

Hak-Yong Kim

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523
papers

24,280
citations

78
h-index

128
g-index

532
ext. papers

27,155
ext. citations

5.1
avg. IF

7.24
L-index

#	Paper	IF	Citations
523	Crystalline structure analysis of cellulose treated with sodium hydroxide and carbon dioxide by means of X-ray diffraction and FTIR spectroscopy. <i>Carbohydrate Research</i> , 2005 , 340, 2376-91	2.9	876
522	Electrospun nanofibrous polyurethane membrane as wound dressing. <i>Journal of Biomedical Materials Research Part B</i> , 2003 , 67, 675-9		643
521	Electrospinning of Chitosan. <i>Macromolecular Rapid Communications</i> , 2004 , 25, 1600-1605	4.8	521
520	Characterization of nano-structured poly(ϵ -caprolactone) nonwoven mats via electrospinning. <i>Polymer</i> , 2003 , 44, 1287-1294	3.9	472
519	Fabrication and characterization of poly (vinyl alcohol)/chitosan blend nanofibers produced by electrospinning method. <i>Carbohydrate Polymers</i> , 2007 , 67, 403-409	10.3	413
518	Novel biodegradable electrospun membrane: scaffold for tissue engineering. <i>Biomaterials</i> , 2004 , 25, 2595-602	15.6	398
517	Fiber mats of poly(vinyl alcohol)/silica composite via electrospinning. <i>Materials Letters</i> , 2003 , 57, 1579-1584	3.4	354
516	Wound-dressing materials with antibacterial activity from electrospun polyurethane-dextran nanofiber mats containing ciprofloxacin HCl. <i>Carbohydrate Polymers</i> , 2012 , 90, 1786-93	10.3	351
515	The change of bead morphology formed on electrospun polystyrene fibers. <i>Polymer</i> , 2003 , 44, 4029-4034	3.9	317
514	Electrospun nanofibers: New generation materials for advanced applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2017 , 217, 36-48	3.1	287
513	Role of molecular weight of atactic poly(vinyl alcohol) (PVA) in the structure and properties of PVA nanofabric prepared by electrospinning. <i>Journal of Applied Polymer Science</i> , 2004 , 93, 1638-1646	2.9	285
512	Preparation and characterization of a nanoscale poly(vinyl alcohol) fiber aggregate produced by an electrospinning method. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2002 , 40, 1261-1268	2.6	260
511	Synthesis of carbon quantum dots from cabbage with down- and up-conversion photoluminescence properties: excellent imaging agent for biomedical applications. <i>Green Chemistry</i> , 2015 , 17, 3791-3797	10	233
510	An improved hydrophilicity via electrospinning for enhanced cell attachment and proliferation. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2006 , 78, 283-90	3.5	228
509	Spectroscopic identification of S-Au interaction in cysteine capped gold nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2006 , 63, 160-3	4.4	218
508	Extraction of pure natural hydroxyapatite from the bovine bones bio waste by three different methods. <i>Journal of Materials Processing Technology</i> , 2009 , 209, 3408-3415	5.3	214
507	Novel fabricated matrix via electrospinning for tissue engineering. <i>Journal of Biomedical Materials Research Part B</i> , 2005 , 72, 117-24		210

506	Electrospun nylon-6 spider-net like nanofiber mat containing TiO ₂ nanoparticles: a multifunctional nanocomposite textile material. <i>Journal of Hazardous Materials</i> , 2011 , 185, 124-30	12.8	204
505	Transport properties of electrospun nylon 6 nonwoven mats. <i>European Polymer Journal</i> , 2003 , 39, 1883-1889	1.8	194
504	Influence of a mixing solvent with tetrahydrofuran and N,N-dimethylformamide on electrospun poly(vinyl chloride) nonwoven mats. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2002 , 40, 2259-2268	2.6	193
503	Metal-organic framework derived Co ₃ O ₄ /MoS ₂ heterostructure for efficient bifunctional electrocatalysts for oxygen evolution reaction and hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2019 , 248, 202-210	21.8	191
502	Synthesis and Optical Properties of Two Cobalt Oxides (CoO and Co ₃ O ₄) Nanofibers Produced by Electrospinning Process. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 12225-12233	3.8	183
501	A novel method for preparing ultra-fine alumina-borate oxide fibres via an electrospinning technique. <i>Nanotechnology</i> , 2002 , 13, 674-677	3.4	183
500	Spider-net within the N6, PVA and PU electrospun nanofiber mats using salt addition: Novel strategy in the electrospinning process. <i>Polymer</i> , 2009 , 50, 4389-4396	3.9	180
499	Mechanical behavior of electrospun fiber mats of poly(vinyl chloride)/polyurethane polyblends. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2003 , 41, 1256-1262	2.6	180
498	Photocatalytic and antibacterial properties of a TiO ₂ /nylon-6 electrospun nanocomposite mat containing silver nanoparticles. <i>Journal of Hazardous Materials</i> , 2011 , 189, 465-71	12.8	169
497	Gelatin-coated magnetic iron oxide nanoparticles as carrier system: drug loading and in vitro drug release study. <i>International Journal of Pharmaceutics</i> , 2009 , 365, 180-9	6.5	166
496	Preparation and characterization of nanoscaled poly(vinyl alcohol) fibers via electrospinning. <i>Fibers and Polymers</i> , 2002 , 3, 73-79	2	150
495	Electrospun poly(vinyl alcohol) nanofibers: effects of degree of hydrolysis and enhanced water stability. <i>Polymer Journal</i> , 2010 , 42, 273-276	2.7	144
494	Synthesis of nickel oxide nanoparticles using nickel acetate and poly(vinyl acetate) precursor. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2006 , 128, 111-114	3.1	144
493	Morphology and crystalline phase study of electrospun TiO ₂ /SiO ₂ nanofibres. <i>Nanotechnology</i> , 2003 , 14, 532-537	3.4	142
492	One-step synthesis of robust nitrogen-doped carbon dots: acid-evoked fluorescence enhancement and their application in Fe ³⁺ detection. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 17747-17754	13	137
491	Carbon quantum dots anchored TiO ₂ nanofibers: Effective photocatalyst for waste water treatment. <i>Ceramics International</i> , 2015 , 41, 11953-11959	5.1	136
490	Production of Smooth and Pure Nickel Metal Nanofibers by the Electrospinning Technique: Nanofibers Possess Splendid Magnetic Properties. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 531-536	3.8	126
489	Graphene wrapped MnO ₂ -nanostructures as effective and stable electrode materials for capacitive deionization desalination technology. <i>Desalination</i> , 2014 , 344, 289-298	10.3	125

488	Physiochemical characterizations of hydroxyapatite extracted from bovine bones by three different methods: Extraction of biologically desirable HAp. <i>Materials Science and Engineering C</i> , 2008 , 28, 1381-1387	8.3	122
487	Electrospun antimicrobial polyurethane nanofibers containing silver nanoparticles for biotechnological applications. <i>Macromolecular Research</i> , 2009 , 17, 688-696	1.9	119
486	A novel method for making silica nanofibres by using electrospun fibres of polyvinylalcohol/silica composite as precursor. <i>Nanotechnology</i> , 2002 , 13, 635-637	3.4	119
485	Polarized FT-IR Study of Macroscopically Oriented Electrospun Nylon-6 Nanofibers. <i>Macromolecules</i> , 2008 , 41, 1494-1498	5.5	115
484	Cobalt nanofibers encapsulated in a graphite shell by an electrospinning process. <i>Journal of Materials Chemistry</i> , 2009 , 19, 7371		111
483	Electrospun ZnO hybrid nanofibers for photodegradation of wastewater containing organic dyes: A review. <i>Journal of Industrial and Engineering Chemistry</i> , 2015 , 21, 26-35	6.3	110
482	The effect of molecular weight and the linear velocity of drum surface on the properties of electrospun poly(ethylene terephthalate) nonwovens. <i>Fibers and Polymers</i> , 2004 , 5, 122-127	2	109
481	Carbon nanofibers decorated with binary semiconductor (TiO ₂ /ZnO) nanocomposites for the effective removal of organic pollutants and the enhancement of antibacterial activities. <i>Ceramics International</i> , 2013 , 39, 7029-7035	5.1	104
480	CoNi Bimetallic Nanofibers by Electrospinning: Nickel-Based Soft Magnetic Material with Improved Magnetic Properties. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 15589-15593	3.8	103
479	Titanium dioxide nanofibers prepared by using electrospinning method. <i>Fibers and Polymers</i> , 2004 , 5, 105-109	2	101
478	Flexible 3D Nanoporous Graphene for Desalination and Bio-decontamination of Brackish Water via Asymmetric Capacitive Deionization. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 25313-25	9.5	99
477	Multi-walled carbon nanotubes/TiO ₂ composite nanofiber by electrospinning. <i>Materials Science and Engineering C</i> , 2008 , 28, 75-79	8.3	97
476	Influence of CdO-doping on the photoluminescence properties of ZnO nanofibers: Effective visible light photocatalyst for waste water treatment. <i>Journal of Luminescence</i> , 2012 , 132, 1668-1677	3.8	96
475	Fabrication of highly porous poly (ε-caprolactone) fibers for novel tissue scaffold via water-bath electrospinning. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011 , 88, 587-92	6	96
474	Polymeric nanofibers containing solid nanoparticles prepared by electrospinning and their applications. <i>Chemical Engineering Journal</i> , 2010 , 156, 487-495	14.7	96
473	Synthesis and characterization of hydroxyapatite using carbon nanotubes as a nano-matrix. <i>Scripta Materialia</i> , 2006 , 54, 131-135	5.6	96
472	Hollow carbon nanofibers as an effective electrode for brackish water desalination using the capacitive deionization process. <i>New Journal of Chemistry</i> , 2014 , 38, 198-205	3.6	95
471	Photocatalytic TiO ₂ BGO/nylon-6 spider-wave-like nano-nets via electrospinning and hydrothermal treatment. <i>Journal of Membrane Science</i> , 2013 , 429, 225-234	9.6	94

470	Facile preparation and characterization of poly(vinyl alcohol)/chitosan/graphene oxide biocomposite nanofibers. <i>Journal of Industrial and Engineering Chemistry</i> , 2014 , 20, 4415-4420	6.3	94
469	Effect of successive electrospinning and the strength of hydrogen bond on the morphology of electrospun nylon-6 nanofibers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010 , 370, 87-94	5.1	93
468	Electrospun nonwovens of shape-memory polyurethane block copolymers. <i>Journal of Applied Polymer Science</i> , 2005 , 96, 460-465	2.9	93
467	Hydrophilic nanofibrous structure of polylactide; fabrication and cell affinity. <i>Journal of Biomedical Materials Research - Part A</i> , 2006 , 78, 247-57	5.4	92
466	Nickel titanate nanofibers by electrospinning. <i>Materials Chemistry and Physics</i> , 2004 , 87, 5-9	4.4	92
465	Vanadium pentoxide nanofibers by electrospinning. <i>Scripta Materialia</i> , 2003 , 49, 577-581	5.6	91
464	In-situ synthesis of nanofibers with various ratios of BiOClx/BiOBry/BiOlz for effective trichloroethylene photocatalytic degradation. <i>Applied Surface Science</i> , 2016 , 384, 192-199	6.7	89
463	Thermal property and latent heat energy storage behavior of sodium acetate trihydrate composites containing expanded graphite and carboxymethyl cellulose for phase change materials. <i>Applied Thermal Engineering</i> , 2015 , 75, 978-983	5.8	88
462	Study of electrolyte induced aggregation of gold nanoparticles capped by amino acids. <i>Journal of Colloid and Interface Science</i> , 2006 , 299, 191-7	9.3	88
461	The photoluminescence properties of zinc oxide nanofibres prepared by electrospinning. <i>Nanotechnology</i> , 2004 , 15, 320-323	3.4	87
460	Synthesis and characterization of reduced graphene oxide decorated with CeO-doped MnO nanorods for supercapacitor applications. <i>Journal of Colloid and Interface Science</i> , 2017 , 494, 338-344	9.3	86
459	Preparation of polyamide-6/chitosan composite nanofibers by a single solvent system via electrospinning for biomedical applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011 , 83, 173-8	6	86
458	Cobalt/copper-decorated carbon nanofibers as novel non-precious electrocatalyst for methanol electrooxidation. <i>Nanoscale Research Letters</i> , 2014 , 9, 2	5	85
457	Poly(E-caprolactone) filled with electrospun nylon fibres: A model for a facile composite fabrication. <i>European Polymer Journal</i> , 2010 , 46, 968-976	5.2	85
456	NiCoS nanosheet-decorated 3D, porous Ni film@Ni wire electrode materials for all solid-state asymmetric supercapacitor applications. <i>Nanoscale</i> , 2017 , 9, 18819-18834	7.7	84
455	Emu oil-based electrospun nanofibrous scaffolds for wound skin tissue engineering. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012 , 415, 454-460	5.1	83
454	Influence of the nanofibrous morphology on the catalytic activity of NiO nanostructures: an effective impact toward methanol electrooxidation. <i>Nanoscale Research Letters</i> , 2013 , 8, 402	5	82
453	A novel CuS microflower superstructure based sensitive and selective nonenzymatic glucose detection. <i>Sensors and Actuators B: Chemical</i> , 2016 , 233, 93-99	8.5	82

452	Surface plasmon resonances, optical properties, and electrical conductivity thermal hysteresis of silver nanofibers produced by the electrospinning technique. <i>Langmuir</i> , 2008 , 24, 11982-7	4	81
451	General one-pot strategy to prepare Ag/TiO ₂ decorated reduced graphene oxide nanocomposites for chemical and biological disinfectant. <i>Journal of Alloys and Compounds</i> , 2016 , 671, 51-59	5.7	80
450	Synthesis and photocatalytic activities of CdS/TiO ₂ nanoparticles supported on carbon nanofibers for high efficient adsorption and simultaneous decomposition of organic dyes. <i>Journal of Colloid and Interface Science</i> , 2014 , 434, 159-66	9.3	80
449	Characterization and antibacterial properties of Ag NPs loaded nylon-6 nanocomposite prepared by one-step electrospinning process. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012 , 395, 94-99	5.1	80
448	Influence of temperature on the photodegradation process using Ag-doped TiO ₂ nanostructures: Negative impact with the nanofibers. <i>Journal of Molecular Catalysis A</i> , 2013 , 366, 333-340		80
447	Preparation and morphology of niobium oxide fibres by electrospinning. <i>Chemical Physics Letters</i> , 2003 , 374, 79-84	2.5	80
446	Antibacterial activity and interaction mechanism of electrospun zinc-doped titania nanofibers. <i>Applied Microbiology and Biotechnology</i> , 2012 , 93, 743-51	5.7	79
445	Flexible transparent electrode based on PANi nanowire/nylon nanofiber reinforced cellulose acetate thin film as supercapacitor. <i>Chemical Engineering Journal</i> , 2015 , 273, 603-609	14.7	77
444	Facile Synthesis of Core/Shell-like NiCo ₂ O ₄ -Decorated MWCNTs and its Excellent Electrocatalytic Activity for Methanol Oxidation. <i>Scientific Reports</i> , 2016 , 6, 20313	4.9	76
443	Carbon nanotubes assisted biomimetic synthesis of hydroxyapatite from simulated body fluid. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 426, 202-207	5.3	76
442	A green and scalable dry synthesis of NiCo ₂ O ₄ /graphene nanohybrids for high-performance supercapacitor and enzymeless glucose biosensor applications. <i>Journal of Alloys and Compounds</i> , 2017 , 696, 193-200	5.7	74
441	Roles of work of adhesion between carbon blacks and thermoplastic polymers on electrical properties of composites. <i>Journal of Colloid and Interface Science</i> , 2002 , 255, 145-9	9.3	74
440	Photocatalytic activity of ZnO-TiO ₂ hierarchical nanostructure prepared by combined electrospinning and hydrothermal techniques. <i>Macromolecular Research</i> , 2010 , 18, 233-240	1.9	72
439	Graphene/SnO ₂ nanocomposite as an effective electrode material for saline water desalination using capacitive deionization. <i>Ceramics International</i> , 2014 , 40, 14627-14634	5.1	71
438	Synthesis, characterization, and photocatalytic properties of ZnO nano-flower containing TiO ₂ NPs. <i>Ceramics International</i> , 2012 , 38, 2943-2950	5.1	71
437	Effects of functional groups on the graphene sheet for improving the thermomechanical properties of polyurethane nanocomposites. <i>Composites Part B: Engineering</i> , 2015 , 78, 192-201	10	70
436	Molecular proteomics imaging of tumor interfaces by mass spectrometry. <i>Journal of Proteome Research</i> , 2010 , 9, 1157-64	5.6	69
435	N-Acylated chitosan stabilized iron oxide nanoparticles as a novel nano-matrix and ceramic modification. <i>Carbohydrate Polymers</i> , 2007 , 69, 467-477	10.3	68

434	Spectral studies of SnO ₂ nanofibres prepared by electrospinning method. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2006 , 64, 136-40	4.4	68
433	Stress-strain behavior of the electrospun thermoplastic polyurethane elastomer fiber mats. <i>Macromolecular Research</i> , 2005 , 13, 441-445	1.9	68
432	In-built fabrication of MOF assimilated B/N co-doped 3D porous carbon nanofiber network as a binder-free electrode for supercapacitors. <i>Electrochimica Acta</i> , 2019 , 301, 209-219	6.7	67
431	Facile electrospun Polyacrylonitrile/poly(acrylic acid) nanofibrous membranes for high efficiency particulate air filtration. <i>Fibers and Polymers</i> , 2015 , 16, 629-633	2	67
430	Consolidation and mechanical properties of nanostructured hydroxyapatite(ZrO ₂ + 3 mol% Y ₂ O ₃) bioceramics by high-frequency induction heat sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 456, 368-372	5.3	67
429	Ag-ZnO photocatalyst anchored on carbon nanofibers: Synthesis, characterization, and photocatalytic activities. <i>Synthetic Metals</i> , 2016 , 220, 533-537	3.6	67
428	GeO ₂ fibers: preparation, morphology and photoluminescence property. <i>Journal of Chemical Physics</i> , 2004 , 121, 441-5	3.9	66
427	Carbon nanofibers wrapped with zinc oxide nano-flakes as promising electrode material for supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2018 , 522, 40-47	9.3	65
426	Ultrahigh electromagnetic interference shielding performance of lightweight, flexible, and highly conductive copper-clad carbon fiber nonwoven fabrics. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 7853-7861	7.1	65
425	Polypyrrole-Decorated Hierarchical NiCo ₂ O ₄ Nanoneedles/Carbon Fiber Papers for Flexible High-Performance Supercapacitor Applications. <i>Electrochimica Acta</i> , 2017 , 247, 524-534	6.7	64
424	Inactivation of pathogenic <i>Klebsiella pneumoniae</i> by CuO/TiO ₂ nanofibers: A multifunctional nanomaterial via one-step electrospinning. <i>Ceramics International</i> , 2012 , 38, 4525-4532	5.1	63
423	NiCo ₂ O ₄ nanostructure-decorated PAN/lignin based carbon nanofiber electrodes with excellent cyclability for flexible hybrid supercapacitors. <i>Polymer</i> , 2017 , 132, 31-40	3.9	61
422	Electrospun polymeric nanofibers encapsulated with nanostructured materials and their applications: A review. <i>Journal of Industrial and Engineering Chemistry</i> , 2015 , 24, 1-13	6.3	60
421	In-situ synthesis of graphene oxide/BiOCl heterostructured nanofibers for visible-light photocatalytic investigation. <i>Journal of Alloys and Compounds</i> , 2016 , 686, 106-114	5.7	60
420	Preparation and enhanced mechanical properties of non-covalently-functionalized graphene oxide/cellulose acetate nanocomposites. <i>Composites Part B: Engineering</i> , 2016 , 90, 223-231	10	59
419	Moderated surface defects of Ni particles encapsulated with NiO nanofibers as supercapacitor with high capacitance and energy density. <i>Journal of Colloid and Interface Science</i> , 2017 , 500, 155-163	9.3	58
418	Preparation and photocatalytic activity of fly ash incorporated TiO ₂ nanofibers for effective removal of organic pollutants. <i>Ceramics International</i> , 2015 , 41, 1771-1777	5.1	58
417	Laccase-poly(lactic-co-glycolic acid) (PLGA) nanofiber: highly stable, reusable, and efficacious for the transformation of diclofenac. <i>Enzyme and Microbial Technology</i> , 2012 , 51, 113-8	3.8	58

4 ¹⁶	Under-oil superhydrophilic wetted PVDF electrospun modified membrane for continuous gravitational oil/water separation with outstanding flux. <i>Water Research</i> , 2017 , 123, 524-535	12.5	58
4 ¹⁵	Effective NiCu NPs-doped carbon nanofibers as counter electrodes for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2013 , 102, 142-148	6.7	57
4 ¹⁴	Development of multi-channel carbon nanofibers as effective electrosorptive electrodes for a capacitive deionization process. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 11001	13	57
4 ¹³	Effect of lactic acid on polymer crystallization chain conformation and fiber morphology in an electrospun nylon-6 mat. <i>Polymer</i> , 2011 , 52, 4851-4856	3.9	57
4 ¹²	Ruthenium doped TiO ₂ fibers by electrospinning. <i>Inorganic Chemistry Communication</i> , 2004 , 7, 679-682	3.1	57
4 ¹¹	Expeditious and eco-friendly fabrication of highly uniform microflower superstructures and their applications in highly durable methanol oxidation and high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 12253-12262	13	57
4 ¹⁰	Electrospun CdS/TiO ₂ doped carbon nanofibers for visible-light-induced photocatalytic hydrolysis of ammonia borane. <i>Catalysis Communications</i> , 2014 , 50, 63-68	3.2	56
4 ⁰⁹	Amphiphilic Poly(vinyl alcohol) Hybrids and Electrospun Nanofibers Incorporating Polyhedral Oligosilsesquioxane. <i>Macromolecules</i> , 2007 , 40, 4823-4828	5.5	56
4 ⁰⁸	Formation of electrospun nylon-6/methoxy poly(ethylene glycol) oligomer spider-wave nanofibers. <i>Materials Letters</i> , 2010 , 64, 2087-2090	3.3	54
4 ⁰⁷	Nanofibrous mats of poly(trimethylene terephthalate) via electrospinning. <i>Polymer</i> , 2004 , 45, 295-301	3.9	54
4 ⁰⁶	Novel magnetically separable silver-iron oxide nanoparticles decorated graphitic carbon nitride nano-sheets: A multifunctional photocatalyst via one-step hydrothermal process. <i>Journal of Colloid and Interface Science</i> , 2017 , 496, 343-352	9.3	53
4 ⁰⁵	Effect of discarded keratin-based biocomposite hydrogels on the wound healing process in vivo. <i>Materials Science and Engineering C</i> , 2015 , 55, 88-94	8.3	53
4 ⁰⁴	Hydroxyapatite Mineralization on the Calcium Chloride Blended Polyurethane Nanofiber via Biomimetic Method. <i>Nanoscale Research Letters</i> , 2010 , 6, 2	5	53
4 ⁰³	Preparation and morphology of magnesium titanate nanofibres via electrospinning. <i>Inorganic Chemistry Communication</i> , 2004 , 7, 431-433	3.1	53
4 ⁰²	A facile ultrasonic-assisted fabrication of nitrogen-doped carbon dots/BiOBr up-conversion nanocomposites for visible light photocatalytic enhancements. <i>Scientific Reports</i> , 2017 , 7, 45086	4.9	52
4 ⁰¹	Co/CeO ₂ -decorated carbon nanofibers as effective non-precious electro-catalyst for fuel cells application in alkaline medium. <i>Ceramics International</i> , 2015 , 41, 2271-2278	5.1	52
4 ⁰⁰	Fabrication and durable antibacterial properties of electrospun chitosan nanofibers with silver nanoparticles. <i>International Journal of Biological Macromolecules</i> , 2015 , 79, 638-43	7.9	52
399	Influence of Nitrogen doping on the Catalytic Activity of Ni-incorporated Carbon Nanofibers for Alkaline Direct Methanol Fuel Cells. <i>Electrochimica Acta</i> , 2014 , 142, 228-239	6.7	52

398	Synthesis and characterization of bovine femur bone hydroxyapatite containing silver nanoparticles for the biomedical applications. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 1917-1927	2.3	52
397	Novel self-assembled amphiphilic poly(epsilon-caprolactone)-grafted-poly(vinyl alcohol) nanoparticles: hydrophobic and hydrophilic drugs carrier nanoparticles. <i>Journal of Materials Science: Materials in Medicine</i> , 2009 , 20, 821-31	4.5	52
396	Cobalt-incorporated, nitrogen-doped carbon nanofibers as effective non-precious catalyst for methanol electrooxidation in alkaline medium. <i>Applied Catalysis A: General</i> , 2015 , 498, 230-240	5.1	51
395	Pd/TiO ₂ -doped carbon nanofibers with photoactivity as effective counter electrodes for DSSCs. <i>Chemical Engineering Journal</i> , 2012 , 211-212, 9-15	14.7	51
394	Effect of collector temperature on the porous structure of electrospun fibers. <i>Macromolecular Research</i> , 2006 , 14, 59-65	1.9	51
393	Characterization and antibacterial properties of aminophenol grafted and Ag NPs decorated graphene nanocomposites. <i>Ceramics International</i> , 2015 , 41, 5656-5662	5.1	50
392	Chemically stable electrospun NiCu nanorods@carbon nanofibers for highly efficient dehydrogenation of ammonia borane. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 17715-17723	6.7	50
391	Ethanol electro-oxidation using cadmium-doped cobalt/carbon nanoparticles as novel non precious electrocatalyst. <i>Applied Catalysis A: General</i> , 2013 , 455, 193-198	5.1	50
390	Technological trends in heavy metals removal from industrial wastewater: A review. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105688	6.8	50
389	Immobilization of Ag ₃ PO ₄ nanoparticles on electrospun PAN nanofibers via surface oximation: Bifunctional composite membrane with enhanced photocatalytic and antimicrobial activities. <i>Journal of Industrial and Engineering Chemistry</i> , 2017 , 45, 277-286	6.3	49
388	Synthesis and film formation of iron/cobalt nanofibers encapsulated in graphite shell: magnetic, electric and optical properties study. <i>Journal of Materials Chemistry</i> , 2011 , 21, 10957		49
387	Synthesis of poly(vinyl alcohol) (PVA) nanofibers incorporating hydroxyapatite nanoparticles as future implant materials. <i>Macromolecular Research</i> , 2010 , 18, 59-66	1.9	49
386	Structural, thermal, mechanical and bioactivity evaluation of silver-loaded bovine bone hydroxyapatite grafted poly(Epsilon-caprolactone) nanofibers via electrospinning. <i>Surface and Coatings Technology</i> , 2010 , 205, 174-181	4.4	49
385	Enhanced mechanical properties of multilayer nano-coated electrospun nylon 6 fibers via a layer-by-layer self-assembly. <i>Journal of Applied Polymer Science</i> , 2008 , 107, 2211-2216	2.9	49
384	Electronic characterization and photocatalytic properties of TiO ₂ /CdO electrospun nanofibers. <i>Journal of Materials Science</i> , 2010 , 45, 1272-1279	4.3	48
383	Preparation and characterization of H ₄ SiMo ₁₂ O ₄₀ /poly(vinyl alcohol) fiber mats produced by an electrospinning method. <i>Journal of Applied Polymer Science</i> , 2003 , 89, 1573-1578	2.9	48
382	Preparation and characterization of keratin-based biocomposite hydrogels prepared by electron beam irradiation. <i>Materials Science and Engineering C</i> , 2013 , 33, 5051-7	8.3	47
381	Green synthesis of fluorescent carbon dots from carrot juice for in vitro cellular imaging. <i>Carbon Letters</i> , 2017 , 21, 61-67	2.3	47

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