# Seon Jeong Kim

List of Publications by Year
in descending order

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|---|---|---|---|
| 277 papers | 14,479 citations | 28190 55 h-index | 24915 109 g-index |
| 280 all docs | 280 docs citations | 280 times ranked | 15444 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Artificial Muscles from Fishing Line and Sewing Thread. Science, 2014, 343, 868-872. | 6.0 | 1,006 |
| 2 | Electrically, Chemically, and Photonically Powered Torsional and Tensile Actuation of Hybrid Carbon Nanotube Yarn Muscles. Science, 2012, 338, 928-932. | 6.0 | 585 |
| 3 | Torsional Carbon Nanotube Artificial Muscles. Science, 2011, 334, 494-497. | 6.0 | 495 |
| 4 | Ultrafast charge and discharge biscrolled yarn supercapacitors for textiles and microdevices. Nature Communications, 2013, 4, 1970. | 5.8 | 475 |
| 5 | Three-dimensionally bonded spongy graphene material with super compressive elasticity and near-zero Poissonâ€™s ratio. Nature Communications, 2015, 6, 6141. | 5.8 | 458 |
| 6 | Elastomeric Conductive Composites Based on Carbon Nanotube Forests. Advanced Materials, 2010, 22, 2663-2667. | 11.1 | 367 |
| 7 | Synergistic toughening of composite fibres by self-alignment of reduced graphene oxide and carbon nanotubes. Nature Communications, 2012, 3, 650. | 5.8 | 354 |
| 8 | Flexible Supercapacitor Made of Carbon Nanotube Yarn with Internal Pores. Advanced Materials, 2014, 26, 2059-2065. | 11.1 | 345 |
| 9 | Harvesting electrical energy from carbon nanotube yarn twist. Science, 2017, 357, 773-778. | 6.0 | 306 |
| 10 | Synthesis and characteristics of interpenetrating polymer network hydrogel composed of chitosan and poly(acrylic acid). , 1999, 73, 113-120. | | 259 |
| 11 | Stretchable, Weavable Coiled Carbon Nanotube/MnO2/Polymer Fiber Solid-State Supercapacitors. Scientific Reports, 2015, 5, 9387. | 1.6 | 220 |
| 12 | Sheath-run artificial muscles. Science, 2019, 365, 150-155. | 6.0 | 218 |
| 13 | Rapid temperature/pH response of porous alginate-g-poly(N-isopropylacrylamide) hydrogels. Polymer, 2002, 43, 7549-7558. | 1.8 | 209 |
| 14 | Swelling behavior of interpenetrating polymer network hydrogels composed of poly(vinyl alcohol) and chitosan. Reactive and Functional Polymers, 2003, 55, 53-59. | 2.0 | 209 |
| 15 | Twistable and Stretchable Sandwich Structured Fiber for Wearable Sensors and Supercapacitors. Nano Letters, 2016, 16, 7677-7684. | 4.5 | 202 |
| 16 | Thermo- and pH-responsive behaviors of graft copolymer and blend based on chitosan andN-isopropylacrylamide. Journal of Applied Polymer Science, 2000, 78, 1381-1391. | 1.3 | 201 |
| 17 | Nanocomposite Hydrogel with High Toughness for Bioactuators. Advanced Materials, 2009, 21, 1712-1715. | 11.1 | 197 |
| 18 | Wovenâ€Yarn Thermoelectric Textiles. Advanced Materials, 2016, 28, 5038-5044. | 11.1 | 195 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Elastomeric and Dynamic MnO<sub>2</sub>/CNT Coreâ€“Shell Structure Coiled Yarn Supercapacitor. Advanced Energy Materials, 2016, 6, 1502119. | 10.2 | 192 |
| 20 | pH/temperature-responsive semi-IPN hydrogels composed of alginate and poly(N-isopropylacrylamide). Journal of Applied Polymer Science, 2002, 83, 1128-1139. | 1.3 | 187 |
| 21 | Carbon Nanotube Yarn for Fiberâ€Shaped Electrical Sensors, Actuators, and Energy Storage for Smart Systems. Advanced Materials, 2020, 32, e1902670. | 11.1 | 165 |
| 22 | High-power biofuel cell textiles from woven biscrolled carbon nanotube yarns. Nature Communications, 2014, 5, 3928. | 5.8 | 147 |
| 23 | Improvement of system capacitance via weavable superelastic biscrolled yarn supercapacitors. Nature Communications, 2016, 7, 13811. | 5.8 | 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. | 4.0 | 137 |
| 25 | Suppression of transient receptor potential melastatin 7 channel induces cell death in gastric cancer. Cancer Science, 2008, 99, 2502-2509. | 1.7 | 120 |
| 26 | Hybrid carbon nanotube yarn artificial muscle inspired by spider dragline silk. Nature Communications, 2014, 5, 3322. | 5.8 | 120 |
| 27 | Mechanical properties of chitosan/CNT microfibers obtained with improved dispersion. Sensors and Actuators B: Chemical, 2006, 115, 678-684. | 4.0 | 116 |
| 28 | Stretchable Triboelectric Fiber for Self-powered Kinematic Sensing Textile. Scientific Reports, 2016, 6, 35153. | 1.6 | 111 |
| 29 | Electrochemically Powered, Energyâ€Conserving Carbon Nanotube Artificial Muscles. Advanced Materials, 2017, 29, 1700870. | 11.1 | 110 |
| 30 | Unipolar stroke, electroosmotic pump carbon nanotube yarn muscles. Science, 2021, 371, 494-498. | 6.0 | 110 |
| 31 | Microscopically Buckled and Macroscopically Coiled Fibers for Ultraâ€Stretchable Supercapacitors. Advanced Energy Materials, 2017, 7, 1602021. | 10.2 | 106 |
| 32 | Biomolecule based fiber supercapacitor for implantable device. Nano Energy, 2018, 47, 385-392. | 8.2 | 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. | 1.3 | 102 |
| 34 | All-Solid-State Carbon Nanotube Torsional and Tensile Artificial Muscles. Nano Letters, 2014, 14, 2664-2669. | 4.5 | 101 |
| 35 | Size-dependent elastic modulus of single electroactive polymer nanofibers. Applied Physics Letters, 2006, 89, 231929. | 1.5 | 98 |
| 36 | Synthesis and characteristics of interpenetrating polymer network hydrogels composed of poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf | 2.0 | 93 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | DNAâ€Wrapped Singleâ€Walled Carbon Nanotube Hybrid Fibers for supercapacitors and Artificial Muscles. Advanced Materials, 2008, 20, 466-470. | 11.1 | 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. | 1.3 | 88 |
| 39 | Flexible, stretchable and weavable piezoelectric fiber. Advanced Engineering Materials, 2015, 17, 1270-1275. | 1.6 | 84 |
| 40 | Hybrid Nanomembranes for High Power and High Energy Density Supercapacitors and Their Yarn Application. ACS Nano, 2012, 6, 327-334. | 7.3 | 83 |
| 41 | Electrical/pH-sensitive swelling behavior of polyelectrolyte hydrogels prepared with hyaluronic acidâ€“poly(vinyl alcohol) interpenetrating polymer networks. Reactive and Functional Polymers, 2003, 55, 291-298. | 2.0 | 82 |
| 42 | Self-Oscillatory Actuation at Constant DC Voltage with pH-Sensitive Chitosan/Polyaniline Hydrogel Blend. Chemistry of Materials, 2006, 18, 5805-5809. | 3.2 | 81 |
| 43 | Clinical characteristics of TIMP2, MMP2, and MMP9 gene polymorphisms in colorectal cancer. Journal of Gastroenterology and Hepatology (Australia), 2011, 26, 391-397. | 1.4 | 81 |
| 44 | Enhanced conductivity of aligned PANi/PEO/MWNT nanofibers by electrospinning. Sensors and Actuators B: Chemical, 2008, 134, 122-126. | 4.0 | 79 |
| 45 | A Linear Actuation of Polymeric Nanofibrous Bundle for Artificial Muscles. Chemistry of Materials, 2009, 21, 511-515. | 3.2 | 79 |
| 46 | Thermal characteristics of chitin and hydroxypropyl chitin. Polymer, 1994, 35, 3212-3216. | 1.8 | 76 |
| 47 | A novel â€œdual modeâ€•actuation in chitosan/polyaniline/carbon nanotube fibers. Sensors and Actuators B: Chemical, 2007, 121, 616-621. | 4.0 | 70 |
| 48 | Permeation of solutes through interpenetrating polymer network hydrogels composed of poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 | 1.3 | 66 |
| 49 | Bio-inspired, Moisture-Powered Hybrid Carbon Nanotube Yarn Muscles. Scientific Reports, 2016, 6, 23016. | 1.6 | 66 |
| 50 | pH-Dependent Structures of an i-Motif DNA in Solution. Journal of Physical Chemistry B, 2009, 113, 1852-1856. | 1.2 | 64 |
| 51 | Behavior in electric fields of smart hydrogels with potential application as bio-inspired actuators. Smart Materials and Structures, 2005, 14, 511-514. | 1.8 | 62 |
| 52 | Hydrogel-Assisted Polyaniline Microfiber as Controllable Electrochemical Actuatable Supercapacitor. Journal of the Electrochemical Society, 2009, 156, A313. | 1.3 | 61 |
| 53 | Self-healing graphene oxide-based composite for electromagnetic interference shielding. Carbon, 2019, 155, 499-505. | 5.4 | 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. | 1.2 | 59 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Swelling characterizations of chitosan and polyacrylonitrile semi-interpenetrating polymer network hydrogels. Journal of Applied Polymer Science, 2003, 87, 2011-2015. | 1.3 | 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. | 1.8 | 58 |
| 57 | Thermal characteristics of poly(vinyl alcohol) and poly(vinylpyrrolidone) IPNs. Journal of Applied Polymer Science, 2002, 86, 1844-1847. | 1.3 | 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. | 1.3 | 57 |
| 59 | Harvesting temperature fluctuations as electrical energy using torsional and tensile polymer muscles. Energy and Environmental Science, 2015, 8, 3336-3344. | 15.6 | 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. | 1.3 | 56 |
| 61 | Electromechanical properties of hydrogels based on chitosan and poly(hydroxyethyl methacrylate) in NaCl solution. Smart Materials and Structures, 2004, 13, 1036-1039. | 1.8 | 55 |
| 62 | Electrodeposition of Î±-MnO2/Î³-MnO2 on Carbon Nanotube for Yarn Supercapacitor. Scientific Reports, 2019, 9, 11271. | 1.6 | 55 |
| 63 | Bending behavior of hydrogels composed of poly(methacrylic acid) and alginate by electrical stimulus. Polymer International, 2004, 53, 1456-1460. | 1.6 | 54 |
| 64 | Surprising shrinkage of expanding gels under an external load. Nature Materials, 2006, 5, 48-51. | 13.3 | 54 |
| 65 | Electrical response characterization of chitosan/polyacrylonitrile hydrogel in NaCl solutions. Journal of Applied Polymer Science, 2003, 90, 91-96. | 1.3 | 53 |
| 66 | DNA Hydrogel Fiber with Selfâ€Entanglement Prepared by Using an Ionic Liquid. Angewandte Chemie - International Edition, 2008, 47, 2470-2474. | 7.2 | 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. | 1.3 | 52 |
| 68 | Electroactive characteristics of interpenetrating polymer network hydrogels composed of poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 | 1.3 | 51 |
| 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. | 1.3 | 51 |
| 70 | Electrical behavior of polymer hydrogel composed of poly(vinyl alcohol)â€“hyaluronic acid in solution. Biosensors and Bioelectronics, 2004, 19, 531-536. | 5.3 | 50 |
| 71 | Carbon Nanotube Yarnâ€Based Glucose Sensing Artificial Muscle. Small, 2016, 12, 2085-2091. | 5.2 | 50 |
| 72 | Electrochemical graphene/carbon nanotube yarn artificial muscles. Sensors and Actuators B: Chemical, 2019, 286, 237-242. | 4.0 | 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. | 1.3 | 48 |
| 74 | Fullerene Attachment Enhances Performance of a DNA Nanomachine. Advanced Materials, 2009, 21, 1907-1910. | 11.1 | 48 |
| 75 | Alternative Nanostructures for Thermophones. ACS Nano, 2015, 9, 4743-4756. | 7.3 | 48 |
| 76 | Controlled assembly of polymer nanofibers: From helical springs to fully extended. Applied Physics Letters, 2006, 88, 223109. | 1.5 | 47 |
| 77 | Electrical sensitive behavior of poly(vinyl alcohol)/poly (diallyldimethylammonium chloride) IPN hydrogel. Sensors and Actuators B: Chemical, 2003, 88, 286-291. | 4.0 | 46 |
| 78 | Electrical sensitivity behavior of a hydrogel composed of polymethacrylic acid/poly(vinyl alcohol). Journal of Applied Polymer Science, 2004, 91, 3613-3617. | 1.3 | 46 |
| 79 | Direct fabrication of twisted nanofibers by electrospinning. Applied Physics Letters, 2007, 90, . | 1.5 | 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. | 1.0 | 46 |
| 81 | Biothermal sensing of a torsional artificial muscle. Nanoscale, 2016, 8, 3248-3253. | 2.8 | 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. | 1.3 | 45 |
| 83 | Highly loaded MXene/carbon nanotube yarn electrodes for improved asymmetric supercapacitor performance. MRS Communications, 2019, 9, 114-121. | 0.8 | 45 |
| 84 | Wearable Energy Generating and Storing Textile Based on Carbon Nanotube Yarns. Advanced Functional Materials, 2020, 30, 2000411. | 7.8 | 45 |
| 85 | Electrical sensitive behavior of a polyelectrolyte complex composed of chitosan/hyaluronic acid. Solid State Ionics, 2003, 164, 199-204. | 1.3 | 44 |
| 86 | Swelling Behavior of Chitosan Hydrogels in Ionic Liquidâ^'Water Binary Systems. Langmuir, 2006, 22, 9375-9379. | 1.6 | 44 |
| 87 | Controlled Magnetic Nanofiber Hydrogels by Clustering Ferritin. Langmuir, 2008, 24, 12107-12111. | 1.6 | 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. | 4.0 | 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. | 4.0 | 44 |
| 90 | The influence of added ionic salt on nanofiber uniformity for electrospinning of electrolyte polymer. Synthetic Metals, 2005, 154, 209-212. | 2.1 | 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. | 0.7 | 43 |
| 92 | Weavable asymmetric carbon nanotube yarn supercapacitor for electronic textiles. RSC Advances, 2018, 8, 13112-13120. | 1.7 | 43 |
| 93 | Characteristics of electrical responsive alginate/poly(diallyldimethylammonium chloride) IPN hydrogel in HCl solutions. Sensors and Actuators B: Chemical, 2003, 96, 1-5. | 4.0 | 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. | 1.3 | 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. | 1.3 | 38 |
| 96 | Reinforcement of polymeric nanofibers by ferritin nanoparticles. Applied Physics Letters, 2006, 88, 193901. | 1.5 | 38 |
| 97 | Tough Supersoft Sponge Fibers with Tunable Stiffness from a DNA Selfâ€Assembly Technique. Angewandte Chemie - International Edition, 2009, 48, 5116-5120. | 7.2 | 37 |
| 98 | Stretchable Fiber Biofuel Cell by Rewrapping Multiwalled Carbon Nanotube Sheets. Nano Letters, 2018, 18, 5272-5278. | 4.5 | 37 |
| 99 | Self-Healing Electrode with High Electrical Conductivity and Mechanical Strength for Artificial Electronic Skin. ACS Applied Materials & Interfaces, 2019, 11, 46026-46033. | 4.0 | 37 |
| 100 | Self-Powered Coiled Carbon-Nanotube Yarn Sensor for Gastric Electronics. ACS Sensors, 2019, 4, 2893-2899. | 4.0 | 37 |
| 101 | Self-Helical Fiber for Glucose-Responsive Artificial Muscle. ACS Applied Materials & Interfaces, 2020, 12, 20228-20233. | 4.0 | 37 |
| 102 | pH- and thermal characteristics of graft hydrogels based on chitosan and poly(dimethylsiloxane). Journal of Applied Polymer Science, 2002, 85, 2661-2666. | 1.3 | 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. | 4.0 | 36 |
| 104 | Synthesis of conducting polyaniline in semi-IPN based on chitosan. Synthetic Metals, 2005, 154, 213-216. | 2.1 | 35 |
| 105 | Thermally Responsive Torsional and Tensile Fiber Actuator Based on Graphene Oxide. ACS Applied Materials & Interfaces, 2018, 10, 32760-32764. | 4.0 | 35 |
| 106 | Swelling behavior of polyelectrolyte complex hydrogels composed of chitosan and hyaluronic acid. Journal of Applied Polymer Science, 2004, 93, 1097-1101. | 1.3 | 34 |
| 107 | Ag/MnO2 Composite Sheath-Core Structured Yarn Supercapacitors. Scientific Reports, 2018, 8, 13309. | 1.6 | 34 |
| 108 | Biscrolled Carbon Nanotube Yarn Structured Silver-Zinc Battery. Scientific Reports, 2018, 8, 11150. | 1.6 | 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. | 4.0 | 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. | 0.6 | 33 |
| 111 | A conducting polymer/ferritin anode for biofuel cell applications. Electrochimica Acta, 2009, 54, 3979-3983. | 2.6 | 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. | 1.3 | 32 |
| 113 | Synthesis and characteristics of polyelectrolyte complexes composed of chitosan and hyaluronic acid. Journal of Applied Polymer Science, 2004, 91, 2908-2913. | 1.3 | 32 |
| 114 | Electrical behavior of chitosan and poly(hydroxyethyl methacrylate) hydrogel in the contact system. Journal of Applied Polymer Science, 2004, 92, 915-919. | 1.3 | 31 |
| 115 | Thermoresponsive hydrogels based on poly(N-isopropylacrylamide)/chondroitin sulfate. Sensors and Actuators B: Chemical, 2008, 135, 336-341. | 4.0 | 31 |
| 116 | Bio-inspired Hybrid Carbon Nanotube Muscles. Scientific Reports, 2016, 6, 26687. | 1.6 | 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. | 1.3 | 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. | 1.3 | 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. | 2.0 | 30 |
| 120 | Identifcation of TRPM7 channels in human intestinalinterstitial cells of Cajal. World Journal of Gastroenterology, 2009, 15, 5799. | 1.4 | 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. | 2.0 | 29 |
| 122 | High-strength graphene and polyacrylonitrile composite fiber enhanced by surface coating with polydopamine. Composites Science and Technology, 2017, 149, 280-285. | 3.8 | 29 |
| 123 | Swollen behavior of crosslinked network hydrogels based on poly(vinyl alcohol) and polydimethylsiloxane. Journal of Applied Polymer Science, 2002, 85, 957-964. | 1.3 | 28 |
| 124 | Enhanced actuation of PPy/CNT hybrid fibers using porous structured DNA hydrogel. Sensors and Actuators B: Chemical, 2010, 145, 89-92. | 4.0 | 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. | 1.2 | 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. | 2.1 | 27 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | Implantable Biosupercapacitor Inspired by the Cellular Redox System. Angewandte Chemie - International Edition, 2021, 60, 10563-10567. | 7.2 | 27 |
| 128 | Molecular determinants of PKA-dependent inhibition of TRPC5 channel. American Journal of Physiology - Cell Physiology, 2011, 301, C823-C832. | 2.1 | 26 |
| 129 | Carbon nanotubesâ€“elastomer actuator driven electrothermally by low-voltage. Nanoscale Advances, 2019, 1, 965-968. | 2.2 | 26 |
| 130 | Thermal characteristics of IPNs composed of polyallylamine and chitosan. Journal of Applied Polymer Science, 2002, 85, 1956-1960. | 1.3 | 25 |
| 131 | Swelling kinetics of modified poly(vinyl alcohol) hydrogels. Journal of Applied Polymer Science, 2003, 90, 3310-3313. | 1.3 | 25 |
| 132 | Triboelectric generator for wearable devices fabricated using a casting method. RSC Advances, 2016, 6, 10094-10098. | 1.7 | 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. | 1.2 | 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. | 0.6 | 24 |
| 135 | Positive feedback control between STIM1 and NFATc3 is required for C2C12 myoblast differentiation. Biochemical and Biophysical Research Communications, 2013, 430, 722-728. | 1.0 | 24 |
| 136 | Highly stretchable hybrid nanomembrane supercapacitors. RSC Advances, 2016, 6, 24756-24759. | 1.7 | 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. | 1.2 | 23 |
| 138 | Cubic Interval-Valued Intuitionistic Fuzzy Sets and Their Application in BCK/BCI-Algebras. Axioms, 2018, 7, 7. | 0.9 | 23 |
| 139 | Orthogonal pattern of spinnable multiwall carbon nanotubes for electromagnetic interference shielding effectiveness. Carbon, 2019, 152, 33-39. | 5.4 | 23 |
| 140 | Water behavior of poly(vinyl alcohol)/poly(vinylpyrrolidone) interpenetrating polymer network hydrogels. Journal of Applied Polymer Science, 2003, 89, 24-27. | 1.3 | 22 |
| 141 | Water sorption of poly(propylene glycol)/poly(acrylic acid) interpenetrating polymer network hydrogels. Reactive and Functional Polymers, 2003, 55, 69-73. | 2.0 | 22 |
| 142 | Enhancement of electromagnetic interference shielding effectiveness with alignment of spinnable multiwalled carbon nanotubes. Carbon, 2019, 142, 528-534. | 5.4 | 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. | 1.8 | 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. | 1.0 | 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. | 0.6 | 21 |
| 146 | Free-standing nanocomposites with high conductivity and extensibility. Nanotechnology, 2013, 24, 165401. | 1.3 | 21 |
| 147 | Torsional behaviors of polymer-infiltrated carbon nanotube yarn muscles studied with atomic force microscopy. Nanoscale, 2015, 7, 2489-2496. | 2.8 | 21 |
| 148 | Stability of carbon nanotube yarn biofuel cell in human body fluid. Journal of Power Sources, 2015, 286, 103-108. | 4.0 | 21 |
| 149 | Synthesis and characterization of ether-type chitin derivatives. Macromolecular Chemistry and Physics, 1994, 195, 1687-1693. | 1.1 | 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. | 1.3 | 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. | 2.6 | 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. | 0.6 | 20 |
| 153 | Interval Neutrosophic Sets with Applications in BCK/BCI-Algebra. Axioms, 2018, 7, 23. | 0.9 | 20 |
| 154 | Bio-Inspired Stretchable and Contractible Tough Fiber by the Hybridization of GO/MWNT/Polyurethane. ACS Applied Materials & Interfaces, 2019, 11, 31162-31168. | 4.0 | 20 |
| 155 | Quasi-solid-state highly stretchable circular knitted MnO<sub>2</sub>@CNT supercapacitor. RSC Advances, 2020, 10, 14007-14012. | 1.7 | 20 |
| 156 | More Powerful Twistron Carbon Nanotube Yarn Mechanical Energy Harvesters. Advanced Materials, 2022, 34, e2201826. | 11.1 | 20 |
| 157 | The fabrication of polyaniline/single-walled carbon nanotube fibers containing a highly-oriented filler. Nanotechnology, 2009, 20, 085701. | 1.3 | 19 |
| 158 | Mediator-free carbon nanotube yarn biofuel cell. RSC Advances, 2016, 6, 48346-48350. | 1.7 | 19 |
| 159 | Simple Artificial Neuron Using an Ovonic Threshold Switch Featuring Spike-Frequency Adaptation and Chaotic Activity. Physical Review Applied, 2020, 13, . | 1.5 | 19 |
| 160 | Electrical energy harvesting from ferritin biscrolled carbon nanotube yarn. Biosensors and Bioelectronics, 2020, 164, 112318. | 5.3 | 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. | 1.2 | 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. | 1.6 | 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. | 1.0 | 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. | 0.6 | 17 |
| 165 | Magnetic torsional actuation of carbon nanotube yarn artificial muscle. RSC Advances, 2018, 8, 17421-17425. | 1.7 | 17 |
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