

Iliya Rashkov

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99
papers

3,163
citations

31
h-index

52
g-index

105
ext. papers

3,459
ext. citations

4.6
avg, IF

5.14
L-index

#	Paper	IF	Citations
99	Electrospun nano-fibre mats with antibacterial properties from quaternised chitosan and poly(vinyl alcohol). <i>Carbohydrate Research</i> , 2006 , 341, 2098-107	2.9	291
98	Novel antibacterial fibers of quaternized chitosan and poly(vinyl pyrrolidone) prepared by electrospinning. <i>European Polymer Journal</i> , 2007 , 43, 1112-1122	5.2	221
97	Electrospun non-woven nanofibrous hybrid mats based on chitosan and PLA for wound-dressing applications. <i>Macromolecular Bioscience</i> , 2009 , 9, 102-11	5.5	163
96	Preparation, characterization and biological activity of Schiff base compounds derived from 8-hydroxyquinoline-2-carboxaldehyde and Jeffamines ED \square . <i>European Polymer Journal</i> , 2002 , 38, 989-999 ^{5.2}	5.2	117
95	Biocomposite scaffolds based on electrospun poly(3-hydroxybutyrate) nanofibers and electrospayed hydroxyapatite nanoparticles for bone tissue engineering applications. <i>Materials Science and Engineering C</i> , 2014 , 38, 161-9	8.3	95
94	Electrospun antibacterial chitosan-based fibers. <i>Macromolecular Bioscience</i> , 2013 , 13, 860-72	5.5	94
93	Drug-loaded electrospun materials in wound-dressing applications and in local cancer treatment. <i>Expert Opinion on Drug Delivery</i> , 2013 , 10, 469-83	8	91
92	Electrospinning of poly(vinyl pyrrolidone)–b \square dine complex and poly(ethylene oxide)/poly(vinyl pyrrolidone)–b \square dine complex – a prospective route to antimicrobial wound dressing materials. <i>European Polymer Journal</i> , 2007 , 43, 1609-1623	5.2	91
91	Poly lactide stereocomplex-based electrospun materials possessing surface with antibacterial and hemostatic properties. <i>Biomacromolecules</i> , 2010 , 11, 151-9	6.9	71
90	Polyelectrolyte complexes between (cross-linked) N-carboxyethylchitosan and (quaternized) poly[2-(dimethylamino)ethyl methacrylate]: preparation, characterization, and antibacterial properties. <i>Biomacromolecules</i> , 2007 , 8, 976-84	6.9	69
89	Amphiphilic poly(D- or L-lactide)-b-poly(N,N-dimethylamino-2-ethyl methacrylate) block copolymers: controlled synthesis, characterization, and stereocomplex formation. <i>Biomacromolecules</i> , 2009 , 10, 1217-23	6.9	62
88	Electrospun chitosan-coated fibers of poly(L-lactide) and poly(L-lactide)/poly(ethylene glycol): preparation and characterization. <i>Macromolecular Bioscience</i> , 2008 , 8, 153-62	5.5	61
87	Poly lactide (PLA)-Based Electrospun Fibrous Materials Containing Ionic Drugs as Wound Dressing Materials: A Review. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2014 , 63, 657-671	3	60
86	Hydrolytic degradation of PLA/PEO/PLA triblock copolymers prepared in the presence of Zn metal or CaH \square . <i>Polymer</i> , 1998 , 39, 5421-5430	3.9	58
85	Antibacterial fluoroquinolone antibiotic-containing fibrous materials from poly(L-lactide-co-D,L-lactide) prepared by electrospinning. <i>European Journal of Pharmaceutical Sciences</i> , 2012 , 47, 642-51	5.1	53
84	Electrospinning/electrospraying vs. electrospinning: A comparative study on the design of poly(l-lactide)/zinc oxide non-woven textile. <i>Applied Surface Science</i> , 2014 , 311, 842-850	6.7	50
83	Preparation of chitosan-containing nanofibres by electrospinning of chitosan/poly(ethylene oxide) blend solutions. <i>E-Polymers</i> , 2004 , 4,	2.7	50

82	Poly(L-lactide) and poly(butylene succinate) immiscible blends: from electrospinning to biologically active materials. <i>Materials Science and Engineering C</i> , 2014 , 41, 119-26	8.3	48
81	Electrospun poly(L-lactide) membranes containing a single drug or multiple drug system for antimicrobial wound dressings. <i>Macromolecular Research</i> , 2011 , 19, 1310-1319	1.9	46
80	Hybrid nanofibrous yarns based on N-carboxyethylchitosan and silver nanoparticles with antibacterial activity prepared by self-bundling electrospinning. <i>Carbohydrate Research</i> , 2010 , 345, 2374-2380	3.0	44
79	Synthesis of adaptative and amphiphilic polymer model conetworks by versatile combination of ATRP, ROP, and Click chemistry. <i>Journal of Polymer Science Part A</i> , 2008 , 46, 4997-5013	2.5	43
78	From design of bio-based biocomposite electrospun scaffolds to osteogenic differentiation of human mesenchymal stromal cells. <i>Journal of Materials Science: Materials in Medicine</i> , 2014 , 25, 1563-75	4.5	41
77	Bicomponent aligned nanofibers of N-carboxyethylchitosan and poly(vinyl alcohol). <i>European Polymer Journal</i> , 2007 , 43, 2809-2818	5.2	40
76	Study of charge storage in the nanofibrous poly(ethylene terephthalate) electrets prepared by electrospinning or by corona discharge method. <i>European Polymer Journal</i> , 2008 , 44, 1962-1967	5.2	40
75	Multifunctional hybrid materials from poly(3-hydroxybutyrate), TiO ₂ nanoparticles, and chitosan oligomers by combining electrospinning/electrospraying and impregnation. <i>Macromolecular Bioscience</i> , 2013 , 13, 707-16	5.5	39
74	Synthesis of polymer-stabilized magnetic nanoparticles and fabrication of nanocomposite fibers thereof using electrospinning. <i>European Polymer Journal</i> , 2008 , 44, 615-627	5.2	39
73	Electrospun hybrid nanofibers based on chitosan or N-carboxyethylchitosan and silver nanoparticles. <i>Macromolecular Bioscience</i> , 2009 , 9, 884-94	5.5	37
72	New Nanostructured Materials Based on Fullerene and Biodegradable Polyesters. <i>Chemistry of Materials</i> , 2006 , 18, 4917-4923	9.6	34
71	Curcumin-loaded poly(L-lactide-co-D,L-lactide) electrospun fibers: Preparation and antioxidant, anticoagulant, and antibacterial properties. <i>Journal of Bioactive and Compatible Polymers</i> , 2014 , 29, 607-627	2.2	33
70	C60-containing nanostructured polymeric materials with potential biomedical applications. <i>Polymer</i> , 2007 , 48, 1835-1843	3.9	32
69	Advanced centrifugal electrospinning setup. <i>Materials Letters</i> , 2014 , 136, 150-152	3.3	29
68	Antibacterial electrospun poly(ϵ -caprolactone)/ascorbyl palmitate nanofibrous materials. <i>International Journal of Pharmaceutics</i> , 2011 , 416, 346-55	6.5	29
67	Polyelectrolyte complexes based on (quaternized) poly[(2-dimethylamino)ethyl methacrylate]: behavior in contact with blood. <i>Macromolecular Bioscience</i> , 2007 , 7, 940-54	5.5	28
66	Novel electrospun poly(ϵ -caprolactone)-based bicomponent nanofibers possessing surface enriched in tertiary amino groups. <i>European Polymer Journal</i> , 2008 , 44, 566-578	5.2	28
65	Preparation of Well-Defined Poly[(ethylene oxide)-block-(sodium 2-acrylamido-2-methyl-1-propane sulfonate)] Diblock Copolymers by Water-Based Atom Transfer Radical Polymerization. <i>Macromolecular Rapid Communications</i> , 2006 , 27, 1489-1494	4.8	28

64	Tuning of the surface biological behavior of poly(L-lactide)-based electrospun materials by polyelectrolyte complex formation. <i>Biomacromolecules</i> , 2010 , 11, 521-32	6.9	27
63	Electrospun mats from styrene/maleic anhydride copolymers: modification with amines and assessment of antimicrobial activity. <i>Macromolecular Bioscience</i> , 2010 , 10, 944-54	5.5	27
62	Novel Electrospun Nanofibers Composed of Polyelectrolyte Complexes. <i>Macromolecular Rapid Communications</i> , 2008 , 29, 677-681	4.8	27
61	Comprehensive study on the formation of polyelectrolyte complexes from (quaternized) poly[2-(dimethylamino)ethyl methacrylate] and poly(2-acrylamido-2-methylpropane sodium sulfonate). <i>Journal of Polymer Science Part A</i> , 2006 , 44, 5468-5479	2.5	27
60	Novel biodegradable adaptive hydrogels: controlled synthesis and full characterization of the amphiphilic co-networks. <i>Chemistry - A European Journal</i> , 2008 , 14, 6369-78	4.8	26
59	Photocatalytic self-cleaning poly(L-lactide) materials based on a hybrid between nanosized zinc oxide and expanded graphite or fullerene. <i>Materials Science and Engineering C</i> , 2016 , 60, 184-194	8.3	25
58	Quaternized chitosan/βarrageenan/caffeic acid-coated poly(3-hydroxybutyrate) fibrous materials: Preparation, antibacterial and antioxidant activity. <i>International Journal of Pharmaceutics</i> , 2016 , 513, 528-537	6.5	25
57	Polymer fibers with magnetic core decorated with titanium dioxide prospective for photocatalytic water treatment. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 2075-2084	6.8	23
56	Chitosan/ferulic acid-coated poly(ε-caprolactone) electrospun materials with antioxidant, antibacterial and antitumor properties. <i>International Journal of Biological Macromolecules</i> , 2018 , 107, 689-702	7.9	23
55	Poly(3-hydroxybutyrate)-based hybrid materials with photocatalytic and magnetic properties prepared by electrospinning and electrospraying. <i>Journal of Materials Science</i> , 2014 , 49, 2144-2153	4.3	22
54	Antiproliferative activity of nanofibers containing quaternized chitosan and/or doxorubicin against MCF-7 human breast carcinoma cell line by apoptosis. <i>Journal of Bioactive and Compatible Polymers</i> , 2011 , 26, 539-551	2	22
53	Nonspecific interactions in polymer-polymer reactions. Complex formation between polycarboxylic acids and 5-nitro-8-quinolinoxyl derivatives of polyethylene glycols. <i>European Polymer Journal</i> , 1991 , 27, 189-192	5.2	22
52	Modification of electrospun poly(ε-caprolactone) mats by formation of a polyelectrolyte complex between poly(acrylic acid) and quaternized chitosan for tuning of their antibacterial properties. <i>European Polymer Journal</i> , 2014 , 50, 18-29	5.2	21
51	Non-woven fibrous materials with antibacterial properties prepared by tailored attachment of quaternized chitosan to electrospun mats from maleic anhydride copolymer. <i>Macromolecular Bioscience</i> , 2012 , 12, 104-15	5.5	21
50	Immobilization of acetylcholinesterase on new modified acrylonitrile copolymer membranes. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2008 , 55, 169-176		20
49	Novel polyelectrolyte complexes between N-carboxyethylchitosan and synthetic polyelectrolytes. <i>European Polymer Journal</i> , 2006 , 42, 858-868	5.2	20
48	Antibacterial and antioxidant electrospun materials from poly(3-hydroxybutyrate) and polyvinylpyrrolidone containing caffeic acid phenethyl ester - "in" and "on" strategies for enhanced solubility. <i>International Journal of Pharmaceutics</i> , 2018 , 545, 342-356	6.5	19
47	Electrospun Polyacrylonitrile Nanofibrous Membranes Tailored for Acetylcholinesterase Immobilization. <i>Journal of Bioactive and Compatible Polymers</i> , 2010 , 25, 40-57	2	19

46	Dual vs. single spinneret electrospinning for the preparation of dual drug containing non-woven fibrous materials. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013 , 439, 176-183	5.1	18
45	Tuning the properties of PVDF or PVDF-HFP fibrous materials decorated with ZnO nanoparticles by applying electrospinning alone or in conjunction with electrospraying. <i>Fibers and Polymers</i> , 2017 , 18, 649-657	2	18
44	Quaternized chitosan-coated nanofibrous materials containing gossypol: preparation by electrospinning, characterization and antiproliferative activity towards HeLa cells. <i>International Journal of Pharmaceutics</i> , 2012 , 436, 10-24	6.5	18
43	Nonspecific interactions in polymer-polymer reactions. Complex formation between polycarboxylic acids and 2-acetoxybenzoate derivatives of poly(ethylene glycol)s. <i>European Polymer Journal</i> , 1991 , 27, 1045-1048	5.2	17
42	Electrospun polylactide-based materials for curcumin release: Photostability, antimicrobial activity, and anticoagulant effect. <i>Journal of Applied Polymer Science</i> , 2016 , 133, n/a-n/a	2.9	17
41	Separation of C60/C70 mixture on activated carbon and activated carbon fibres. <i>Carbon</i> , 1995 , 33, 209-213	4	15
40	Optimized water-based ATRP of an anionic monomer: Comprehension and properties characterization. <i>Journal of Polymer Science Part A</i> , 2009 , 47, 1108-1119	2.5	14
39	Electrospun materials from polylactide and Schiff base derivative of Jeffamine ED4 and 8-hydroxyquinoline-2-carboxaldehyde and its complex with Cu: Preparation, antioxidant and antitumor activities. <i>Materials Science and Engineering C</i> , 2020 , 116, 111185	8.3	11
38	Polyelectrolyte complex nanoparticles from N-carboxyethylchitosan and polycationic double hydrophilic diblock copolymers. <i>Journal of Polymer Science Part A</i> , 2009 , 47, 2105-2117	2.5	11
37	Natural polyampholyte-based core-shell nanoparticles with N-carboxyethylchitosan-containing core and poly(ethylene oxide) shell. <i>Biomacromolecules</i> , 2009 , 10, 838-44	6.9	11
36	Electrospun non-woven mats from stereocomplex between high molar mass poly(L-lactide) and poly(D-lactide)-block-poly(butylene succinate) copoly(ester urethane)s. <i>European Polymer Journal</i> , 2012 , 48, 1965-1975	5.2	9
35	New polyelectrolyte complex of chitosan: Preparation, characterization, and application as a biocontrol agent carrier. <i>Journal of Bioactive and Compatible Polymers</i> , 2012 , 27, 148-160	2	9
34	Self-assembly of N-carboxyethylchitosan near the isoelectric point. <i>Journal of Polymer Science Part A</i> , 2008 , 46, 6712-6721	2.5	9
33	Preparation, properties and complex formation ability of poly(ether-ester)s of poly(ethylene glycol)s and 2,6-pyridinedicarboxylic acid. <i>Macromolecular Chemistry and Physics</i> , 1995 , 196, 2695-2708	2.6	9
32	Materials from Nanosized ZnO and Polyacrylonitrile: Properties Depending on the Design of Fibers (Electrospinning or Electrospinning/Electrospraying). <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2017 , 27, 912-922	3.2	8
31	Modulating the Mechanical Properties of Electrospun PHB/PCL Materials by Using Different Types of Collectors and Heat Sealing. <i>Polymers</i> , 2020 , 12,	4.5	8
30	Electrospun Cellulose acetate membranes decorated with curcumin-PVP particles: preparation, antibacterial and antitumor activities. <i>Journal of Materials Science: Materials in Medicine</i> , 2017 , 29, 9	4.5	8
29	Electrospun 5-chloro-8-hydroxyquinoline-Loaded Cellulose Acetate/Polyethylene Glycol Antifungal Membranes Against Esca. <i>Polymers</i> , 2019 , 11,	4.5	8

28	Mechanism of the anionic polymerization of lactones, initiated by intercalation graphite compounds. <i>Polymer Bulletin</i> , 1981 , 4, 97-103	2.4	8
27	Antioxidant and Antitumor Activities of Novel Quercetin-Loaded Electrospun Cellulose Acetate/Polyethylene Glycol Fibrous Materials. <i>Antioxidants</i> , 2020 , 9,	7.1	7
26	Curcumin-PVP Loaded Electrospun Membranes with Conferred Antibacterial and Antitumoral Activities. <i>Fibers and Polymers</i> , 2020 , 21, 55-65	2	7
25	N,N,N-trimethylchitosan iodide complexes with a weak or a strong polyacid and nanoparticles thereof. <i>Colloid and Polymer Science</i> , 2014 , 292, 2899-2912	2.4	7
24	Stable Aqueous Dispersion of PEGylated Nanoparticles by Polyelectrolyte Complex Formation. <i>Macromolecular Rapid Communications</i> , 2007 , 28, 1361-1365	4.8	7
23	Quaternized chitosan-coated nanofibrous implants loaded with gossypol prepared by electrospinning and their efficacy against Graffi myeloid tumor. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2014 , 25, 287-306	3.5	6
22	Copolymers of 2-acryloylamido-2-methylpropanesulfonic acid and acrylic acid with anticoagulant activity. <i>E-Polymers</i> , 2003 , 3,	2.7	6
21	Water-soluble polymers bearing biologically active residues, 1. Synthesis and characterization of poly(ether-ester)s bearing hydroxyl side groups and their derivatization with 1-naphthylacetic acid. <i>Die Makromolekulare Chemie</i> , 1993 , 194, 1065-1078		6
20	Nanoparticles based on complex of berberine chloride and polymethacrylic or polyacrylic acid with antioxidant and in vitro antitumor activities. <i>International Journal of Pharmaceutics</i> , 2020 , 584, 119426	6.5	6
19	Electrospun Eco-Friendly Materials Based on Poly(3-hydroxybutyrate) (PHB) and TiO with Antifungal Activity Prospective for Esca Treatment. <i>Polymers</i> , 2020 , 12,	4.5	5
18	Preparation, characterisation and properties of poly(ether-amide)s bearing hydroxyl side groups and of their derivatives with the synthetic auxin 1-naphthylacetic acid. <i>Macromolecular Chemistry and Physics</i> , 1998 , 199, 87-96	2.6	5
17	Water-soluble polymers bearing biologically active residues, 3. Hydrolysis of polyethers and poly(ether-ester)s bearing 1-naphthylacetyl groups. <i>Macromolecular Chemistry and Physics</i> , 1995 , 196, 1663-1669	2.6	5
16	Cationic polymerization initiated by intercalation compounds of Lewis acids. <i>Polymer Bulletin</i> , 1983 , 10, 487-490	2.4	5
15	Electrospun fibers from polylactide-based stereocomplex: why?. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2021 , 70, 270-286	3	5
14	Electrospun PLLA/PEG scaffolds. <i>Materials Today</i> , 2019 , 28, 114-115	21.8	3
13	Thermal imidization peculiarities of electrospun BPDA-PDA/ODA copolyamic acid nanofibers. <i>Macromolecular Research</i> , 2013 , 21, 419-426	1.9	3
12	Water-soluble polymers bearing biologically active residues, 2. Complexes of poly(ether-ester)s with polyacrylic and polymethacrylic acids. <i>Die Makromolekulare Chemie</i> , 1993 , 194, 3107-3122		3
11	Electrospun CuS/ZnSBAN Hybrids as Efficient Visible-Light Photocatalysts. <i>Catalysis Letters</i> , 2018 , 148, 2756-2764	2.8	2

10	One-Step Preparation of Electrospun Microfibrous Polystyrene Mats Having Surface Enriched in p-tert-Butylcalix[4]arene Fitted with Phosphinoyl Pendant Arms. <i>Macromolecular Rapid Communications</i> , 2008 , 29, 1871-1876	4.8	2
9	Electrospun 5-Chloro-7-iodo-8-hydroxyquinoline (Clioquinol)-Containing Poly(3-hydroxybutyrate)/Polyvinylpyrrolidone Antifungal Materials Prospective as Active Dressings against Esca.. <i>Polymers</i> , 2022 , 14,	4.5	2
8	Effect of coating on the mechanical properties of electrospun poly(3-hydroxybutyrate) materials with targeted fibers alignment. <i>Journal of Polymer Research</i> , 2021 , 28, 1	2.7	2
7	Composite multilayer thin films morphology and their interactions with proteins as a function of polyanion structure. <i>Macromolecular Research</i> , 2011 , 19, 1062-1070	1.9	1
6	New phytoactive polymers prepared by polycondensation. <i>Macromolecular Symposia</i> , 1997 , 122, 281-286.	0.8	1
5	Novel polyelectrolyte complex between chitosan and poly(2-acryloylamido-2-methylpropanesulfonic acid-coacrylic acid). <i>E-Polymers</i> , 2003 , 3,	2.7	1
4	Electrospun Polymer-Fungicide Nanocomposites for Grapevine Protection. <i>Polymers</i> , 2021 , 13,	4.5	1
3	Cellulose Acetate-Based Electrospun Materials with a Variety of Biological Potentials: Antibacterial, Antifungal and Anticancer. <i>Polymers</i> , 2021 , 13,	4.5	1
2	8-Hydroxyquinoline-5-Sulfonic Acid-Containing Poly(Vinyl Alcohol)/Chitosan Electrospun Materials and Their Cu and Fe Complexes: Preparation, Antibacterial, Antifungal and Antitumor Activities. <i>Polymers</i> , 2021 , 13,	4.5	1
1	Core-sheath-like Poly(ethylene oxide)/Beeswax Composite Fibers Prepared by Single-spinneret Electrospinning. Antibacterial, Antifungal and Antitumor activities.. <i>Macromolecular Bioscience</i> , 2022 , e2200015	5.5	0