

Zeng-Guo Feng

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91
papers

1,327
citations

22
h-index

32
g-index

95
ext. papers

1,527
ext. citations

4.3
avg, IF

4.5
L-index

#	Paper	IF	Citations
91	Heparin-Conjugated PCL Scaffolds Fabricated by Electrospinning and Loaded with Fibroblast Growth Factor 2. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2011 , 22, 389-406	3.5	63
90	Preparation and self-assembly of amphiphilic triblock copolymers with polyrotaxane as a middle block and their application as carrier for the controlled release of Amphotericin B. <i>Polymer</i> , 2009 , 50, 4343-4351	3.9	61
89	The in vitro and in vivo biocompatibility evaluation of heparin-poly(ϵ -caprolactone) conjugate for vascular tissue engineering scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , 2012 , 100, 3251-3264	5.4	58
88	A vascular tissue engineering scaffold with core-shell structured nano-fibers formed by coaxial electrospinning and its biocompatibility evaluation. <i>Biomedical Materials (Bristol)</i> , 2016 , 11, 035007	3.5	49
87	The fabrication of double layer tubular vascular tissue engineering scaffold via coaxial electrospinning and its 3D cell coculture. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 3863-71	5.4	45
86	Novel main-chain polyrotaxanes synthesized via ATRP of HPMA in aqueous media. <i>Journal of Polymer Science Part A</i> , 2008 , 46, 5283-5293	2.5	45
85	Organo- and hydrogels derived from cyclo(L-Tyr-L-Lys) and its amino derivatives. <i>Soft Matter</i> , 2009 , 5, 1474	3.6	43
84	Solvent- and thermoresponsive polyrotaxanes with beta-cyclodextrin dispersed/aggregated structures on a pluronic F127 backbone. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 5342-9	3.4	39
83	Low-Molecular-Weight Organo- and Hydrogelators Based on Cyclo(l-Lys-l-Glu). <i>Langmuir</i> , 2016 , 32, 4586-94	4.4	38
82	Dual thermo-responsive polyrotaxane-based triblock copolymers synthesized via ATRP of N-isopropylacrylamide initiated with self-assemblies of Br end-capped Pluronic F127 with β -cyclodextrins. <i>Polymer Chemistry</i> , 2011 , 2, 931-940	4.9	37
81	Synthesis and characterization of biodegradable polyurethane based on poly(ϵ -caprolactone) and L-lysine ethyl ester diisocyanate. <i>Frontiers of Materials Science in China</i> , 2009 , 3, 25-32		33
80	Shear-assisted hydrogels based on self-assembly of cyclic dipeptide derivatives. <i>Journal of Materials Chemistry</i> , 2009 , 19, 6100		33
79	Synthesis and characterization of block copolymers comprising a polyrotaxane middle block flanked by two brush-like PCL blocks. <i>Soft Matter</i> , 2009 , 5, 1848	3.6	31
78	The multifunctional wound dressing with core-shell structured fibers prepared by coaxial electrospinning. <i>Frontiers of Materials Science</i> , 2016 , 10, 113-121	2.5	31
77	Supramolecular structured hydrogel preparation based on self-assemblies of photocurable star-shaped macromers with β -cyclodextrins. <i>Journal of Polymer Science Part A</i> , 2005 , 43, 2941-2949	2.5	30
76	A tumor-targeting nano doxorubicin delivery system built from amphiphilic polyrotaxane-based block copolymers. <i>Polymer</i> , 2013 , 54, 5188-5198	3.9	29
75	Novel triblock copolymers comprising a polyrotaxane middle block flanked by PNIPAAm blocks showing both thermo- and solvent-response. <i>Journal of Materials Chemistry</i> , 2011 , 21, 3243-3250		28

74	In situ hydrogel dressing loaded with heparin and basic fibroblast growth factor for accelerating wound healing in rat. <i>Materials Science and Engineering C</i> , 2020 , 116, 111169	8.3	26
73	Cyclodextrin polymers: Structure, synthesis, and use as drug carriers. <i>Progress in Polymer Science</i> , 2021 , 118, 101408	29.6	26
72	Formation of a polypseudorotaxane via self-assembly of β -cyclodextrin with poly(N-isopropylacrylamide). <i>Macromolecular Rapid Communications</i> , 2012 , 33, 1143-8	4.8	25
71	Novel polyrotaxanes comprising β -cyclodextrins and Pluronic F127 end-capped with poly(N-isopropylacrylamide) showing solvent-responsive crystal structures. <i>Polymer</i> , 2011 , 52, 347-355	3.9	23
70	The self-aggregation behaviour of amphotericin B-loaded polyrotaxane-based triblock copolymers and their hemolytic evaluation. <i>Soft Matter</i> , 2009 , 5, 4797	3.6	22
69	Synthesis and evaluation of biodegradable segmented multiblock poly(ether ester) copolymers for biomaterial applications. <i>Polymer International</i> , 2004 , 53, 2145-2154	3.3	22
68	A pH-sensitive binary drug delivery system based on poly(caprolactone)-heparin conjugates. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 880-9	5.4	21
67	Preparation of Small-Diameter Tissue-Engineered Vascular Grafts Electrospun from Heparin End-Capped PCL and Evaluation in a Rabbit Carotid Artery Replacement Model. <i>Macromolecular Bioscience</i> , 2019 , 19, e1900114	5.5	20
66	Vesicular and tubular structures prepared from self-assembly of novel amphiphilic ABA triblock copolymers in aqueous solutions. <i>Journal of Polymer Science Part A</i> , 2008 , 46, 1042-1050	2.5	20
65	Synthesis and characterization of poly(butylene terephthalate)-co-poly(butylene succinate)-block-poly(ethylene glycol) segmented block copolymers. <i>Polymer International</i> , 2003 , 52, 1351-1358	3.3	20
64	Self-healing biodegradable poly(urea-urethane) elastomers based on hydrogen bonding interactions. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2013 , 31, 251-262	3.5	19
63	Thermally responsive polyrotaxanes synthesized through the telomerization of N-isopropylacrylamide with polypseudorotaxanes made from β -cyclodextrin threaded onto thiolated poly(ethylene glycol). <i>Journal of Polymer Science Part A</i> , 2006 , 44, 3717-3723	2.5	18
62	Initiator-free photocrosslinking of electrospun biodegradable polyester fiber based tubular scaffolds and their cell affinity for vascular tissue engineering. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2010 , 28, 829-840	3.5	17
61	Self-Assembly of Polyrotaxanes Synthesized Via Click Chemistry of Azido-Endcapped PNIPAAm-b-Pluronic F68-b-PNIPAAm/ β CD with Propargylamine-Substituted β CDs. <i>Macromolecular Chemistry and Physics</i> , 2014 , 215, 1022-1029	2.6	16
60	Synthesis of water soluble polyrotaxanes by end-capping polypseudo-rotaxanes of β CDs with PHEMA-PPO-PEO-PPO-PHEMA using ATRP of MPC. <i>Polymer Chemistry</i> , 2015 , 6, 5832-5837	4.9	15
59	The penetration and phenotype modulation of smooth muscle cells on surface heparin modified poly(ϵ -caprolactone) vascular scaffold. <i>Journal of Biomedical Materials Research - Part A</i> , 2017 , 105, 2806-2815	5.4	15
58	Synthesis and characterization of homo- and copolymers of 3-(2-cyano ethoxy)methyl- and 3-[methoxy(triethylenoxy)]methyl-3'-methyl-oxetane. <i>Polymer International</i> , 2005 , 54, 1440-1448	3.3	15
57	Experimental study on the construction of small three-dimensional tissue engineered grafts of electrospun poly(ϵ -caprolactone). <i>Journal of Materials Science: Materials in Medicine</i> , 2015 , 26, 112	4.5	14

56	Ultrasound-induced gelation of fluorenyl-9-methoxycarbonyl-L-lysine(fluorenyl-9-methoxycarbonyl)-OH and its dipeptide derivatives showing very low minimum gelation concentrations. <i>Journal of Colloid and Interface Science</i> , 2017 , 490, 665-676	9.3	13
55	The preparation and morphology control of heparin-based pH sensitive polyion complexes and their application as drug carriers. <i>Carbohydrate Polymers</i> , 2019 , 211, 370-379	10.3	13
54	The synthesis and application of heparin-based smart drug carrier. <i>Carbohydrate Polymers</i> , 2016 , 140, 260-8	10.3	13
53	Loose-fit polypseudorotaxanes constructed from CDs and PHEMA-PPG-PEG-PPG-PHEMA. <i>Beilstein Journal of Organic Chemistry</i> , 2014 , 10, 2461-9	2.5	13
52	Stable and Unconventional Conformation of Single PEG Bent CD-Based Polypseudorotaxanes. <i>Macromolecular Chemistry and Physics</i> , 2011 , 212, 2319-2327	2.6	11
51	Vascular Remodeling Process of Heparin-Conjugated Poly(ϵ -Caprolactone) Scaffold in a Rat Abdominal Aorta Replacement Model. <i>Journal of Vascular Research</i> , 2018 , 55, 338-349	1.9	11
50	Rapidly Recoverable Thixotropic Hydrogels from the Racemate of Chiral OFm Monosubstituted Cyclo(Glu-Glu) Derivatives. <i>Langmuir</i> , 2017 , 33, 13821-13827	4	10
49	Study on synthesis of glycopeptide-based triblock copolymers and their aggregation behavior in water. <i>Frontiers of Materials Science in China</i> , 2007 , 1, 162-167		10
48	The preparation of pH and GSH dual responsive thiolated heparin/DOX complex and its application as drug carrier. <i>Carbohydrate Polymers</i> , 2020 , 230, 115592	10.3	10
47	Recyclable Nanoporous Materials with Ordered Tunnels Self-Assembled from β -CD and γ -Cyclodextrins. <i>ChemNanoMat</i> , 2019 , 5, 838-846	3.5	9
46	The intrinsic microstructure of supramolecular hydrogels derived from β -cyclodextrin and pluronic F127: nanosheet building blocks and hierarchically self-assembled structures. <i>Soft Matter</i> , 2020 , 16, 5906-5909 ⁸	2.6	8
45	The preparation of cationic folic acid and its application in drug delivery system. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2014 , 32, 1714-1723	3.5	8
44	Long-term investigation on hydrolytic degradation and morphology of poly(ethylene glycol terephthalate)-b-poly(butylene terephthalate) copolymer films. <i>Journal of Applied Polymer Science</i> , 2009 , 111, 1462-1470	2.9	8
43	Gelation capability of cysteine-modified cyclo(L-Lys-L-Lys)s dominated by Fmoc and Trt protecting groups. <i>Science China Chemistry</i> , 2016 , 59, 293-302	7.9	7
42	Loose-Fit Polypseudorotaxanes Fabricated by CDs Threaded Onto a Single PNIPAAm-PEG-PNIPAAm Chain in Aqueous Solution. <i>Macromolecular Chemistry and Physics</i> , 2012 , 213, 1532-1539	2.6	7
41	End-capping double-chain stranded polypseudorotaxanes using lengthily tunable poly(2-hydroxyethyl methacrylate) blocks via atom transfer radical polymerization. <i>Polymer International</i> , 2010 , 59, 917-922	3.3	7
40	Polyrotaxanes created by end-capping polypseudorotaxanes self-assembled from CDs with distal azide terminated PHEMA using propargylamine monosubstituted CDs. <i>Polymer Chemistry</i> , 2020 , 11, 653-658	4.9	7
39	Preparation and in vivo evaluation of surface heparinized small diameter tissue engineered vascular scaffolds of poly(ϵ -caprolactone) embedded with collagen suture. <i>Journal of Biomaterials Applications</i> , 2020 , 34, 812-826	2.9	7

38	Synthesis and gelation capability of mono- and disubstituted cyclo(L-Glu-L-Glu) derivatives with tyramine, tyrosine and phenylalanine. <i>Colloid and Polymer Science</i> , 2017 , 295, 1549-1561	2.4	6
37	Gelatin coating promotes endothelialization of electrospun polycaprolactone vascular grafts. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2021 , 32, 1161-1181	3.5	6
36	Synthesis and gelation capability of Fmoc and Boc mono-substituted cyclo(L-Lys-L-Lys)s. <i>Chemical Research in Chinese Universities</i> , 2016 , 32, 484-492	2.2	6
35	Unexpected Polypseudorotaxanes Formed from the Self-assembly of β Cyclodextrins with Poly(N-isopropylacrylamide) Homo- and Copolymers. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 5004-5013	3.4	5
34	Characterization of a heparinized decellularized scaffold and its effects on mechanical and structural properties. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2020 , 31, 999-1023	3.5	5
33	Distinguishing channel-type crystal structure from dispersed structure in β cyclodextrin based polyrotaxanes via FTIR spectroscopy. <i>Frontiers of Materials Science</i> , 2011 , 5, 329-334	2.5	5
32	Enzyme-catalyzed preparation of supramolecular structured hydrogel of polypseudorotaxanes derived from the self-assembly of β CDs with 3-arm p-hydroxyphenylpropionate terminated PEG. <i>Frontiers of Materials Science in China</i> , 2007 , 1, 395-400		5
31	Hydrogel Complex Electrospun Scaffolds and Their Multiple Functions in In Situ Vascular Tissue Engineering.. <i>ACS Applied Bio Materials</i> , 2021 , 4, 2373-2384	4.1	5
30	How Does PHEMA Pass through the Cavity of β CDs to Create Mismatched Overfit Polypseudorotaxanes?. <i>Langmuir</i> , 2018 , 34, 14076-14084	4	5
29	A one-step synthesis of polyrotaxane via in situ Michael addition reaction. <i>Iranian Polymer Journal (English Edition)</i> , 2015 , 24, 679-685	2.3	4
28	Slightly Cross-Linked Polyrotaxanes Made by Linking β Cyclodextrins Entrapped in Polyrotaxanes Using Hexamethylene Diisocyanate. <i>Chinese Journal of Chemistry</i> , 2012 , 30, 2453-2460	4.9	4
27	Biocompatibility evaluation of heparin-conjugated poly(β caprolactone) scaffolds in a rat subcutaneous implantation model. <i>Journal of Materials Science: Materials in Medicine</i> , 2020 , 31, 76	4.5	4
26	The synthesis and characterization of a processable polyrotaxane-based triblock copolymer via a two steps strategy. <i>RSC Advances</i> , 2016 , 6, 33221-33230	3.7	4
25	The mobility of threaded β cyclodextrins in PR copolymer and its influences on mechanical properties. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2017 , 35, 752-763	3.5	3
24	Self-assemblies of β CDs with pentablock copolymers PMA-PPO-PEO-PPO-PMA and endcapping via atom transfer radical polymerization of 2-methacryloyloxyethyl phosphorylcholine. <i>Beilstein Journal of Organic Chemistry</i> , 2015 , 11, 2267-77	2.5	3
23	Synthesis and characterization of polyrotaxanes comprising β cyclodextrins and poly(β caprolactone) end-capped with poly(butyl methacrylate)s. <i>Polymer International</i> , 2014 , 63, 1025-1034	3.3	3
22	Synthesis and characteristics of a silicon-containing polymer, manufacture of an electrolyte membrane from the polymer and poly(vinylidene fluoride-co-hexafluoropropene), and property testing of the membrane. <i>Journal of Applied Polymer Science</i> , 2009 , 114, 1086-1093	2.9	3
21	A Study on Properties of PEG Bent Double Chain Stranded Polypseudorotaxanes with β Cyclodextrins. <i>Acta Chimica Sinica</i> , 2013 , 71, 347	3.3	3

20	The preparation of hybrid trimer by cyclo-oligomerization of TDI and HDI and its curing process with polyols to form elastic PU coating 2017 , 14, 1279-1288		3
19	Polypseudorotaxane-based multiblock copolymers prepared via in situ ATRP of NIPAAm initiated by inclusion complex having a feeding ratio of 4 CDs to ferrocene containing initiator. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2020 , 96, 69-79	1.7	3
18	Constructing solvent-free inclusion complexes from Cyclodextrin- and adamantane-terminated polycaprolactones and their mechanical and shape memory properties. <i>Polymer</i> , 2021 , 230, 124047	3.9	3
17	Polyrotaxane-based triblock copolymers synthesized via ATRP of N-isopropylacrylamide initiated from the terminals of polypseudorotaxane of Br end-capped pluronic 17R4 and Cyclodextrins. <i>Science China Chemistry</i> , 2012 , 55, 1115-1124	7.9	2
16	Synthesis of copolymers of 3-acryloyloxymethyl-3'-methyloxetane and 3-(2-(2-(2-methoxyethylenoxy)ethylenoxy)ethylenoxy)-3'-methyloxetane and their ionic conductivity properties. <i>Frontiers of Chemical Engineering in China</i> , 2007 , 1, 343-348		2
15	The Synthesis and Characterization of Spacer-Free Liquid Crystal Polyrotaxane by Virtue of the Mobility of Threaded Cyclodextrins. <i>Macromolecular Chemistry and Physics</i> , 2016 , 217, 646-653	2.6	2
14	Design and characterization of small-diameter tissue-engineered blood vessels constructed by electrospun polyurethane-core and gelatin-shell coaxial fiber. <i>Bioengineered</i> , 2021 , 12, 5769-5788	5.7	2
13	Design and Fabrication of Polymeric Hydrogel Carrier for Nerve Repair.. <i>Polymers</i> , 2022 , 14,	4.5	2
12	Hydroxypropyl Cyclodextrin Solubilizing Hydrophobic Initiator to Initiate Copper-Mediated RDRP of NIPAM in Aqueous Media. <i>ChemistrySelect</i> , 2020 , 5, 3385-3390	1.8	1
11	Chemical coatings relying on the self-polymerization of catechol for retrievable vena cava filters. <i>New Journal of Chemistry</i> , 2018 , 42, 3722-3728	3.6	1
10	A Polyrotaxane-based pH-labile Drug Delivery System. <i>Periodica Polytechnica: Chemical Engineering</i> , 2014 , 58, 55	1.3	1
9	Synthesis and characterization of novel triblock copolymers comprising poly(tetrahydrofuran) as a central block and poly(benzyl L-glutamate)s as outer blocks. <i>Frontiers of Materials Science in China</i> , 2008 , 2, 84-90		1
8	Preparation and evaluation of two kinds of solid polymer electrolytes made from crosslinked poly(ether urethane) elastomers consisting of a comb-like and a hyperbranched polyether. <i>Journal of Applied Polymer Science</i> , 2008 , 109, 1955-1961	2.9	1
7	Size-complementary effects of PEG diamine 1,1'-disubstituted ferrocene on incorporations of CDs and Cyclodextrins and syntheses of poly(pseudo)rotaxanes with lower coverages therefrom. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 1	1.7	1
6	Synthesis and Characterization of Polyrotaxanes Comprising CDs and Distal Azide-Terminated PHEMA Using Propargylamine Monosubstituted CDs as End Stoppers. <i>Macromolecular Chemistry and Physics</i> , 2020 , 221, 2000157	2.6	1
5	The performance of heparin modified poly(ϵ -caprolactone) small diameter tissue engineering vascular graft in canine-A long-term pilot experiment in vivo. <i>Journal of Biomedical Materials Research - Part A</i> , 2021 , 109, 2493-2505	5.4	1
4	Anti-coagulation and anti-hyperplasia coating for retrievable vena cava filters by electro spraying and their performance in vivo.. <i>International Journal of Pharmaceutics</i> , 2022 , 619, 121690	6.5	1
3	The crescendo pulse frequency of shear stress stimulates the endothelialization of bone marrow mesenchymal stem cells on the luminal surface of decellularized scaffold in the bioreactor.. <i>Bioengineered</i> , 2022 , 13, 7925-7938	5.7	0

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| 2 | Fabrication of heparinized small diameter TPU/PCL bi-layered artificial blood vessels and in vivo assessment in a rabbit carotid artery replacement model.. <i>Materials Science and Engineering C</i> , 2021 , 112628 | 8.3 | o |
| 1 | Preparation and characterization of cross-linked polyurethanes using ECD [3]PR as slide-ring cross-linker. <i>Polymer</i> , 2022 , 249, 124862 | 3.9 | o |