Seon Jeong Kim

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Artificial Muscles from Fishing Line and Sewing Thread. Science, 2014, 343, 868-872.	12.6	1,006
2	Electrically, Chemically, and Photonically Powered Torsional and Tensile Actuation of Hybrid Carbon Nanotube Yarn Muscles. Science, 2012, 338, 928-932.	12.6	585
3	Torsional Carbon Nanotube Artificial Muscles. Science, 2011, 334, 494-497.	12.6	495
4	Ultrafast charge and discharge biscrolled yarn supercapacitors for textiles and microdevices. Nature Communications, 2013, 4, 1970.	12.8	475
5	Three-dimensionally bonded spongy graphene material with super compressive elasticity and near-zero Poisson's ratio. Nature Communications, 2015, 6, 6141.	12.8	458
6	Elastomeric Conductive Composites Based on Carbon Nanotube Forests. Advanced Materials, 2010, 22, 2663-2667.	21.0	367
7	Synergistic toughening of composite fibres by self-alignment of reduced graphene oxide and carbon nanotubes. Nature Communications, 2012, 3, 650.	12.8	354
8	Flexible Supercapacitor Made of Carbon Nanotube Yarn with Internal Pores. Advanced Materials, 2014, 26, 2059-2065.	21.0	345
9	Harvesting electrical energy from carbon nanotube yarn twist. Science, 2017, 357, 773-778.	12.6	306
10	Synthesis and characteristics of interpenetrating polymer network hydrogel composed of chitosan and poly(acrylic acid). Journal of Applied Polymer Science, 1999, 73, 113-120.	2.6	259
11	Stretchable, Weavable Coiled Carbon Nanotube/MnO2/Polymer Fiber Solid-State Supercapacitors. Scientific Reports, 2015, 5, 9387.	3.3	220
12	Sheath-run artificial muscles. Science, 2019, 365, 150-155.	12.6	218
13	Rapid temperature/pH response of porous alginate-g-poly(N-isopropylacrylamide) hydrogels. Polymer, 2002, 43, 7549-7558.	3.8	209
14	Swelling behavior of interpenetrating polymer network hydrogels composed of poly(vinyl alcohol) and chitosan. Reactive and Functional Polymers, 2003, 55, 53-59.	4.1	209
15	Twistable and Stretchable Sandwich Structured Fiber for Wearable Sensors and Supercapacitors. Nano Letters, 2016, 16, 7677-7684.	9.1	202
16	Thermo- and pH-responsive behaviors of graft copolymer and blend based on chitosan and N-isopropylacrylamide. Journal of Applied Polymer Science, 2000, 78, 1381-1391.	2.6	201
17	Nanocomposite Hydrogel with High Toughness for Bioactuators. Advanced Materials, 2009, 21, 1712-1715.	21.0	197
18	Woven‥arn Thermoelectric Textiles. Advanced Materials, 2016, 28, 5038-5044.	21.0	195

#	Article	IF	CITATIONS
19	Elastomeric and Dynamic MnO ₂ /CNT Core–Shell Structure Coiled Yarn Supercapacitor. Advanced Energy Materials, 2016, 6, 1502119.	19.5	192
20	pH/temperature-responsive semi-IPN hydrogels composed of alginate and poly(N-isopropylacrylamide). Journal of Applied Polymer Science, 2002, 83, 1128-1139.	2.6	187
21	Carbon Nanotube Yarn for Fiberâ€6haped Electrical Sensors, Actuators, and Energy Storage for Smart Systems. Advanced Materials, 2020, 32, e1902670.	21.0	165
22	High-power biofuel cell textiles from woven biscrolled carbon nanotube yarns. Nature Communications, 2014, 5, 3928.	12.8	147
23	Improvement of system capacitance via weavable superelastic biscrolled yarn supercapacitors. Nature Communications, 2016, 7, 13811.	12.8	146
24	Electrochemical actuation in chitosan/polyaniline microfibers for artificial muscles fabricated using an in situ polymerization. Sensors and Actuators B: Chemical, 2008, 129, 834-840.	7.8	137
25	Suppression of transient receptor potential melastatin 7 channel induces cell death in gastric cancer. Cancer Science, 2008, 99, 2502-2509.	3.9	120
26	Hybrid carbon nanotube yarn artificial muscle inspired by spider dragline silk. Nature Communications, 2014, 5, 3322.	12.8	120
27	Mechanical properties of chitosan/CNT microfibers obtained with improved dispersion. Sensors and Actuators B: Chemical, 2006, 115, 678-684.	7.8	116
28	Stretchable Triboelectric Fiber for Self-powered Kinematic Sensing Textile. Scientific Reports, 2016, 6, 35153.	3.3	111
29	Electrochemically Powered, Energyâ€Conserving Carbon Nanotube Artificial Muscles. Advanced Materials, 2017, 29, 1700870.	21.0	110
30	Unipolar stroke, electroosmotic pump carbon nanotube yarn muscles. Science, 2021, 371, 494-498.	12.6	110
31	Microscopically Buckled and Macroscopically Coiled Fibers for Ultra‧tretchable Supercapacitors. Advanced Energy Materials, 2017, 7, 1602021.	19.5	106
32	Biomolecule based fiber supercapacitor for implantable device. Nano Energy, 2018, 47, 385-392.	16.0	103
33	Temperature/pH-sensitive comb-type graft hydrogels composed of chitosan and poly(N-isopropylacrylamide). Journal of Applied Polymer Science, 2004, 92, 2612-2620.	2.6	102
34	All-Solid-State Carbon Nanotube Torsional and Tensile Artificial Muscles. Nano Letters, 2014, 14, 2664-2669.	9.1	101
35	Size-dependent elastic modulus of single electroactive polymer nanofibers. Applied Physics Letters, 2006, 89, 231929.	3.3	98

 $_{36}$ Synthesis and characteristics of interpenetrating polymer network hydrogels composed of poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf $_{4.1}^{36}$

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37	DNAâ€Wrapped Singleâ€Walled Carbon Nanotube Hybrid Fibers for supercapacitors and Artificial Muscles. Advanced Materials, 2008, 20, 466-470.	21.0	90
38	Electric stimuli responses to poly(vinyl alcohol)/chitosan interpenetrating polymer network hydrogel in NaCl solutions. Journal of Applied Polymer Science, 2002, 86, 2285-2289.	2.6	88
39	Flexible, stretchable and weavable piezoelectric fiber. Advanced Engineering Materials, 2015, 17, 1270-1275.	3.5	84
40	Hybrid Nanomembranes for High Power and High Energy Density Supercapacitors and Their Yarn Application. ACS Nano, 2012, 6, 327-334.	14.6	83
41	Electrical/pH-sensitive swelling behavior of polyelectrolyte hydrogels prepared with hyaluronic acid–poly(vinyl alcohol) interpenetrating polymer networks. Reactive and Functional Polymers, 2003, 55, 291-298.	4.1	82
42	Self-Oscillatory Actuation at Constant DC Voltage with pH-Sensitive Chitosan/Polyaniline Hydrogel Blend. Chemistry of Materials, 2006, 18, 5805-5809.	6.7	81
43	Clinical characteristics of <i>TIMP2</i> , <i>MMP2</i> , and <i>MMP9</i> gene polymorphisms in colorectal cancer. Journal of Gastroenterology and Hepatology (Australia), 2011, 26, 391-397.	2.8	81
44	Enhanced conductivity of aligned PANi/PEO/MWNT nanofibers by electrospinning. Sensors and Actuators B: Chemical, 2008, 134, 122-126.	7.8	79
45	A Linear Actuation of Polymeric Nanofibrous Bundle for Artificial Muscles. Chemistry of Materials, 2009, 21, 511-515.	6.7	79
46	Thermal characteristics of chitin and hydroxypropyl chitin. Polymer, 1994, 35, 3212-3216.	3.8	76
47	A novel "dual mode―actuation in chitosan/polyaniline/carbon nanotube fibers. Sensors and Actuators B: Chemical, 2007, 121, 616-621.	7.8	70
48	Permeation of solutes through interpenetrating polymer network hydrogels composed of poly(vinyl) Tj ETQq0 () 0 rgBT /O	verlock 10 Tf
49	Bio-inspired, Moisture-Powered Hybrid Carbon Nanotube Yarn Muscles. Scientific Reports, 2016, 6, 23016.	3.3	66
50	pH-Dependent Structures of an i-Motif DNA in Solution. Journal of Physical Chemistry B, 2009, 113, 1852-1856.	2.6	64
51	Behavior in electric fields of smart hydrogels with potential application as bio-inspired actuators. Smart Materials and Structures, 2005, 14, 511-514.	3.5	62
52	Hydrogel-Assisted Polyaniline Microfiber as Controllable Electrochemical Actuatable Supercapacitor. Journal of the Electrochemical Society, 2009, 156, A313.	2.9	61
53	Self-healing graphene oxide-based composite for electromagnetic interference shielding. Carbon, 2019, 155, 499-505.	10.3	60
54	Transient Receptor Potential Melastatin 7 Channels are Involved in Ginsenoside Rg3-Induced Apoptosis in Gastric Cancer Cells. Basic and Clinical Pharmacology and Toxicology, 2011, 109, 233-239.	2.5	59

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55	Swelling characterizations of chitosan and polyacrylonitrile semi-interpenetrating polymer network hydrogels. Journal of Applied Polymer Science, 2003, 87, 2011-2015.	2.6	58
56	Properties of smart hydrogels composed of polyacrylic acid/poly(vinyl sulfonic acid) responsive to external stimuli. Smart Materials and Structures, 2004, 13, 317-322.	3.5	58
57	Thermal characteristics of poly(vinyl alcohol) and poly(vinylpyrrolidone) IPNs. Journal of Applied Polymer Science, 2002, 86, 1844-1847.	2.6	57
58	Synthesis and characteristics of a semi-interpenetrating polymer network based on chitosan/polyaniline under different pH conditions. Journal of Applied Polymer Science, 2005, 96, 867-873.	2.6	57
59	Harvesting temperature fluctuations as electrical energy using torsional and tensile polymer muscles. Energy and Environmental Science, 2015, 8, 3336-3344.	30.8	57
60	Effect of ionic salts on the processing of poly(2-acrylamido-2-methyl-1-propane sulfonic acid) nanofibers. Journal of Applied Polymer Science, 2005, 96, 1388-1393.	2.6	56
61	Electromechanical properties of hydrogels based on chitosan and poly(hydroxyethyl methacrylate) in NaCl solution. Smart Materials and Structures, 2004, 13, 1036-1039.	3.5	55
62	Electrodeposition of α-MnO2/γ-MnO2 on Carbon Nanotube for Yarn Supercapacitor. Scientific Reports, 2019, 9, 11271.	3.3	55
63	Bending behavior of hydrogels composed of poly(methacrylic acid) and alginate by electrical stimulus. Polymer International, 2004, 53, 1456-1460.	3.1	54
64	Surprising shrinkage of expanding gels under an external load. Nature Materials, 2006, 5, 48-51.	27.5	54
65	Electrical response characterization of chitosan/polyacrylonitrile hydrogel in NaCl solutions. Journal of Applied Polymer Science, 2003, 90, 91-96.	2.6	53
66	DNA Hydrogel Fiber with Selfâ€Entanglement Prepared by Using an Ionic Liquid. Angewandte Chemie - International Edition, 2008, 47, 2470-2474.	13.8	53
67	Electrical/pH responsive properties of poly(2-acrylamido-2-methylpropane sulfonic acid)/hyaluronic acid hydrogels. Journal of Applied Polymer Science, 2004, 92, 1731-1736.	2.6	52
68	Electroactive characteristics of interpenetrating polymer network hydrogels composed of poly(vinyl) Tj ETQq0 (0 rgBT /0	verlock 10 Tf
69	Characterization of the water state of hyaluronic acid and poly(vinyl alcohol) interpenetrating polymer networks. Journal of Applied Polymer Science, 2004, 92, 1467-1472.	2.6	51
70	Electrical behavior of polymer hydrogel composed of poly(vinyl alcohol)–hyaluronic acid in solution. Biosensors and Bioelectronics, 2004, 19, 531-536.	10.1	50
71	Carbon Nanotube Yarnâ€Based Glucose Sensing Artificial Muscle. Small, 2016, 12, 2085-2091	10.0	50
72	Electrochemical graphene/carbon nanotube yarn artificial muscles. Sensors and Actuators B:	7.8	50

Chemical, 2019, 286, 237-242.

7.8 50

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73	Synthesis and characteristics of interpenetrating polymer network hydrogels composed of alginate and poly(diallydimethylammonium chloride). Journal of Applied Polymer Science, 2004, 91, 3705-3709.	2.6	48
74	Fullerene Attachment Enhances Performance of a DNA Nanomachine. Advanced Materials, 2009, 21, 1907-1910.	21.0	48
75	Alternative Nanostructures for Thermophones. ACS Nano, 2015, 9, 4743-4756.	14.6	48
76	Controlled assembly of polymer nanofibers: From helical springs to fully extended. Applied Physics Letters, 2006, 88, 223109.	3.3	47
77	Electrical sensitive behavior of poly(vinyl alcohol)/poly (diallyldimethylammonium chloride) IPN hydrogel. Sensors and Actuators B: Chemical, 2003, 88, 286-291.	7.8	46
78	Electrical sensitivity behavior of a hydrogel composed of polymethacrylic acid/poly(vinyl alcohol). Journal of Applied Polymer Science, 2004, 91, 3613-3617.	2.6	46
79	Direct fabrication of twisted nanofibers by electrospinning. Applied Physics Letters, 2007, 90, .	3.3	46
80	Delaminated Tears of the Rotator Cuff: Prevalence, Characteristics, and Diagnostic Accuracy Using Indirect MR Arthrography. American Journal of Roentgenology, 2015, 204, 360-366.	2.2	46
81	Biothermal sensing of a torsional artificial muscle. Nanoscale, 2016, 8, 3248-3253.	5.6	46
82	Swelling characterization of the semiinterpenetrating polymer network hydrogels composed of chitosan and poly(diallyldimethylammonium chloride). Journal of Applied Polymer Science, 2004, 91, 2876-2880.	2.6	45
83	Highly loaded MXene/carbon nanotube yarn electrodes for improved asymmetric supercapacitor performance. MRS Communications, 2019, 9, 114-121.	1.8	45
84	Wearable Energy Generating and Storing Textile Based on Carbon Nanotube Yarns. Advanced Functional Materials, 2020, 30, 2000411.	14.9	45
85	Electrical sensitive behavior of a polyelectrolyte complex composed of chitosan/hyaluronic acid. Solid State Ionics, 2003, 164, 199-204.	2.7	44
86	Swelling Behavior of Chitosan Hydrogels in Ionic Liquidâ^'Water Binary Systems. Langmuir, 2006, 22, 9375-9379.	3.5	44
87	Controlled Magnetic Nanofiber Hydrogels by Clustering Ferritin. Langmuir, 2008, 24, 12107-12111.	3.5	44
88	A nanofibrous hydrogel templated electrochemical actuator: From single mat to a rolled-up structure. Sensors and Actuators B: Chemical, 2009, 136, 438-443.	7.8	44
89	Single-Layer Graphene-Based Transparent and Flexible Multifunctional Electronics for Self-Charging Power and Touch-Sensing Systems. ACS Applied Materials & Interfaces, 2019, 11, 9301-9308.	8.0	44
90	The influence of added ionic salt on nanofiber uniformity for electrospinning of electrolyte polymer. Synthetic Metals, 2005, 154, 209-212.	3.9	43

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91	The role of transient receptor potential channel blockers in human gastric cancer cell viability. Canadian Journal of Physiology and Pharmacology, 2012, 90, 175-186.	1.4	43
92	Weavable asymmetric carbon nanotube yarn supercapacitor for electronic textiles. RSC Advances, 2018, 8, 13112-13120.	3.6	43
93	Characteristics of electrical responsive alginate/poly(diallyldimethylammonium chloride) IPN hydrogel in HCl solutions. Sensors and Actuators B: Chemical, 2003, 96, 1-5.	7.8	41
94	Synthesis and characteristics of the interpenetrating polymer network hydrogel composed of chitosan and polyallylamine. Journal of Applied Polymer Science, 2002, 86, 498-503.	2.6	40
95	Electrochemical behavior of an interpenetrating polymer network hydrogel composed of poly(propylene glycol) and poly(acrylic acid). Journal of Applied Polymer Science, 2003, 89, 2301-2305.	2.6	38
96	Reinforcement of polymeric nanofibers by ferritin nanoparticles. Applied Physics Letters, 2006, 88, 193901.	3.3	38
97	Tough Supersoft Sponge Fibers with Tunable Stiffness from a DNA Selfâ€Assembly Technique. Angewandte Chemie - International Edition, 2009, 48, 5116-5120.	13.8	37
98	Stretchable Fiber Biofuel Cell by Rewrapping Multiwalled Carbon Nanotube Sheets. Nano Letters, 2018, 18, 5272-5278.	9.1	37
99	Self-Healing Electrode with High Electrical Conductivity and Mechanical Strength for Artificial Electronic Skin. ACS Applied Materials & amp; Interfaces, 2019, 11, 46026-46033.	8.0	37
100	Self-Powered Coiled Carbon-Nanotube Yarn Sensor for Gastric Electronics. ACS Sensors, 2019, 4, 2893-2899.	7.8	37
101	Self-Helical Fiber for Glucose-Responsive Artificial Muscle. ACS Applied Materials & Interfaces, 2020, 12, 20228-20233.	8.0	37
102	pH- and thermal characteristics of graft hydrogels based on chitosan and poly(dimethylsiloxane). Journal of Applied Polymer Science, 2002, 85, 2661-2666.	2.6	36
103	Synthesis of conducting polymer-intercalated vanadate nanofiber composites using a sonochemical method for high performance pseudocapacitor applications. Journal of Power Sources, 2019, 414, 460-469.	7.8	36
104	Synthesis of conducting polyaniline in semi-IPN based on chitosan. Synthetic Metals, 2005, 154, 213-216.	3.9	35
105	Thermally Responsive Torsional and Tensile Fiber Actuator Based on Graphene Oxide. ACS Applied Materials & Interfaces, 2018, 10, 32760-32764.	8.0	35
106	Swelling behavior of polyelectrolyte complex hydrogels composed of chitosan and hyaluronic acid. Journal of Applied Polymer Science, 2004, 93, 1097-1101.	2.6	34
107	Ag/MnO2 Composite Sheath-Core Structured Yarn Supercapacitors. Scientific Reports, 2018, 8, 13309.	3.3	34
108	Biscrolled Carbon Nanotube Yarn Structured Silver-Zinc Battery. Scientific Reports, 2018, 8, 11150.	3.3	34

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109	Enhancing the Work Capacity of Electrochemical Artificial Muscles by Coiling Plies of Twist-Released Carbon Nanotube Yarns. ACS Applied Materials & Interfaces, 2019, 11, 13533-13537.	8.0	34
110	Involvement of Phosphatidylinositol 4,5-Bisphosphate in the Desensitization of Canonical Transient Receptor Potential 5. Biological and Pharmaceutical Bulletin, 2008, 31, 1733-1738.	1.4	33
111	A conducting polymer/ferritin anode for biofuel cell applications. Electrochimica Acta, 2009, 54, 3979-3983.	5.2	33
112	Preparation and characterization of thermosensitive poly(N-isopropylacrylamide)/poly(ethylene oxide) semi-interpenetrating polymer networks. Journal of Applied Polymer Science, 2003, 90, 3032-3036.	2.6	32
113	Synthesis and characteristics of polyelectrolyte complexes composed of chitosan and hyaluronic acid. Journal of Applied Polymer Science, 2004, 91, 2908-2913.	2.6	32
114	Electrical behavior of chitosan and poly(hydroxyethyl methacrylate) hydrogel in the contact system. Journal of Applied Polymer Science, 2004, 92, 915-919.	2.6	31
115	Thermoresponsive hydrogels based on poly(N-isopropylacrylamide)/chondroitin sulfate. Sensors and Actuators B: Chemical, 2008, 135, 336-341.	7.8	31
116	Bio-inspired Hybrid Carbon Nanotube Muscles. Scientific Reports, 2016, 6, 26687.	3.3	31
117	Characterization of hydrogels based on chitosan and copolymer of poly(dimethylsiloxane) and poly(vinyl alcohol). Journal of Applied Polymer Science, 2002, 84, 2591-2596.	2.6	30
118	Synthesis and characteristics of semi-interpenetrating polymer network hydrogels based on chitosan and poly(hydroxy ethyl methacrylate). Journal of Applied Polymer Science, 2005, 96, 86-92.	2.6	30
119	Poncirus trifoliate fruit modulates pacemaker activity in interstitial cells of Cajal from the murine small intestine. Journal of Ethnopharmacology, 2013, 149, 668-675.	4.1	30
120	Identifcation of TRPM7 channels in human intestinalinterstitial cells of Cajal. World Journal of Gastroenterology, 2009, 15, 5799.	3.3	30
121	Shape change characteristics of polymer hydrogel based on polyacrylic acid/poly(vinyl sulfonic acid) in electric fields. Sensors and Actuators A: Physical, 2004, 115, 146-150.	4.1	29
122	High-strength graphene and polyacrylonitrile composite fiber enhanced by surface coating with polydopamine. Composites Science and Technology, 2017, 149, 280-285.	7.8	29
123	Swollen behavior of crosslinked network hydrogels based on poly(vinyl alcohol) and polydimethylsiloxane. Journal of Applied Polymer Science, 2002, 85, 957-964.	2.6	28
124	Enhanced actuation of PPy/CNT hybrid fibers using porous structured DNA hydrogel. Sensors and Actuators B: Chemical, 2010, 145, 89-92.	7.8	28
125	Swelling Kinetics of Interpenetrating Polymer Hydrogels Composed of Poly(Vinyl Alcohol)/Chitosan. Journal of Macromolecular Science - Pure and Applied Chemistry, 2003, 40, 501-510.	2.2	27
126	Electroactive polymer hydrogels composed of polyacrylic acid and poly(vinyl sulfonic acid) copolymer for application of biomaterial. Synthetic Metals, 2005, 155, 674-676.	3.9	27

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127	Implantable Biosupercapacitor Inspired by the Cellular Redox System. Angewandte Chemie - International Edition, 2021, 60, 10563-10567.	13.8	27
128	Molecular determinants of PKA-dependent inhibition of TRPC5 channel. American Journal of Physiology - Cell Physiology, 2011, 301, C823-C832.	4.6	26
129	Carbon nanotubes–elastomer actuator driven electrothermally by low-voltage. Nanoscale Advances, 2019, 1, 965-968.	4.6	26
130	Thermal characteristics of IPNs composed of polyallylamine and chitosan. Journal of Applied Polymer Science, 2002, 85, 1956-1960.	2.6	25
131	Swelling kinetics of modified poly(vinyl alcohol) hydrogels. Journal of Applied Polymer Science, 2003, 90, 3310-3313.	2.6	25
132	Triboelectric generator for wearable devices fabricated using a casting method. RSC Advances, 2016, 6, 10094-10098.	3.6	25
133	Swelling Behavior of Semiâ€Interpenetrating Polymer Network Hydrogels Based on Chitosan and Poly(acryl amide). Journal of Macromolecular Science - Pure and Applied Chemistry, 2005, 42, 1073-1083.	2.2	24
134	Sziklai's conjecture on the number of points of a plane curve over a finite field III. Finite Fields and Their Applications, 2010, 16, 315-319.	1.0	24
135	Positive feedback control between STIM1 and NFATc3 is required for C2C12 myoblast differentiation. Biochemical and Biophysical Research Communications, 2013, 430, 722-728.	2.1	24
136	Highly stretchable hybrid nanomembrane supercapacitors. RSC Advances, 2016, 6, 24756-24759.	3.6	24
137	Effect of C60 Fullerene on the Duplex Formation of i-Motif DNA with Complementary DNA in Solution. Journal of Physical Chemistry B, 2010, 114, 4783-4788.	2.6	23
138	Cubic Interval-Valued Intuitionistic Fuzzy Sets and Their Application in BCK/BCI-Algebras. Axioms, 2018, 7, 7.	1.9	23
139	Orthogonal pattern of spinnable multiwall carbon nanotubes for electromagnetic interference shielding effectiveness. Carbon, 2019, 152, 33-39.	10.3	23
140	Water behavior of poly(vinyl alcohol)/poly(vinylpyrrolidone) interpenetrating polymer network hydrogels. Journal of Applied Polymer Science, 2003, 89, 24-27.	2.6	22
141	Water sorption of poly(propylene glycol)/poly(acrylic acid) interpenetrating polymer network hydrogels. Reactive and Functional Polymers, 2003, 55, 69-73.	4.1	22
142	Enhancement of electromagnetic interference shielding effectiveness with alignment of spinnable multiwalled carbon nanotubes. Carbon, 2019, 142, 528-534.	10.3	22
143	Enhancement of the electromechanical behavior of IPMCs based on chitosan/polyaniline ion exchange membranes fabricated by freeze-drying. Smart Materials and Structures, 2005, 14, 889-894.	3.5	21
144	Effects of Transient Receptor Potential Channel Blockers on Pacemaker Activity in Interstitial Cells of Cajal from Mouse Small Intestine. Molecules and Cells, 2011, 32, 153-160.	2.6	21

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145	Comparison of localized retinal nerve fiber layer defects in highly myopic, myopic, and non-myopic patients with normal-tension glaucoma: a retrospective cross-sectional study. BMC Ophthalmology, 2013, 13, 67.	1.4	21
146	Free-standing nanocomposites with high conductivity and extensibility. Nanotechnology, 2013, 24, 165401.	2.6	21
147	Torsional behaviors of polymer-infiltrated carbon nanotube yarn muscles studied with atomic force microscopy. Nanoscale, 2015, 7, 2489-2496.	5.6	21
148	Stability of carbon nanotube yarn biofuel cell in human body fluid. Journal of Power Sources, 2015, 286, 103-108.	7.8	21
149	Synthesis and characterization of ether-type chitin derivatives. Macromolecular Chemistry and Physics, 1994, 195, 1687-1693.	2.2	20
150	Thermal characteristics of interpenetrating polymer networks composed of poly(vinyl alcohol) and poly(N-isopropylacrylamide). Journal of Applied Polymer Science, 2003, 90, 881-885.	2.6	20
151	The effect of electric current on the processing of nanofibers formed from poly(2-acrylamido-2-methyl-1-propane sulfonic acid). Scripta Materialia, 2004, 51, 31-35.	5.2	20
152	Around Sziklai's conjecture on the number of points of a plane curve over a finite field. Finite Fields and Their Applications, 2009, 15, 468-474.	1.0	20
153	Interval Neutrosophic Sets with Applications in BCK/BCI-Algebra. Axioms, 2018, 7, 23.	1.9	20
154	Bio-Inspired Stretchable and Contractible Tough Fiber by the Hybridization of GO/MWNT/Polyurethane. ACS Applied Materials & Interfaces, 2019, 11, 31162-31168.	8.0	20
155	Quasi-solid-state highly stretchable circular knitted MnO ₂ @CNT supercapacitor. RSC Advances, 2020, 10, 14007-14012.	3.6	20
156	More Powerful Twistron Carbon Nanotube Yarn Mechanical Energy Harvesters. Advanced Materials, 2022, 34, e2201826.	21.0	20
157	The fabrication of polyaniline/single-walled carbon nanotube fibers containing a highly-oriented filler. Nanotechnology, 2009, 20, 085701.	2.6	19
158	Mediator-free carbon nanotube yarn biofuel cell. RSC Advances, 2016, 6, 48346-48350.	3.6	19
159	Simple Artificial Neuron Using an Ovonic Threshold Switch Featuring Spike-Frequency Adaptation and Chaotic Activity. Physical Review Applied, 2020, 13, .	3.8	19
160	Electrical energy harvesting from ferritin biscrolled carbon nanotube yarn. Biosensors and Bioelectronics, 2020, 164, 112318.	10.1	19
161	Thermal Characteristics of Polyelectrolyte Complexes Composed of Chitosan and Hyaluronic Acid. Journal of Macromolecular Science - Pure and Applied Chemistry, 2003, 40, 807-815.	2.2	18
162	Synthesis and characterization of an interpenetrating polymer network composed of poly(methacrylic acid) and poly(vinyl alcohol). Polymer International, 2005, 54, 149-152.	3.1	18

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163	Molecular determinant of sensing extracellular pH in classical transient receptor potential channel 5. Biochemical and Biophysical Research Communications, 2008, 365, 239-245.	2.1	17
164	An elementary bound for the number of points of a hypersurface over a finite field. Finite Fields and Their Applications, 2013, 20, 76-83.	1.0	17
165	Magnetic torsional actuation of carbon nanotube yarn artificial muscle. RSC Advances, 2018, 8, 17421-17425.	3.6	17
166	Electrostimulus responsive behavior of poly(acrylic acid)/polyacrylonitrile semi-interpenetrating polymer network hydrogels. Journal of Applied Polymer Science, 2004, 92, 1473-1477.	2.6	16
167	Controlled Array of Ferritin in Tubular Nanostructure. Macromolecular Rapid Communications, 2008, 29, 552-556.	3.9	16
168	Electrochemical properties of SWNT/ferritin composite for bioapplications. Sensors and Actuators B: Chemical, 2008, 133, 393-397.	7.8	16
169	Temperature-Responsive Tensile Actuator Based on Multi-walled Carbon Nanotube Yarn. Nano-Micro Letters, 2016, 8, 254-259.	27.0	16
170	Optimum parameters for production of nanofibres based on poly(2-acrylamido-2-methyl-1-propane) Tj ETQq0 0 (⊃rgBJ /Ον	erlock 10 Tf 5
171	Role of calmodulin and myosin light chain kinase in the activation of carbachol-activated cationic current in murine ileal myocytes. Canadian Journal of Physiology and Pharmacology, 2007, 85, 1254-1262.	1.4	15
172	Electrically Contractile Polymers Augment Right Ventricular Output in the Heart. Artificial Organs, 2014, 38, 1034-1039.	1.9	15
173	Water and temperature response of semi-IPN hydrogels composed of chitosan and polyacrylonitrile. Journal of Applied Polymer Science, 2003, 88, 2721-2724.	2.6	14
174	Preparation and characteristics of poly(propylene glycol) and poly(acrylic acid) interpenetrating polymer network hydrogels. Journal of Applied Polymer Science, 2003, 90, 1384-1388.	2.6	14
175	Swelling and electroresponsive characteristics of interpenetrating polymer network hydrogels. Polymer International, 2005, 54, 1169-1174.	3.1	14
176	Controlled Nanofiber Composed of Multiâ€Wall Carbon Nanotube/Poly(Ethylene Oxide). Journal of Macromolecular Science - Pure and Applied Chemistry, 2006, 43, 785-796.	2.2	14
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