane Incorporated with MoO ₃ Nanoparticles with High Flux Performance for Forward Osmosis. <i>ChemistrySelect</i> , 2019 , 4, 7832-7837	1.8	3
19	Biopolymer-based membranes from polysaccharides for CO ₂ separation: a review. <i>Environmental Chemistry Letters</i> , 2022 , 20, 1083	13.3	3
18	Thiomers of Chitosan and Cellulose: Effective Biosorbents for Detection, Removal and Recovery of Metal Ions from Aqueous Medium. <i>Chemical Record</i> , 2021 , 21, 1876-1896	6.6	3
17	Controlling Release Kinetics of Payloads from Polymer Conjugates by Hydrophobicity. <i>Macromolecular Chemistry and Physics</i> , 2019 , 220, 1900236	2.6	2
16	Sensitive immunosensing of β synuclein protein in human plasma samples using gold nanoparticles conjugated with graphene: an innovative immuno-platform towards early stage identification of Parkinson's disease using point of care (POC) analysis.. <i>RSC Advances</i> , 2022 , 12, 4346-4357	3.7	2

15	Polysaccharide-based electroconductive hydrogels: Structure, properties and biomedical applications.. <i>Carbohydrate Polymers</i> , 2022 , 278, 118998	10.3	2
14	Dynamics of Antimicrobial Peptide Encapsulation in Carbon Nanotubes: The Role of Hydroxylation.. <i>International Journal of Nanomedicine</i> , 2022 , 17, 125-136	7.3	1
13	Human Organs-on-Chips: A Review of the State-of-the-Art, Current Prospects, and Future Challenges. <i>Advanced Biology</i> , 2021 , 6, e2000526		1
12	A novel amino cellulose derivative using ATRP method: Preparation, characterization, and investigation of its antibacterial activity. <i>Bioorganic Chemistry</i> , 2021 , 106, 104355	5.1	1
11	Adsorption onto zeolites: molecular perspective. <i>Chemical Papers</i> , 2021 , 75, 6217	1.9	1
10	Naturally Occurring Exopolysaccharide Nanoparticles for Dye Adsorption. <i>ACS Applied Nano Materials</i> ,	5.6	1
9	Providing multicolor plasmonic patterns with graphene quantum dots functionalized d-penicillamine for visual recognition of V(V), Cu (II), and Fe(III): Colorimetric fingerprints of GQDs-DPA for discriminating ions in human urine samples. <i>Journal of Molecular Recognition</i> , 2021 , 34, e2936	2.6	1
8	Cell-Seeded Biomaterial Scaffolds: The Urgent Need for Unanswered Accelerated Angiogenesis.. <i>International Journal of Nanomedicine</i> , 2022 , 17, 1035-1068	7.3	1
7	Tuning the Hydrolytic Behavior of Hydroxyquinoline Derivatives for Anticorrosion Applications. <i>Chemistry of Materials</i> , 2022 , 34, 2842-2852	9.6	1
6	A novel core@double-shell three-layer structure with dendritic fibrous morphology based on FeO@TEA@Ni-organic framework: a highly efficient magnetic catalyst in the microwave-assisted Sonogashira coupling reaction.. <i>Nanoscale</i> , 2022 , 14, 7189-7202	7.7	1
5	Preparation of nanoparticles of shellac and shellac-oligomer conjugates. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> ,1-13	2.2	0
4	Crystallization of Polysaccharides 2021 , 283-300		0
3	Tannic acid-modified tin oxide nanoparticle and aromatic polyamide: from synthesis to their application for preparation of safe p-PVC. <i>Polymer Bulletin</i> , 2021 , 78, 1331-1352	2.4	0
2	ATRP-tethering Anti-fouling/Anti-fogging Hydrophilic thin Hydrogel Layers on the Surface of Glass Slides. <i>Polymer Science - Series A</i> , 2021 , 63, 705-711	1.2	0
1	Comparative review of piezoelectric biomaterials approach for bone tissue engineering. <i>Journal of Biomaterials Science, Polymer Edition</i> ,1-40	3.5	0