Dariush Semnani

List of Publications by Year
in descending order

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102	1,680	331670 21	377865 34
papers	citations	h-index	g-index

105	105	105	2068
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Artificial neural network for modeling the elastic modulus of electrospun polycaprolactone/gelatin scaffolds. Acta Biomaterialia, 2014, 10, 709-721.	8.3	105
2	Evaluation of PCL/chitosan electrospun nanofibers for liver tissue engineering. International Journal of Polymeric Materials and Polymeric Biomaterials, 2017, 66, 149-157.	3.4	96
3	Electrospun tecophilic/gelatin nanofibers with potential for small diameter blood vessel tissue engineering. Biopolymers, 2014, 101, 1165-1180.	2.4	78
4	Evaluation of physical, mechanical and biological properties of poly 3-hydroxybutyrate-chitosan-multiwalled carbon nanotube/silk nano-micro composite scaffold for cartilage tissue engineering applications. International Journal of Biological Macromolecules, 2019, 132, 822-835.	7.5	66
5	Nano/Micro Hybrid Scaffold of PCL or P3HB Nanofibers Combined with Silk Fibroin for Tendon and Ligament Tissue Engineering. Journal of Applied Biomaterials and Functional Materials, 2015, 13, 156-168.	1.6	59
6	Polycaprolactone/chitosan blend nanofibers loaded by 5â€fluorouracil: An approach to anticancer drug delivery system. Polymers for Advanced Technologies, 2018, 29, 2972-2981.	3.2	59
7	A novel bilayer drug-loaded wound dressing of PVDF and PHB/Chitosan nanofibers applicable for post-surgical ulcers. International Journal of Polymeric Materials and Polymeric Biomaterials, 2019, 68, 772-777.	3.4	54
8	Fabrication of Nanofibrous PVA/Alginateâ€Sulfate Substrates for Growth Factor Delivery. Journal of Biomedical Materials Research - Part A, 2019, 107, 403-413.	4.0	50
9	Phenotypic Modulation of Smooth Muscle Cells by Chemical and Mechanical Cues of Electrospun Tecophilic/Gelatin Nanofibers. ACS Applied Materials & Interfaces, 2014, 6, 4089-4101.	8.0	43
10	Effects of nano-bioactive glass on structural, mechanical and bioactivity properties of Poly (3-hydroxybutyrate) electrospun scaffold for bone tissue engineering applications. Materials Technology, 2019, 34, 540-548.	3.0	41
11	Nanofibrous poly(ethylene oxide)â€based structures incorporated with multiâ€walled carbon nanotube and graphene oxide as allâ€solidâ€state electrolytes for lithium ion batteries. Polymer International, 2019, 68, 1787-1794.	3.1	31
12	Evaluating the electrochemical properties of PEOâ€based nanofibrous electrolytes incorporated with TiO₂ nanofiller applicable in lithiumâ€ion batteries. Polymers for Advanced Technologies, 2019, 30, 1234-1242.	3.2	31
13	Application of Electrospun Nanofibers for Fabrication of Versatile and Highly Efficient Electrochemical Devices: A Review. Polymers, 2021, 13, 1741.	4.5	29
14	Performance prediction of a specific wear rate in epoxy nanocomposites with various composition content of polytetrafluoroethylen (PTFE), graphite, short carbon fibers (CF) and nano-TiO2 using adaptive neuro-fuzzy inference system (ANFIS). Composites Part B: Engineering, 2012, 43, 549-558.	12.0	28
15	Effect of titanium dioxide and zinc oxide fillers on morphology, electrochemical and mechanical properties of the PEO-based nanofibers, applicable as an electrolyte for lithium-ion batteries. Materials Research Express, 2019, 6, 0850d6.	1.6	28
16	Investigation and comparison of new galactosylation methods on PCL/chitosan scaffolds for enhanced liver tissue engineering. International Journal of Biological Macromolecules, 2021, 174, 278-288.	7.5	27
17	Synthesis and characterization of a novel polyurethane/polypyrroleâ€pâ€toluenesulfonate (PU/PPyâ€pTS) electroactive nanofibrous bending actuator. Polymers for Advanced Technologies, 2019, 30, 2261-2274.	3.2	26
18	Introducing two simple models for predicting fiberâ€reinforced asphalt concrete behavior during longitudinal loads. Journal of Applied Polymer Science, 2008, 109, 2872-2881.	2.6	25

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19	Electrospun PEO nanofibrous membrane enable by LiCl, LiClO4, and LiTFSI salts: a versatile solvent-free electrolyte for lithium-ion battery application. Ionics, 2020, 26, 3249-3260.	2.4	25
20	The effect of concentration and ratio of ethylene carbonate and propylene carbonate plasticizers on characteristics of the electrospun PEO-based electrolytes applicable in lithium-ion batteries. Solid State Ionics, 2020, 347, 115252.	2.7	25
21	Poly (Îµ-caprolactone)/poly (N-vinyl-2-pyrrolidone) coreâ€“shell nanofibers loaded by multi-walled carbon nanotubes and 5-fluorouracil: an anticancer drug delivery system. Journal of Materials Science, 2020, 55, 10185-10201.	3.7	24
22	Antifungal Activity of Eugenol Loaded Electrospun PAN Nanofiber Mats Against Candida Albicans. Current Drug Delivery, 2018, 15, 860-866.	1.6	22
23	Morphology and electrochemical and mechanical properties of polyethyleneâ€oxideâ€based nanofibrous electrolytes applicable in lithium ion batteries. Polymer International, 2019, 68, 746-754.	3.1	21
24	Optimization of acrylic dry spinning production line by using artificial neural network and genetic algorithm. Journal of Applied Polymer Science, 2011, 120, 735-744.	2.6	20
25	Highly conductive Faradaic artificial muscle based on nanostructured polypyrrole-bis(trifluoromethylsulfonyl)imide synthesized onto electrospun polyurethane nanofibers. Sensors and Actuators B: Chemical, 2019, 297, 126736.	7.8	19
26	Biocompatible grapheneâ€embedded <scp>PCL</scp>/<scp>PGS</scp>â€based nanofibrous scaffolds: A potential application for cardiac tissue regeneration. Journal of Applied Polymer Science, 2021, 138, 51177.	2.6	19
27	Fabrication and characterization of<scp>chitosanâ€gelatin</scp>/<scp>singleâ€walled</scp>carbon nanotubes electrospun composite scaffolds for cartilage tissue engineering applications. Polymers for Advanced Technologies, 2022, 33, 81-95.	3.2	19
28	Improvement of intelligent methods for evaluating the apparent quality of knitted fabrics. Engineering Applications of Artificial Intelligence, 2010, 23, 217-221.	8.1	18
29	Development of Electro-Spun Poly (Vinyl Alcohol)/Titanium Dioxide Membrane-Based Polymer Electrolytes for Lithium-Ion Batteries. International Journal of Polymeric Materials and Polymeric Biomaterials, 2014, 63, 161-171.	3.4	18
30	Investigating the performance of drug delivery system of fluconazole made of nanoâ€“micro fibers coated on cotton/polyester fabric. Journal of Materials Science: Materials in Medicine, 2017, 28, 175.	3.6	18
31	PCL nanofibers loaded with beta-carotene: a novel treatment for eczema. Polymer Bulletin, 2018, 75, 2015-2026.	3.3	18
32	Designing a novel and versatile multi-layered nanofibrous structure loaded with MTX and 5-FU for the targeted delivery of anticancer drugs. Polymer Degradation and Stability, 2020, 179, 109275.	5.8	18
33	Electrospun Polyethylene Oxide-Based Membranes Incorporated with Silicon Dioxide, Aluminum Oxide and Clay Nanoparticles as Flexible Solvent-Free Electrolytes for Lithium-Ion Batteries. Jom, 2019, 71, 4537-4546.	1.9	17
34	Comparing the drug loading and release of silica aerogel and PVA nano fibers. Journal of Non-Crystalline Solids, 2019, 503-504, 186-193.	3.1	17
35	Grading of Yarn Appearance Using Image Analysis and an Artificial Intelligence Technique. Textile Reseach Journal, 2006, 76, 187-196.	2.2	16
36	Evaluation of structural, mechanical, and cellular behavior of electrospun poly-3-hydroxybutyrate scaffolds loaded with glucosamine sulfate to develop cartilage tissue engineering. International Journal of Polymeric Materials and Polymeric Biomaterials, 2017, 66, 589-602.	3.4	16

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37	Core-shell nanofibers of poly (Îµâ€“caprolactone) and Polyvinylpyrrolidone for drug delivery system. Materials Research Express, 2019, 6, 115015.	1.6	16
38	Electrospun <scp>PGS</scp>/<scp>PCL</scp> nanofibers: From straight to sponge and <scp>springâ€like</scp> morphology. Polymers for Advanced Technologies, 2020, 31, 3134-3149.	3.2	16
39	Study on the electrochromic properties of polypyrrole layers doped with different dye molecules. Journal of Electroanalytical Chemistry, 2021, 886, 115113.	3.8	16
40	A novel method for the determination of cell infiltration into nanofiber scaffolds using image analysis for tissue engineering applications. Journal of Applied Polymer Science, 2009, 111, 317-322.	2.6	15
41	Nanofibrous Tubular Membrane for Blood Hemodialysis. Applied Biochemistry and Biotechnology, 2018, 186, 443-458.	2.9	15
42	Electrochromic Self-Electrostabilized Polypyrrole Films Doped with Surfactant and Azo Dye. Polymers, 2019, 11, 1757.	4.5	14
43	Electrospun polyvinylidene pyrolidone/gelatin membrane impregnated with silver sulfadiazine as wound dressing for burn treatment. Bulletin of Materials Science, 2018, 41, 1.	1.7	13
44	PVDF/TiO₂/graphene oxide composite nanofiber membranes serving as separators in lithiumâ€ion batteries. Journal of Applied Polymer Science, 2020, 137, 48775.	2.6	13
45	Comparison of the antifungal activity of fluconazole- and ketoconazole-loaded PCL/PVP nanofibrous mat. Bulletin of Materials Science, 2021, 44, 1.	1.7	13
46	Optimization of fiber distribution in spunbond non-woven structure. Fibers and Polymers, 2011, 12, 821-829.	2.1	12
47	Gaining insight into electrolyte solution effects on the electrochemomechanical behavior of electroactive PU/PPy nanofibers: Introducing a high-performance artificial muscle. Sensors and Actuators B: Chemical, 2020, 305, 127519.	7.8	12
48	Novel electrospun polymer electrolytes incorporated with Kegginātype hetero polyoxometalate fillers as solventâfree electrolytes for lithium ion batteries. Polymer International, 2020, 69, 675-687.	3.1	12
49	Electroactive actuator based on polyurethane nanofibers coated with polypyrrole through electrochemical polymerization: a competent method for developing artificial muscles. Smart Materials and Structures, 2020, 29, 045008.	3.5	12
50	A comparative analysis on the morphology and electrochemical performances of solution-casted and electrospun PEO-based electrolytes: The effect of fiber diameter and surface density. Electrochimica Acta, 2021, 368, 137339.	5.2	12
51	Application of intelligent neural network method for prediction of mechanical behavior of wire-rope scaffold in tissue engineering. Journal of the Textile Institute, 2014, 105, 264-274.	1.9	11
52	An investigation on polycaprolactone/chitosan/Fe₃O₄ nanofibrous composite used for hyperthermia. Polymers for Advanced Technologies, 2019, 30, 2729-2741.	3.2	11
53	Electrospun coreâ€shell nanofibers based on polyethylene oxide reinforced by multiwalled carbon nanotube and silicon dioxide nanofillers: A novel and effective solventâfree electrolyte for lithium ion batteries. International Journal of Energy Research, 2020, 44, 7000-7014.	4.5	11
54	Polycaprolactoneâ€“Gelatin Membranes in Controlled Drug Delivery of 5-Fluorouracil. Polymer Science - Series A, 2020, 62, 636-647.	1.0	11

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55	Novel multi-layer silica aerogel/PVA composite for controlled drug delivery. Materials Research Express, 2019, 6, 095408.	1.6	10
56	Improved performance of Bis-GMA dental composites reinforced with surface-modified PAN nanofibers. Journal of Materials Science: Materials in Medicine, 2021, 32, 82.	3.6	10
57	Systematic investigation of parameters of an electrospinning process of poly(acrylic acid) nanofibres using response surface methodology. Bulletin of Materials Science, 2019, 42, 1.	1.7	9
58	Investigation of electroactive behavior of PVA/TiO₂ nanofibers webs coated with polyaniline. Journal of Composite Materials, 2016, 50, 1321-1330.	2.4	8
59	Overcoming the potential drop in conducting polymer artificial muscles through metallization of electrospun nanofibers by electroplating process. Smart Materials and Structures, 2020, 29, 085036.	3.5	8
60	5FU-loaded PCL/Chitosan/Fe₃O₄ Core-Shell Nanofibers Structure: An Approach to Multi-Mode Anticancer System. Advanced Pharmaceutical Bulletin, 2022, 12, 568-582.	1.4	8
61	Moisture and heat transfer in hybrid weft knitted fabric with artificial intelligence. Journal of Applied Polymer Science, 2009, 114, 1731-1737.	2.6	7
62	Antibacterial performance of nano polypropylene filter media containing nano-TiO2 and clay particles. Journal of Nanoparticle Research, 2015, 17, 1.	1.9	7
63	Manufacturing and Optimization the Nanofibres Tissue of Poly(N-vinyl-2-pyrrolidone) - Poly(e-caprolactone) Shell/Poly(N-vinyl-2-pyrrolidone)-Amphotericin B Core for Controlled Drug Release System. Fibers and Polymers, 2018, 19, 620-626.	2.1	7
64	Assessing the physical and mechanical properties of poly 3â€hydroxybutyrateâ€chitosanâ€multiâ€walled carbon nanotube/silk nanoâ€“micro composite scaffold for longâ€term healing tissue engineering applications. Micro and Nano Letters, 2018, 13, 829-834.	1.3	7
65	Jacquard pattern optimizing in weft knitted fabrics via interactive genetic algorithm. Fashion and Textiles, 2014, 1, .	2.4	6
66	Silk Fibroin Nano-Coated Textured Silk Yarn by Electrospinning Method for Tendon and Ligament Scaffold Application. Nano Hybrids, 0, 7, 35-51.	0.3	6
67	Optimizing the mechanical properties of a bi-layered knitted/nanofibrous esophageal prosthesis using artificial intelligence. E-Polymers, 2016, 16, 359-371.	3.0	6
68	Fabrication of hollow nanofibrous structures using a triple layering method for vascular scaffold applications. Fibers and Polymers, 2017, 18, 2342-2348.	2.1	6
69	Evaluation of polyacrylonitrile electrospun nanoâ€fibrous mats as leukocyte removal filter media. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 1759-1769.	3.4	6
70	Development of an Electrospun Scaffold for Retinal Tissue Engineering. Polymer Science - Series B, 2020, 62, 290-298.	0.8	6
71	Mechanical properties of polypropylene/glass weft knitted composites hot pressed in various structures and contents. Science and Engineering of Composite Materials, 2013, 20, 67-73.	1.4	5
72	Imparting strength into nanofiberous yarn by adhesive bonding. International Journal of Adhesion and Adhesives, 2017, 75, 96-100.	2.9	5

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73	A composite polyaniline/grapheneâ€“coated polyamide6 nanofiber mat for electrochemical applications. Polymers for Advanced Technologies, 2019, 30, 2819-2826.	3.2	5
74	Fabrication and characterization of hollow electrospun PLA structure through a modified electrospinning method applicable as vascular graft. Bulletin of Materials Science, 2021, 44, 1.	1.7	5
75	A novel model of optimum nanofibre distribution in nanofibre scaffold structure by genetic algorithm method. Journal of Experimental Nanoscience, 2014, 9, 966-981.	2.4	4
76	Electrochemical properties of bi-component bundle of coaxial polyacrylonitrile/ polyaniline nanofibers containing TiO₂nanoparticles. Journal of Composite Materials, 2017, 51, 3355-3363.	2.4	4
77	Modeling the compliance of polyurethane nanofiber tubes for artificial common bile duct. Materials Research Express, 2018, 5, 025004.	1.6	4
78	Electroâ€conductive nanofibrous structure based on <scp>PGS</scp>/<scp>PCL</scp> coated with <scp>PPy</scp> by in situ chemical polymerization applicable as cardiac patch: Fabrication and optimization. Journal of Applied Polymer Science, 2022, 139, .	2.6	4
79	Improving the Mechanical Properties of Wire-Rope Silk Scaffold by Artificial Neural Network in Tendon and Ligament Tissue Engineering. Journal of Engineered Fibers and Fabrics, 2015, 10, 155892501501000.	1.0	3
80	Meso modeling of silk wire rope scaffolds in tissue engineering. Journal of Industrial Textiles, 2017, 47, 377-389.	2.4	3
81	The effect of electrospinning parameters on the compliance behavior of electrospun polyurethane tube for artificial common bile duct. Polymer Science - Series A, 2017, 59, 67-75.	1.0	3
82	High flux nanofibrous membranes for colored effluent treatment. Water and Environment Journal, 2020, 34, 274-283.	2.2	3
83	Using analytical hierarchy process to optimize mechanical properties of multi-twisted buckled silk yarn as a collagenous tissue scaffold. Journal of the Textile Institute, 2022, 113, 460-466.	1.9	3
84	Effects of Processing Variables on the Mechanical Behavior of Thermoplastic Polypropylene/Glass Composite Reinforced with Weft-knitted Fabric with Various Layups. Fibers and Polymers, 2021, 22, 2006-2017.	2.1	3
85	A generalized method of measuring the Poisson's ratio of warp knitted fabrics under uniaxial loading based on image processing technique. Journal of the Textile Institute, 2022, 113, 70-79.	1.9	3
86	Manufacturing and characterizing of the poly (Îµ-caprolactone)/poly (N-vinyl-2-pyrrolidone) core-shell nanofibers loaded by multi-walled carbon nanotubes coated by polypyrrole via vapor phase and chemical method and its application as an electro-responsive anticancer drug delivery system. International Journal of Polymeric Materials and Polymeric Biomaterials, 2023, 72, 1009-1020.	3.4	3
87	Characterizing a novel method for blending regenerated cellulose structures with polyester filaments. Journal of Applied Polymer Science, 2013, 128, 3263-3270.	2.6	2
88	Electrospinning of aligned medical grade polyurethane nanofibres and evaluation of cellâ€“scaffold interaction using SHED stem cells. Micro and Nano Letters, 2017, 12, 412-417.	1.3	2
89	An investigation on quilled nozzle-less electrospinning in comparison with conventional methods for producing PAN nanofibers. Fashion and Textiles, 2018, 5, .	2.4	2
90	Application of electrospun fibers for the fabrication of high performance all-solid-state fibrous batteries. , 2021, , 229-244.		2

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91	Characterization of Silk/Poly 3-Hydroxybutyrate-chitosan-multi-walled Carbon Nanotube Micro-nano Scaffold: A New Hybrid Scaffold for Tissue Engineering Applications. Journal of Medical Signals and Sensors, 2018, 8, 46-52.	1.0	2
92	Wrinkled fabric appearance in uniform waveform by hybrid yarns. Journal of the Textile Institute, 2008, 99, 89-92.	1.9	1
93	Structural characterization of electrospun scaffolds by image analysis techniques. , 2012, , .		1
94	Modeling of Ionic Conductivity Enhancement of LiClO4-PVA-C System by TiO2 Addition Using Complex Numerical Model of PDE. Journal of Materials Engineering and Performance, 2013, 22, 3639-3646.	2.5	1
95	Optimizing the impact resistance of high tenacity Nylon 66 weft knitted fabrics via genetic algorithm. Fashion and Textiles, 2016, 3, .	2.4	1
96	Rheological modeling of tubular weft knitted textiles. Journal of the Textile Institute, 2018, 109, 990-999.	1.9	1
97	Simulation and characterization of the mechanical properties of knitted esophageal stents using finite element and mathematical models. Journal of Industrial Textiles, 2020, , 152808372094541.	2.4	1
98	A Novel Rotating Ring Collector for Electro-spinning of Nanofibers in Uniform Distribution. Current Nanoscience, 2013, 9, 812-817.	1.2	1
99	Prediction and Control of Wrinkles on Fabric Via Wavelet Analysis and Neural Networks. Research Journal of Textile and Apparel, 2014, 18, 15-25.	1.1	0
100	Estimation of Mechanical Properties of PAN Nanofibers Based on Polymeric Structural Characteristics by Artificial Intelligence Modeling. Nanoscience and Nanotechnology - Asia, 2018, 8, .	0.7	0
101	Electrochemical nanofibers. , 2021, , 335-369.		0
102	Fabrication and Characterization of the Electrospun Polyvinyl Alcohol Nanofibers Incorporated with the Extracted Fruit Peel Pectin and Zinc Oxide Nanoparticles. Materials Performance and Characterization, 2021, 10, 819-829.	0.3	0