Hak Yong Kim

List of Publications by Year
in descending order

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351 papers	18,521 citations	11651 70 h-index	22832 112 g-index
352 all docs	352 docs citations	352 times ranked	18610 citing authors

#	Article	IF	Citations
1	Novel biodegradable electrospun membrane: scaffold for tissue engineering. Biomaterials, 2004, 25, 2595-2602.	11.4	440
2	Wound-dressing materials with antibacterial activity from electrospun polyurethaneâ€“dextran nanofiber mats containing ciprofloxacin HCl. Carbohydrate Polymers, 2012, 90, 1786-1793.	10.2	404
3	Electrospun nanofibers: New generation materials for advanced applications. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2017, 217, 36-48.	3.5	397
4	Technological trends in heavy metals removal from industrial wastewater: A review. Journal of Environmental Chemical Engineering, 2021, 9, 105688.	6.7	343
5	Role of molecular weight of atactic poly(vinyl alcohol) (PVA) in the structure and properties of PVA nanofabric prepared by electrospinning. Journal of Applied Polymer Science, 2004, 93, 1638-1646.	2.6	330
6	Metal-organic framework derived Co3O4/MoS2 heterostructure for efficient bifunctional electrocatalysts for oxygen evolution reaction and hydrogen evolution reaction. Applied Catalysis B: Environmental, 2019, 248, 202-210.	20.2	309
7	Preparation and characterization of a nanoscale poly(vinyl alcohol) fiber aggregate produced by an electrospinning method. Journal of Polymer Science, Part B: Polymer Physics, 2002, 40, 1261-1268.	2.1	298
8	Extraction of pure natural hydroxyapatite from the bovine bones bio waste by three different methods. Journal of Materials Processing Technology, 2009, 209, 3408-3415.	6.3	280
9	An improved hydrophilicity via electrospinning for enhanced cell attachment and proliferation. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2006, 78B, 283-290.	3.4	267
10	Spectroscopic identification of SAu interaction in cysteine capped gold nanoparticles. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2006, 63, 160-163.	3.9	257
11	Electrospun nylon-6 spider-net like nanofiber mat containing TiO2 nanoparticles: A multifunctional nanocomposite textile material. Journal of Hazardous Materials, 2011, 185, 124-130.	12.4	231
12	Synthesis and Optical Properties of Two Cobalt Oxides (CoO and Co₃O₄) Nanofibers Produced by Electrospinning Process. Journal of Physical Chemistry C, 2008, 112, 12225-12233.	3.1	216
13	Influence of a mixing solvent with tetrahydrofuran andN,N-dimethylformamide on electrospun poly(vinyl chloride) nonwoven mats. Journal of Polymer Science, Part B: Polymer Physics, 2002, 40, 2259-2268.	2.1	215
14	Transport properties of electrospun nylon 6 nonwoven mats. European Polymer Journal, 2003, 39, 1883-1889.	5.4	212
15	Spider-net within the N6, PVA and PU electrospun nanofiber mats using salt addition: Novel strategy in the electrospinning process. Polymer, 2009, 50, 4389-4396.	3.8	208
16	Gelatin-coated magnetic iron oxide nanoparticles as carrier system: Drug loading and in vitro drug release study. International Journal of Pharmaceutics, 2009, 365, 180-189.	5.2	203
17	Mechanical behavior of electrospun fiber mats of poly(vinyl chloride)/polyurethane polyblends. Journal of Polymer Science, Part B: Polymer Physics, 2003, 41, 1256-1262.	2.1	196
18	Photocatalytic and antibacterial properties of a TiO2/nylon-6 electrospun nanocomposite mat containing silver nanoparticles. Journal of Hazardous Materials, 2011, 189, 465-471.	12.4	193

#	Article	IF	Citations
19	Electrospun poly(vinyl alcohol) nanofibers: effects of degree of hydrolysis and enhanced water stability. Polymer Journal, 2010, 42, 273-276.	2.7	182
20	Preparation and characterization of nanoscaled poly(vinyl alcohol) fibers via electrospinning. Fibers and Polymers, 2002, 3, 73-79.	2.1	168
21	Physiochemical characterizations of hydroxyapatite extracted from bovine bones by three different methods: Extraction of biologically desirable HAp. Materials Science and Engineering C, 2008, 28, 1381-1387.	7.3	151
22	Graphene wrapped MnO2-nanostructures as effective and stable electrode materials for capacitive deionization desalination technology. Desalination, 2014, 344, 289-298.	8.2	151
23	Production of Smooth and Pure Nickel Metal Nanofibers by the Electrospinning Technique: Nanofibers Possess Splendid Magnetic Properties. Journal of Physical Chemistry C, 2009, 113, 531-536.	3.1	141
24	Electrospun antimicrobial polyurethane nanofibers containing silver nanoparticles for biotechnological applications. Macromolecular Research, 2009, 17, 688-696.	2.4	139
25	The effect of molecular weight and the linear velocity of drum surface on the properties of electrospun poly(ethylene terephthalate) nonwovens. Fibers and Polymers, 2004, 5, 122-127.	2.1	130
26	Flexible 3D Nanoporous Graphene for Desalination and Bio-decontamination of Brackish Water via Asymmetric Capacitive Deionization. ACS Applied Materials & Interfaces, 2016, 8, 25313-25325.	8.0	123
27	Influence of CdO-doping on the photoluminescence properties of ZnO nanofibers: Effective visible light photocatalyst for waste water treatment. Journal of Luminescence, 2012, 132, 1668-1677.	3.1	121
28	Cobalt nanofibers encapsulated in a graphite shell by an electrospinning process. Journal of Materials Chemistry, 2009, 19, 7371.	6.7	120
29	Hollow carbon nanofibers as an effective electrode for brackish water desalination using the capacitive deionization process. New Journal of Chemistry, 2014, 38, 198-205.	2.8	118
30	Synthesis and characterization of reduced graphene oxide decorated with CeO2-doped MnO2 nanorods for supercapacitor applications. Journal of Colloid and Interface Science, 2017, 494, 338-344.	9.4	118
31	CoNi Bimetallic Nanofibers by Electrospinning: Nickel-Based Soft Magnetic Material with Improved Magnetic Properties. Journal of Physical Chemistry C, 2010, 114, 15589-15593.	3.1	117
32	Titanium dioxide nanofibers prepared by using electrospinning method. Fibers and Polymers, 2004, 5, 105-109.	2.1	115
33	Fabrication of highly porous poly (É›-caprolactone) fibers for novel tissue scaffold via water-bath electrospinning. Colloids and Surfaces B: Biointerfaces, 2011, 88, 587-592.	5.0	114
34	Influence of temperature on the photodegradation process using Ag-doped TiO2 nanostructures: Negative impact with the nanofibers. Journal of Molecular Catalysis A, 2013, 366, 333-340.	4.8	113
35	Cobalt/copper-decorated carbon nanofibers as novel non-precious electrocatalyst for methanol electrooxidation. Nanoscale Research Letters, 2014, 9, 2.	5.7	112
36	Integrated hybrid of graphitic carbon-encapsulated CuxO on multilayered mesoporous carbon from copper MOFs and polyaniline for asymmetric supercapacitor and oxygen reduction reactions. Carbon, 2021, 179, 89-99.	10.3	110

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37	Multi-walled carbon nanotubes/TiO2 composite nanofiber by electrospinning. Materials Science and Engineering C, 2008, 28, 75-79.	7.3	109
38	Polymeric nanofibers containing solid nanoparticles prepared by electrospinning and their applications. Chemical Engineering Journal, 2010, 156, 487-495.	12.7	105
39	Synthesis and characterization of hydroxyapatite using carbon nanotubes as a nano-matrix. Scripta Materialia, 2006, 54, 131-135.	5.2	104
40	Electrospun nonwovens of shape-memory polyurethane block copolymers. Journal of Applied Polymer Science, 2005, 96, 460-465.	2.6	103
41	Hydrophilic nanofibrous structure of polylactide; fabrication and cell affinity. Journal of Biomedical Materials Research - Part A, 2006, 78A, 247-257.	4.0	103
42	Effect of successive electrospinning and the strength of hydrogen bond on the morphology of electrospun nylon-6 nanofibers. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 370, 87-94.	4.7	103
43	Photocatalytic TiO2â€“RGO/nylon-6 spider-wave-like nano-nets via electrospinning and hydrothermal treatment. Journal of Membrane Science, 2013, 429, 225-234.	8.2	103
44	Facile Synthesis of Core/Shell-like NiCo2O4-Decorated MWCNTs and its Excellent Electrocatalytic Activity for Methanol Oxidation. Scientific Reports, 2016, 6, 20313.	3.3	102
45	Preparation of polyamide-6/chitosan composite nanofibers by a single solvent system via electrospinning for biomedical applications. Colloids and Surfaces B: Biointerfaces, 2011, 83, 173-178.	5.0	100
46	In-situ synthesis of nanofibers with various ratios of BiOClx/BiOBry/BiOIz for effective trichloroethylene photocatalytic degradation. Applied Surface Science, 2016, 384, 192-199.	6.1	100
47	The photoluminescence properties of zinc oxide nanofibres prepared by electrospinning. Nanotechnology, 2004, 15, 320-323.	2.6	98
48	Study of electrolyte induced aggregation of gold nanoparticles capped by amino acids. Journal of Colloid and Interface Science, 2006, 299, 191-197.	9.4	98
49	Synthesis and photocatalytic activities of CdS/TiO2 nanoparticles supported on carbon nanofibers for high efficient adsorption and simultaneous decomposition of organic dyes. Journal of Colloid and Interface Science, 2014, 434, 159-166.	9.4	98
50	Antibacterial activity and interaction mechanism of electrospun zinc-doped titania nanofibers. Applied Microbiology and Biotechnology, 2012, 93, 743-751.	3.6	97
51	Influence of the nanofibrous morphology on the catalytic activity of NiO nanostructures: an effective impact toward methanol electrooxidation. Nanoscale Research Letters, 2013, 8, 402.	5.7	97
52	In-built fabrication of MOF assimilated B/N co-doped 3D porous carbon nanofiber network as a binder-free electrode for supercapacitors. Electrochimica Acta, 2019, 301, 209-219.	5.2	96
53	Emu oil-based electrospun nanofibrous scaffolds for wound skin tissue engineering. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 415, 454-460.	4.7	93
54	Carbon nanofibers wrapped with zinc oxide nano-flakes as promising electrode material for supercapacitors. Journal of Colloid and Interface Science, 2018, 522, 40-47.	9.4	92

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55	Poly(Îµ-caprolactone) filled with electrospun nylon fibres: A model for a facile composite fabrication. European Polymer Journal, 2010, 46, 968-976.	5.4	91
56	Characterization and antibacterial properties of Ag NPs loaded nylon-6 nanocomposite prepared by one-step electrospinning process. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 395, 94-99.	4.7	90
57	Flexible transparent electrode based on PANi nanowire/nylon nanofiber reinforced cellulose acetate thin film as supercapacitor. Chemical Engineering Journal, 2015, 273, 603-609.	12.7	87
58	A ZIF-8-derived nanoporous carbon nanocomposite wrapped with Co3O4-polyaniline as an efficient electrode material for an asymmetric supercapacitor. Journal of Electroanalytical Chemistry, 2020, 856, 113670.	3.8	87
59	Surface Plasmon Resonances, Optical Properties, and Electrical Conductivity Thermal Hystersis of Silver Nanofibers Produced by the Electrospinning Technique. Langmuir, 2008, 24, 11982-11987.	3.5	85
60	Graphene/SnO2 nanocomposite as an effective electrode material for saline water desalination using capacitive deionization. Ceramics International, 2014, 40, 14627-14634.	4.8	83
61	Carbon nanotubes assisted biomimetic synthesis of hydroxyapatite from simulated body fluid. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 426, 202-207.	5.6	82
62	Photocatalytic activity of ZnO-TiO2 hierarchical nanostructure prepared by combined electrospinning and hydrothermal techniques. Macromolecular Research, 2010, 18, 233-240.	2.4	81
63	Facile one pot sonochemical synthesis of CoFe2O4/MWCNTs hybrids with well-dispersed MWCNTs for asymmetric hybrid supercapacitor applications. International Journal of Hydrogen Energy, 2020, 45, 3073-3085.	7.1	81
64	Polypyrrole-Decorated Hierarchical NiCo2O4 Nanoneedles/Carbon Fiber Papers for Flexible High-Performance Supercapacitor Applications. Electrochimica Acta, 2017, 247, 524-534.	5.2	80
65	Nitrogen doped graphene quantum dots (N-GQDs)/Co3O4 composite material as an efficient bi-functional electrocatalyst for oxygen evolution and oxygen reduction reactions. International Journal of Hydrogen Energy, 2018, 43, 4726-4737.	7.1	80
66	Highly flexible, erosion resistant and nitrogen doped hollow SiC fibrous mats for high temperature thermal insulators. Journal of Materials Chemistry A, 2017, 5, 2664-2672.	10.3	77
67	Synthesis, characterization, and photocatalytic properties of ZnO nano-flower containing TiO2 NPs. Ceramics International, 2012, 38, 2943-2950.	4.8	76
68	Engineering the abundant heterointerfaces of integrated bimetallic sulfide-coupled 2D MOF-derived mesoporous CoS2 nanoarray hybrids for electrocatalytic water splitting. Materials Today Nano, 2022, 17, 100146.	4.6	76
69	N-Acylated chitosan stabilized iron oxide nanoparticles as a novel nano-matrix and ceramic modification. Carbohydrate Polymers, 2007, 69, 467-477.	10.2	73
70	Inactivation of pathogenic Klebsiella pneumoniae by CuO/TiO2 nanofibers: A multifunctional nanomaterial via one-step electrospinning. Ceramics International, 2012, 38, 4525-4532.	4.8	72
71	Expeditious and eco-friendly fabrication of highly uniform microflower superstructures and their applications in highly durable methanol oxidation and high-performance supercapacitors. Journal of Materials Chemistry A, 2016, 4, 12253-12262.	10.3	72
72	Engineering the Hierarchical Heterostructures of Znâ€“Niâ€“Co Nanoneedles Arrays@Coâ€“Ni-LDH Nanosheets Coreâ€“Sheath Electrodes for a Hybrid Asymmetric Supercapacitor with High Energy Density and Excellent Cyclic Stability. ACS Applied Energy Materials, 2020, 3, 7383-7396.	5.1	72

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73	Construction of iron doped cobalt- vanadate- cobalt oxide with metal-organic framework oriented nanoflakes for portable rechargeable zinc-air batteries powered total water splitting. Nano Energy, 2021, 88, 106238.	16.0	72
74	Green synthesis of fluorescent carbon dots from carrot juice for in vitro cellular imaging. Carbon Letters, 2017, 21, 61-67.	5.9	68
75	Influence of Nitrogen doping on the Catalytic Activity of Ni-incorporated Carbon Nanofibers for Alkaline Direct Methanol Fuel Cells. Electrochimica Acta, 2014, 142, 228-239.	5.2	66
76	Moderated surface defects of Ni particles encapsulated with NiO nanofibers as supercapacitor with high capacitance and energy density. Journal of Colloid and Interface Science, 2017, 500, 155-163.	9.4	66
77	Nanofibrous mats of poly(trimethylene terephthalate) via electrospinning. Polymer, 2004, 45, 295-301.	3.8	65
78	Effective NiCu NPs-doped carbon nanofibers as counter electrodes for dye-sensitized solar cells. Electrochimica Acta, 2013, 102, 142-148.	5.2	65
79	Designed Assembly of Porous Cobalt Oxide/Carbon Nanotentacles on Electrospun Hollow Carbon Nanofibers Network for Supercapacitor. ACS Applied Energy Materials, 2020, 3, 3435-3444.	5.1	65
80	Co/CeO2-decorated carbon nanofibers as effective non-precious electro-catalyst for fuel cells application in alkaline medium. Ceramics International, 2015, 41, 2271-2278.	4.8	64
81	A facile ultrasonic-assisted fabrication of nitrogen-doped carbon dots/BiOBr up-conversion nanocomposites for visible light photocatalytic enhancements. Scientific Reports, 2017, 7, 45086.	3.3	64
82	Templated fabrication of perfectly aligned metal-organic framework-supported iron-doped copper-cobalt selenide nanostructure on hollow carbon nanofibers for an efficient trifunctional electrode material. Applied Catalysis B: Environmental, 2021, 293, 120209.	20.2	64
83	Hydroxyapatite Mineralization on the Calcium Chloride Blended Polyurethane Nanofiber via Biomimetic Method. Nanoscale Research Letters, 2011, 6, 2.	5.7	63
84	Development of multi-channel carbon nanofibers as effective electrosorptive electrodes for a capacitive deionization process. Journal of Materials Chemistry A, 2013, 1, 11001.	10.3	63
85	Influence of copper content on the electrocatalytic activity toward methanol oxidation of CoÏ‡Cuy alloy nanoparticles-decorated CNFs. Scientific Reports, 2015, 5, 16695.	3.3	63
86	Cobalt-incorporated, nitrogen-doped carbon nanofibers as effective non-precious catalyst for methanol electrooxidation in alkaline medium. Applied Catalysis A: General, 2015, 498, 230-240.	4.3	62
87	Metal-organic framework assisted vanadium oxide nanorods as efficient electrode materials for water oxidation. Journal of Colloid and Interface Science, 2022, 618, 475-482.	9.4	62
88	Chemically stable electrospun NiCu nanorods@carbon nanofibers for highly efficient dehydrogenation of ammonia borane. International Journal of Hydrogen Energy, 2012, 37, 17715-17723.	7.1	61
89	Effect of lactic acid on polymer crystallization chain conformation and fiber morphology in an electrospun nylon-6 mat. Polymer, 2011, 52, 4851-4856.	3.8	60
90	Novel magnetically separable silver-iron oxide nanoparticles decorated graphitic carbon nitride nano-sheets: A multifunctional photocatalyst via one-step hydrothermal process. Journal of Colloid and Interface Science, 2017, 496, 343-352.	9.4	60

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91	Ethanol electro-oxidation using cadmium-doped cobalt/carbon nanoparticles as novel non precious electrocatalyst. Applied Catalysis A: General, 2013, 455, 193-198.	4.3	59
92	Synthesis and characterization of bovine femur bone hydroxyapatite containing silver nanoparticles for the biomedical applications. Journal of Nanoparticle Research, 2011, 13, 1917-1927.	1.9	58
93	Effect of collector temperature on the porous structure of electrospun fibers. Macromolecular Research, 2006, 14, 59-65.	2.4	57
94	Synthesis and film formation of ironâ€“cobalt nanofibers encapsulated in graphite shell: magnetic, electric and optical properties study. Journal of Materials Chemistry, 2011, 21, 10957.	6.7	56
95	Encapsulation of CdO/ZnO NPs in PU electrospun nanofibers as novel strategy for effective immobilization of the photocatalysts. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 401, 8-16.	4.7	56
96	Formation of electrospun nylon-6/methoxy poly(ethylene glycol) oligomer spider-wave nanofibers. Materials Letters, 2010, 64, 2087-2090.	2.6	55
97	Pdâ€“Co-doped carbon nanofibers with photoactivity as effective counter electrodes for DSSCs. Chemical Engineering Journal, 2012, 211-212, 9-15.	12.7	55
98	Catalytic hydrolysis of ammonia borane for hydrogen generation using Cu(0) nanoparticles supported on TiO 2 nanofibers. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 470, 194-201.	4.7	55
99	Effective photocatalytic efficacy of hydrothermally synthesized silver phosphate decorated titanium dioxide nanocomposite fibers. Journal of Colloid and Interface Science, 2016, 465, 225-232.	9.4	55
100	Polydopamine-based Implantable Multifunctional Nanocarpet for Highly Efficient Photothermal-chemo Therapy. Scientific Reports, 2019, 9, 2943.	3.3	55
101	Structural, thermal, mechanical and bioactivity evaluation of silver-loaded bovine bone hydroxyapatite grafted poly(Îµ-caprolactone) nanofibers via electrospinning. Surface and Coatings Technology, 2010, 205, 174-181.	4.8	54
102	Superâ€Stable, Highly Efficient, and Recyclable Fibrous Metalâ€“Organic Framework Membranes for Precious Metal Recovery from Strong Acidic Solutions. Small, 2019, 15, e1805242.	10.0	54
103	Hydrophobically modified chitosan/gold nanoparticles for DNA delivery. Journal of Nanoparticle Research, 2008, 10, 151-162.	1.9	53
104	Enhanced mechanical properties of multilayer nanoâ€coated electrospun nylon 6 fibers via a layerâ€byâ€layer selfâ€assembly. Journal of Applied Polymer Science, 2008, 107, 2211-2216.	2.6	53
105	Lecithin blended polyamide-6 high aspect ratio nanofiber scaffolds via electrospinning for human osteoblast cell culture. Materials Science and Engineering C, 2011, 31, 486-493.	7.3	53
106	Electrospun Cu-doped titania nanofibers for photocatalytic hydrolysis of ammonia borane. Applied Catalysis A: General, 2013, 467, 98-106.	4.3	53
107	Controlled Selenium Infiltration of Cobalt Phosphide Nanostructure Arrays from a Two-Dimensional Cobalt Metalâ€“Organic Framework: A Self-Supported Electrode for Flexible Quasi-Solid-State Asymmetric Supercapacitors. ACS Applied Energy Materials, 2021, 4, 404-415.	5.1	53
108	Laboratory formulated magnetic nanoparticles for enhancement of viral gene expression in suspension cell line. Journal of Virological Methods, 2008, 147, 213-218.	2.1	52

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109	Electronic characterization and photocatalytic properties of TiO2/CdO electrospun nanofibers. Journal of Materials Science, 2010, 45, 1272-1279.	3.7	52
110	Enhanced bactericidal effect of novel CuO/TiO2 composite nanorods and a mechanism thereof. Composites Part B: Engineering, 2013, 45, 904-910.	12.0	52
111	Oxalic acid assisted rapid synthesis of mesoporous NiCo2O4 nanorods as electrode materials with higher energy density and cycle stability for high-performance asymmetric hybrid supercapacitor applications. Journal of Colloid and Interface Science, 2020, 564, 65-76.	9.4	52
112	Preparation and characterization of H4SiMo12O40/poly(vinyl alcohol) fiber mats produced by an electrospinning method. Journal of Applied Polymer Science, 2003, 89, 1573-1578.	2.6	51
113	Mechanical behaviors and characterization of electrospun polysulfone/polyurethane blend nonwovens. Macromolecular Research, 2006, 14, 331-337.	2.4	51
114	Effect of polymer molecular weight on the fiber morphology of electrospun mats. Journal of Colloid and Interface Science, 2011, 364, 107-111.	9.4	51
115	Spectroscopic investigations on the photodegradation of toluidine blue dye using cadmium sulphide nanoparticles prepared by a novel method. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2011, 78, 1592-1598.	3.9	51
116	Novel Cd-doped Co/C nanoparticles for electrochemical supercapacitors. Materials Letters, 2013, 99, 168-171.	2.6	51
117	High-efficiency super capacitors based on hetero-structured Î±-MnO2 nanorods. Journal of Alloys and Compounds, 2015, 642, 210-215.	5.5	51
118	Hybrid Electrodes Based on Znâ€“Niâ€“Co Ternary Oxide Nanowires and Nanosheets for Ultra-High-Rate Asymmetric Supercapacitors. ACS Applied Nano Materials, 2020, 3, 8679-8690.	5.0	51
119	Synthesis of poly(vinyl alcohol) (PVA) nanofibers incorporating hydroxyapatite nanoparticles as future implant materials. Macromolecular Research, 2010, 18, 59-66.	2.4	50
120	A multicore-shell architecture with a phase-selective (Î±Â+ÂÎ´)MnO2 shell for an aqueous-KOH-based supercapacitor with high operating potential. Chemical Engineering Journal, 2020, 387, 124028.	12.7	50
121	Functionalization of Electrospun Titanium Oxide Nanofibers with Silver Nanoparticles: Strongly Effective Photocatalyst. International Journal of Applied Ceramic Technology, 2010, 7, E54.	2.1	49
122	Improvement of tensile properties and tuning of the biodegradation behavior of polycaprolactone by addition of electrospun fibers. Polymer, 2011, 52, 4054-4060.	3.8	49
123	Self-assembled polypyrrole hierarchical porous networks as the cathode and porous three dimensional carbonaceous networks as the anode materials for asymmetric supercapacitor. Journal of Energy Storage, 2021, 33, 102080.	8.1	48
124	Novel amphiphilic triblock copolymer based on PPDO, PCL, and PEG: Synthesis, characterization, and aqueous dispersion. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 292, 69-78.	4.7	47
125	Influence of Cobalt Nanoparticlesâ€™ Incorporation on the Magnetic Properties of the Nickel Nanofibers: Cobalt-Doped Nickel Nanofibers Prepared by Electrospinning. Journal of Physical Chemistry C, 2009, 113, 19452-19457.	3.1	47
126	Zeolitic imidazolate framework derived Co3S4 hybridized MoS2â€“Ni3S2 heterointerface for electrochemical overall water splitting reactions. Electrochimica Acta, 2020, 334, 135537.	5.2	47

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127	Characterization and antibacterial activity of rice grain-shaped ZnS nanoparticles immobilized inside the polymer electrospun nanofibers. Advanced Composites and Hybrid Materials, 2020, 3, 8-15.	21.1	47
128	N-hexanoyl chitosan-stabilized magnetic nanoparticles: enhancement of adenoviral-mediated gene expression both in vitro and in vivo. Nanomedicine: Nanotechnology, Biology, and Medicine, 2008, 4, 146-154.	3.3	46
129	Cadmium-doped cobalt/carbon nanoparticles asÂnovel nonprecious electrocatalyst for methanol oxidation. International Journal of Hydrogen Energy, 2013, 38, 3387-3394.	7.1	46
130	Copper//terbium dual metal organic frameworks incorporated side-by-side electrospun nanofibrous membrane: A novel tactics for an efficient adsorption of particulate matter and luminescence property. Journal of Colloid and Interface Science, 2020, 578, 155-163.	9.4	46
131	Preparation of electrospun oxidized cellulose mats and theirin vitro degradation behavior. Macromolecular Research, 2005, 13, 62-67.	2.4	45
132	Effective and highly recyclable nanosilica produced from the rice husk for effective removal of organic dyes. Journal of Industrial and Engineering Chemistry, 2015, 29, 134-145.	5.8	45
133	Facile synthesis and characterization of carbon quantum dots and photovoltaic applications. Thin Solid Films, 2018, 660, 672-677.	1.8	44
134	Three-dimensional porous carbonaceous network with in-situ entrapped metallic cobalt for supercapacitor application. Journal of Colloid and Interface Science, 2019, 553, 622-630.	9.4	44
135	A metalâ€“organic framework derived cobalt oxide/nitrogen-doped carbon nanotube nanotentacles on electrospun carbon nanofiber for electrochemical energy storage. Chemical Engineering Journal, 2021, 420, 129679.	12.7	44
136	Characterization of PVOH nonwoven mats prepared from Surfactant-Polymer system via electrospinning. Macromolecular Research, 2005, 13, 385-390.	2.4	43
137	Immobilization of collagen on gold nanoparticles: preparation, characterization, and hydroxyapatite growth. Journal of Materials Chemistry, 2006, 16, 4642.	6.7	43
138	Fabrication of Nonmetal-Modulated Dual Metalâ€“Organic Platform for Overall Water Splitting and Rechargeable Zincâ€“Air Batteries. ACS Applied Materials & Interfaces, 2020, 12, 41704-41717.	8.0	43
139	Integrating the Essence of a Metalâ€“Organic Framework with Electrospinning: A New Approach for Making a Metal Nanoparticle Confined N-Doped Carbon Nanotubes/Porous Carbon Nanofibrous Membrane for Energy Storage and Conversion. ACS Applied Materials & Interfaces, 2021, 13, 23732-23742.	8.0	43
140	Preparation and characterizations of anisotropic chitosan nanofibers via electrospinning. Macromolecular Research, 2011, 19, 345-350.	2.4	42
141	Encapsulation of CoS nanoparticles in PAN electrospun nanofibers: Effective and reusable catalyst for ammonia borane hydrolysis and dyes photodegradation. Ceramics International, 2013, 39, 1469-1476.	4.8	42
142	Vertically Aligned Metalâ€“Organic Framework Derived from Sacrificial Cobalt Nanowire Template Interconnected with Nickel Foam Supported Selenite Network as an Integrated 3D Electrode for Overall Water Splitting. Inorganic Chemistry, 2020, 59, 3817-3827.	4.0	42
143	Formation of high aspect ratio polyamide-6 nanofibers via electrically induced double layer during electrospinning. Applied Surface Science, 2010, 256, 6318-6323.	6.1	41
144	Photocatalytic release of hydrogen from ammonia borane-complex using Ni(0)-doped TiO2/C electrospun nanofibers. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 410, 59-65.	4.7	41

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145	Metal-organic frameworkâ€“assisted bimetallic Ni@Cu microsphere for enzyme-free electrochemical sensing of glucose. Journal of Electroanalytical Chemistry, 2020, 873, 114356.	3.8	41
146	Encapsulation of Fe₃O₄in gelatin nanoparticles: Effect of different parameters on size and stability of the colloidal dispersion. Journal of Microencapsulation, 2008, 25, 21-30.	2.8	40
147	Nano-engineered ZnO/CeO2 dots@CNFs for fuel cell application. Arabian Journal of Chemistry, 2016, 9, 219-228.	4.9	40
148	Graphite Sheets as Highâ€Performance Lowâ€Cost Anodes for Microbial Fuel Cells Using Real Food Wastewater. Chemical Engineering and Technology, 2017, 40, 2243-2250.	1.5	40
149	Breakthroughs in the fabrication of electrospun-nanofiber-supported thin film composite/nanocomposite membranes for the forward osmosis process: A review. Critical Reviews in Environmental Science and Technology, 2020, 50, 1727-1795.	12.8	40
150	Mesoporous nickel hydroxyapatite nanocomposite for microwave-assisted Henry reaction. Tetrahedron Letters, 2012, 53, 2980-2984.	1.4	39
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