

Nasser A. M. Barakat

List of Publications by Year in descending order

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240
papers

10,093
citations

30070

54
h-index

54911

84
g-index

243
all docs

243
docs citations

243
times ranked

10062
citing authors

#	ARTICLE	IF	CITATIONS
1	Wound-dressing materials with antibacterial activity from electrospun polyurethane-dextran nanofiber mats containing ciprofloxacin HCl. <i>Carbohydrate Polymers</i> , 2012, 90, 1786-1793.	10.2	404
2	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.	6.3	280
3	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.	3.1	216
4	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.	3.8	208
5	Effective and reusable oil/water separation membranes based on modified polysulfone electrospun nanofiber mats. <i>Chemical Engineering Journal</i> , 2015, 259, 449-456.	12.7	160
6	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.	7.3	151
7	Graphene wrapped MnO ₂ -nanostructures as effective and stable electrode materials for capacitive deionization desalination technology. <i>Desalination</i> , 2014, 344, 289-298.	8.2	151
8	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.	3.1	141
9	Electrospun antimicrobial polyurethane nanofibers containing silver nanoparticles for biotechnological applications. <i>Macromolecular Research</i> , 2009, 17, 688-696.	2.4	139
10	Ni&Mn nanoparticles-decorated carbon nanofibers as effective electrocatalyst for urea oxidation. <i>Applied Catalysis A: General</i> , 2016, 510, 180-188.	4.3	139
11	Amorphous SiO ₂ NP-Incorporated Poly(vinylidene fluoride) Electrospun Nanofiber Membrane for High Flux Forward Osmosis Desalination. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4561-4574.	8.0	131
12	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.	4.8	129
13	TiO ₂ nanorod-intercalated reduced graphene oxide as high performance electrode material for membrane capacitive deionization. <i>Desalination</i> , 2015, 361, 53-64.	8.2	127
14	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.	3.1	121
15	Cobalt nanofibers encapsulated in a graphite shell by an electrospinning process. <i>Journal of Materials Chemistry</i> , 2009, 19, 7371.	6.7	120
16	Effective polysulfone-amorphous SiO ₂ NPs electrospun nanofiber membrane for high flux oil/water separation. <i>Chemical Engineering Journal</i> , 2015, 279, 631-638.	12.7	119
17	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.	2.8	118
18	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.	3.1	117

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19	Ni _x Co _{1-x} alloy nanoparticle-doped carbon nanofibers as effective non-precious catalyst for ethanol oxidation. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 305-316.	7.1	117
20	Hydroxyapatite-doped poly(lactic acid) porous film coating for enhanced bioactivity and corrosion behavior of AZ31 Mg alloy for orthopedic applications. <i>Ceramics International</i> , 2013, 39, 183-195.	4.8	116
21	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.	4.8	113
22	Cobalt/copper-decorated carbon nanofibers as novel non-precious electrocatalyst for methanol electrooxidation. <i>Nanoscale Research Letters</i> , 2014, 9, 2.	5.7	112
23	CoxNiy-decorated graphene as novel, stable and super effective non-precious electro-catalyst for methanol oxidation. <i>Applied Catalysis B: Environmental</i> , 2014, 154-155, 221-231.	20.2	112
24	Polymeric nanofibers containing solid nanoparticles prepared by electrospinning and their applications. <i>Chemical Engineering Journal</i> , 2010, 156, 487-495.	12.7	105
25	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, 159-166.	9.4	98
26	Antibacterial activity and interaction mechanism of electrospun zinc-doped titania nanofibers. <i>Applied Microbiology and Biotechnology</i> , 2012, 93, 743-751.	3.6	97
27	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.	5.7	97
28	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.	4.7	93
29	Surface Plasmon Resonances, Optical Properties, and Electrical Conductivity Thermal Hysteresis of Silver Nanofibers Produced by the Electrospinning Technique. <i>Langmuir</i> , 2008, 24, 11982-11987.	3.5	85
30	Enhanced desalination performance of capacitive deionization using zirconium oxide nanoparticles-doped graphene oxide as a novel and effective electrode. <i>Separation and Purification Technology</i> , 2016, 171, 34-43.	7.9	84
31	Graphene/SnO ₂ nanocomposite as an effective electrode material for saline water desalination using capacitive deionization. <i>Ceramics International</i> , 2014, 40, 14627-14634.	4.8	83
32	Photocatalytic activity of ZnO-TiO ₂ hierarchical nanostructure prepared by combined electrospinning and hydrothermal techniques. <i>Macromolecular Research</i> , 2010, 18, 233-240.	2.4	81
33	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.	11.3	81
34	Nickel nanoparticles-decorated graphene as highly effective and stable electrocatalyst for urea electrooxidation. <i>Journal of Molecular Catalysis A</i> , 2016, 421, 83-91.	4.8	77
35	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.	4.8	72
36	Influence of electrospinning and dip-coating techniques on the degradation and cytocompatibility of Mg-based alloy. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 420, 37-45.	4.7	71

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37	Electrocatalytic behavior of a nanocomposite of Ni/Pd supported by carbonized PVA nanofibers towards formic acid, ethanol and urea oxidation: A physicochemical and electro-analysis study. <i>Applied Surface Science</i> , 2018, 435, 122-129.	6.1	69
38	Electrospun CdS@TiO ₂ doped carbon nanofibers for visible-light-induced photocatalytic hydrolysis of ammonia borane. <i>Catalysis Communications</i> , 2014, 50, 63-68.	3.3	68
39	Ni-Cd carbon nanofibers as an effective catalyst for urea fuel cell. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 332-337.	6.7	68
40	ZrO ₂ nanofibers/activated carbon composite as a novel and effective electrode material for the enhancement of capacitive deionization performance. <i>RSC Advances</i> , 2017, 7, 4616-4626.	3.6	67
41	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.	5.2	66
42	Carbon nanofibers doped by Ni x Co 1~x alloy nanoparticles as effective and stable non precious electrocatalyst for methanol oxidation in alkaline media. <i>Journal of Molecular Catalysis A</i> , 2014, 394, 177-187.	4.8	66
43	Effective NiCu NPs-doped carbon nanofibers as counter electrodes for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2013, 102, 142-148.	5.2	65
44	High performance of NiCo nanoparticles-doped carbon nanofibers as counter electrode for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2015, 160, 1-6.	5.2	64
45	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.	4.8	64
46	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.	10.3	63
47	Influence of copper content on the electrocatalytic activity toward methanol oxidation of Co~Cu _y alloy nanoparticles-decorated CNFs. <i>Scientific Reports</i> , 2015, 5, 16695.	3.3	63
48	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.	4.3	62
49	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.	7.1	61
50	Novel self-assembled amphiphilic poly(Î-caprolactone)-grafted-poly(vinyl alcohol) nanoparticles: hydrophobic and hydrophilic drugs carrier nanoparticles. <i>Journal of Materials Science: Materials in Medicine</i> , 2009, 20, 821-831.	3.6	60
51	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.	3.8	60
52	Ethanol electro-oxidation using cadmium-doped cobalt/carbon nanoparticles as novel non precious electrocatalyst. <i>Applied Catalysis A: General</i> , 2013, 455, 193-198.	4.3	59
53	Yeast Extract as an Effective and Safe Mediator for the Bakerâ€™s-Yeast-Based Microbial Fuel Cell. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 3116-3122.	3.7	57
54	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.	6.7	56

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55	Encapsulation of CdO/ZnO NPs in PU electrospun nanofibers as novel strategy for effective immobilization of the photocatalysts. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012, 401, 8-16.	4.7	56
56	Pd-Co-doped carbon nanofibers with photoactivity as effective counter electrodes for DSSCs. <i>Chemical Engineering Journal</i> , 2012, 211-212, 9-15.	12.7	55
57	Catalytic hydrolysis of ammonia borane for hydrogen generation using Cu(0) nanoparticles supported on TiO ₂ nanofibers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 470, 194-201.	4.7	55
58	Demonstrated photons to electron activity of S-doped TiO ₂ nanofibers as photoanode in the DSSC. <i>Materials Letters</i> , 2018, 225, 77-81.	2.6	55
59	Electrospun Cu-doped titania nanofibers for photocatalytic hydrolysis of ammonia borane. <i>Applied Catalysis A: General</i> , 2013, 467, 98-106.	4.3	53
60	Electronic characterization and photocatalytic properties of TiO ₂ /CdO electrospun nanofibers. <i>Journal of Materials Science</i> , 2010, 45, 1272-1279.	3.7	52
61	Novel Cd-doped Co/C nanoparticles for electrochemical supercapacitors. <i>Materials Letters</i> , 2013, 99, 168-171.	2.6	51
62	High-Efficiency Electrode Based on Nitrogen-Doped TiO ₂ Nanofibers for Dye-Sensitized Solar Cells. <i>Electrochimica Acta</i> , 2014, 115, 493-498.	5.2	51
63	High-efficiency super capacitors based on hetero-structured Zn-MnO ₂ nanorods. <i>Journal of Alloys and Compounds</i> , 2015, 642, 210-215.	5.5	51
64	Cobalt oxides-sheathed cobalt nano flakes to improve surface properties of carbonaceous electrodes utilized in microbial fuel cells. <i>Chemical Engineering Journal</i> , 2017, 326, 497-506.	12.7	51
65	Synthesis of poly(vinyl alcohol) (PVA) nanofibers incorporating hydroxyapatite nanoparticles as future implant materials. <i>Macromolecular Research</i> , 2010, 18, 59-66.	2.4	50
66	Functionalization of Electrospun Titanium Oxide Nanofibers with Silver Nanoparticles: Strongly Effective Photocatalyst. <i>International Journal of Applied Ceramic Technology</i> , 2010, 7, E54.	2.1	49
67	Design of an efficient photoanode for dye-sensitized solar cells using electrospun one-dimensional GO/N-doped nanocomposite SnO ₂ /TiO ₂ . <i>Applied Surface Science</i> , 2017, 400, 355-364.	6.1	48
68	Influence of Mn, Cu, and Cd-doping for titanium oxide nanotubes on the photocatalytic activity toward water splitting under visible light irradiation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 554, 100-109.	4.7	48
69	Influence of Cobalt Nanoparticles Incorporation on the Magnetic Properties of the Nickel Nanofibers: Cobalt-Doped Nickel Nanofibers Prepared by Electrospinning. <i>Journal of Physical Chemistry C</i> , 2009, 113, 19452-19457.	3.1	47
70	Enhanced onset potential NiMn-decorated activated carbon as effective and applicable anode in urea fuel cells. <i>Catalysis Communications</i> , 2017, 97, 32-36.	3.3	47
71	Cadmium-doped cobalt/carbon nanoparticles as a novel nonprecious electrocatalyst for methanol oxidation. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 3387-3394.	7.1	46
72	Effective and highly recyclable ceramic membrane based on amorphous nanosilica for dye removal from the aqueous solutions. <i>Arabian Journal of Chemistry</i> , 2016, 9, 287-296.	4.9	46

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73	New electrooxidation characteristic for Ni-based electrodes for wide application in methanol fuel cells. <i>Applied Catalysis A: General</i> , 2018, 555, 148-154.	4.3	46
74	Incorporation of cadmium sulfide nanoparticles on the cadmium titanate nanofibers for enhanced organic dye degradation and hydrogen release. <i>Ceramics International</i> , 2014, 40, 1553-1559.	4.8	45
75	Effective and highly recyclable nanosilica produced from the rice husk for effective removal of organic dyes. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 29, 134-145.	5.8	45
76	Encapsulation of CoS nanoparticles in PAN electrospun nanofibers: Effective and reusable catalyst for ammonia borane hydrolysis and dyes photodegradation. <i>Ceramics International</i> , 2013, 39, 1469-1476.	4.8	42
77	High-efficiency dye-sensitized solar cells based on nitrogen and graphene oxide co-incorporated TiO ₂ nanofibers photoelectrode. <i>Chemical Engineering Journal</i> , 2015, 268, 153-161.	12.7	42
78	Facile synthesis of Ni-decorated multi-layers graphene sheets as effective anode for direct urea fuel cells. <i>Arabian Journal of Chemistry</i> , 2017, 10, 811-822.	4.9	42
79	Photocatalytic release of hydrogen from ammonia borane-complex using Ni(0)-doped TiO ₂ /C electrospun nanofibers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012, 410, 59-65.	4.7	41
80	A TiO ₂ nanofiber/activated carbon composite as a novel effective electrode material for capacitive deionization of brackish water. <i>RSC Advances</i> , 2014, 4, 64634-64642.	3.6	41
81	Influence of nitrogen doping on the electrocatalytic activity of Ni-incorporated carbon nanofibers toward urea oxidation. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 21741-21750.	7.1	41
82	Nano-engineered ZnO/CeO ₂ dots@CNFs for fuel cell application. <i>Arabian Journal of Chemistry</i> , 2016, 9, 219-228.	4.9	40
83	Graphite Sheets as High-Performance Low-Cost Anodes for Microbial Fuel Cells Using Real Food Wastewater. <i>Chemical Engineering and Technology</i> , 2017, 40, 2243-2250.	1.5	40
84	ZnO&Fe ₂ O ₃ -incorporated TiO ₂ nanofibers as super effective photocatalyst for water splitting under visible light radiation. <i>Applied Catalysis A: General</i> , 2014, 481, 19-26.	4.3	39
85	Synthesis and characterization of Co/SrCO ₃ nanorods-decorated carbon nanofibers as novel electrocatalyst for methanol oxidation in alkaline medium. <i>Ceramics International</i> , 2015, 41, 6575-6582.	4.8	39
86	CuO-doped TiO ₂ nanofibers as potential photocatalyst and antimicrobial agent. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 26, 251-258.	5.8	39
87	Influence of bimetallic nanoparticles composition and synthesis temperature on the electrocatalytic activity of NiMn-incorporated carbon nanofibers toward urea oxidation. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 5561-5575.	7.1	39
88	Gelatin stabilized iron oxide nanoparticles as a three dimensional template for the hydroxyapatite crystal nucleation and growth. <i>Materials Science and Engineering C</i> , 2008, 28, 1297-1303.	7.3	38
89	Pd-doped Co nanofibers immobilized on a chemically stable metallic bipolar plate as novel strategy for direct formic acid fuel cells. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 7438-7447.	7.1	38
90	Efficiency enhancement of dye-sensitized solar cells by use of ZrO ₂ -doped TiO ₂ nanofibers photoanode. <i>Journal of Colloid and Interface Science</i> , 2016, 476, 9-19.	9.4	38

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91	Self synthesise of silver nanoparticles in/on polyurethane nanofibers: Nanoâ€biotechnological approach. <i>Journal of Applied Polymer Science</i> , 2010, 115, 3189-3198.	2.6	37
92	Electrospun nickel doped titanium dioxide nanofibers as an effective photocatalyst for the hydrolytic dehydrogenation of ammonia borane. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 10036-10045.	7.1	37
93	Nematic shaped cadmium sulfide doped electrospun nanofiber mat: Highly efficient, reusable, solar light photocatalyst. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012, 409, 21-29.	4.7	37
94	Influence of GO incorporation in TiO ₂ nanofibers on the electrode efficiency in dye-sensitized solar cells. <i>Ceramics International</i> , 2015, 41, 1205-1212.	4.8	37
95	NiSn nanoparticle-incorporated carbon nanofibers as efficient electrocatalysts for urea oxidation and working anodes in direct urea fuel cells. <i>Journal of Advanced Research</i> , 2019, 16, 43-53.	9.5	37
96	Preparation of nanofibers consisting of MnO/Mn ₃ O ₄ by using the electrospinning technique: the nanofibers have two band-gap energies. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 95, 769-776.	2.3	36
97	Effects of silver content and morphology on the catalytic activity of silver-grafted titanium oxide nanostructure. <i>Fibers and Polymers</i> , 2010, 11, 700-709.	2.1	36
98	Zinc oxide's hierarchical nanostructure and its photocatalytic properties. <i>Applied Surface Science</i> , 2012, 258, 3695-3702.	6.1	36
99	Stable and effective super-hydrophilic polysulfone nanofiber mats for oil/water separation. <i>Polymer</i> , 2015, 72, 125-133.	3.8	36
100	Synthesis and characterization of Nitrogen-doped & CaCO ₃ -decorated reduced graphene oxide nanocomposite for electrochemical supercapacitors. <i>Electrochimica Acta</i> , 2015, 184, 193-202.	5.2	36
101	Synthesis of novel SnO ₂ @TiO ₂ nanofibers as an efficient photoanode of dye-sensitized solar cells. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 10578-10589.	7.1	36
102	Nitrogen-doped&SnO ₂ -incoportaed TiO ₂ nanofibers as novel and effective photoanode for enhanced efficiency dye-sensitized solar cells. <i>Chemical Engineering Journal</i> , 2016, 304, 48-60.	12.7	36
103	Synthesis, characterization and performance as a Counter Electrode for dye-sensitized solar cells of CoCr-decorated carbon nanofibers. <i>Ceramics International</i> , 2016, 42, 146-153.	4.8	34
104	A simple approach for synthesis, characterization and bioactivity of bovine bones to fabricate the polyurethane nanofiber containing hydroxyapatite nanoparticles. <i>EXPRESS Polymer Letters</i> , 2012, 6, 41-53.	2.1	33
105	Mn ₂ O ₃ /TiO ₂ nanofibers with broad-spectrum antibiotics effect and photocatalytic activity for preliminary stage of water desalination. <i>Ceramics International</i> , 2013, 39, 2239-2246.	4.8	33
106	Distinct influence for carbon nano-morphology on the activity and optimum metal loading of Ni/C composite used for ethanol oxidation. <i>Electrochimica Acta</i> , 2015, 182, 143-155.	5.2	33
107	Synthesis and characterization of maghemite iron oxide ($\hat{3}$ -Fe ₂ O ₃) nanofibers: novel semiconductor with magnetic feature. <i>Journal of Materials Science</i> , 2012, 47, 6237-6245.	3.7	32
108	Effective photodegradation of methomyl pesticide in concentrated solutions by novel enhancement of the photocatalytic activity of TiO ₂ using CdSO ₄ nanoparticles. <i>Environmental Science and Pollution Research</i> , 2014, 21, 1425-1435.	5.3	32

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109	Incorporating zirconia nanoparticles into activated carbon as electrode material for capacitive deionization. <i>Journal of Alloys and Compounds</i> , 2019, 772, 1079-1087.	5.5	32
110	Synthesis and characterization of Pd-doped Co nanofibers as a multifunctional nanostructure. <i>Materials Letters</i> , 2012, 85, 120-123.	2.6	31
111	Camptothecin loaded poly(μ -caprolactone)nanofibers via one-step electrospinning and their cytotoxicity impact. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 431, 1-8.	4.7	31
112	Electrospun NiO, ZnO and composite NiO@ZnO nanofibers/photocatalytic degradation of dairy effluent. <i>Ceramics International</i> , 2015, 41, 12229-12236.	4.8	31
113	NiCu bimetallic nanoparticle-decorated graphene as novel and cost-effective counter electrode for dye-sensitized solar cells and electrocatalyst for methanol oxidation. <i>Applied Catalysis A: General</i> , 2015, 501, 41-47.	4.3	31
114	Elimination of toxic products formation in vapor-feed passive DMFC operated by absolute methanol using air cathode filter. <i>Chemical Engineering Journal</i> , 2014, 240, 38-44.	12.7	30
115	Power generation from unconditioned industrial wastewaters using commercial membranes-based microbial fuel cells. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 4251-4263.	7.1	30
116	Titanium-based polymeric electrospun nanofiber mats as a novel organic semiconductor. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2012, 177, 34-42.	3.5	29
117	Inactivation of Foodborne Pathogens by NiO/TiO ₂ Composite Nanofibers: A Novel Biomaterial System. <i>Food and Bioprocess Technology</i> , 2013, 6, 988-996.	4.7	29
118	Influence of Ti _x Zr(1-x)O ₂ nanofibers composition on the photocatalytic activity toward organic pollutants degradation and water splitting. <i>Ceramics International</i> , 2015, 41, 11876-11885.	4.8	28
119	Synthesis and Electrochemical Properties of MnO ₂ and Co-Decorated Graphene as Novel Nanocomposite for Electrochemical Super Capacitors Application. <i>Energy and Environment Focus</i> , 2015, 4, 34-39.	0.3	28
120	A novel and chemical stable Co@B nanoflakes-like structure supported over titanium dioxide nanofibers used as catalyst for hydrogen generation from ammonia borane complex. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 285-293.	7.1	28
121	Cobalt/Chromium Nanoparticles-Incorporated Carbon Nanofibers as Effective Nonprecious Catalyst for Methanol Electrooxidation in Alkaline Medium. <i>Nano</i> , 2016, 11, 1650049.	1.0	28
122	Co ₃ O ₄ @ZnO hierarchical nanostructures by electrospinning and hydrothermal methods. <i>Applied Surface Science</i> , 2011, 257, 7975-7981.	6.1	27
123	Catalytic and photo hydrolysis of ammonia borane complex using Pd-doped Co nanofibers. <i>Applied Catalysis A: General</i> , 2013, 451, 21-27.	4.3	27
124	Effective and Stable CoNi Alloy-Loaded Graphene for Ethanol Oxidation in Alkaline Medium. <i>Journal of the Electrochemical Society</i> , 2014, 161, F1194-F1201.	2.9	27
125	In-situ synthesis of Ni/N-doped CNFs-supported graphite disk as effective immobilized catalyst for methanol electrooxidation. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 14845-14856.	7.1	27
126	Super-hydrophilic and highly stable in oils polyamide-polysulfone composite membrane by electrospinning. <i>Materials Letters</i> , 2015, 138, 196-199.	2.6	27

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127	ZnO@C (core@shell) microspheres derived from spent coffee grounds as applicable non-precious electrode material for DMFCs. <i>Scientific Reports</i> , 2017, 7, 1738.	3.3	27
128	Cd-doped TiO ₂ nanofibers as effective working electrode for the dye sensitized solar cells. <i>Materials Letters</i> , 2019, 246, 206-209.	2.6	27
129	Electrospun titanium dioxide nanofibers containing hydroxyapatite and silver nanoparticles as future implant materials. <i>Journal of Materials Science: Materials in Medicine</i> , 2010, 21, 2551-2559.	3.6	26
130	Toward facile synthesizing of diamond nanostructures via nanotechnological approach: Lonsdaleite carbon nanofibers by electrospinning. <i>Materials Research Bulletin</i> , 2012, 47, 2140-2147.	5.2	26
131	Applicable anode based on Co ₃ O ₄ @SrCO ₃ heterostructure nanorods-incorporated CNFs with low-onset potential for DUFCS. <i>Applied Nanoscience (Switzerland)</i> , 2017, 7, 625-631.	3.1	26
132	Synthesis of Fe/Co-doped titanate nanotube as redox catalyst for photon-induced water splitting. <i>Materials Chemistry and Physics</i> , 2018, 217, 125-132.	4.0	26
133	Physiochemical characterizations of nanobelts consisting of three mixed oxides (Co ₃ O ₄ , CuO, and Tj ETQq1 1 0.784314 rgBT /Overlo	3.7	25
134	Self-assembled amphiphilic polyhedral oligosilsesquioxane (POSS) grafted poly(vinyl alcohol) (PVA) nanoparticles. <i>Materials Science and Engineering C</i> , 2009, 29, 869-876.	7.3	25
135	Effective Co@Mn@O nanofibers for ammonia borane hydrolysis. <i>Materials Letters</i> , 2013, 106, 229-232.	2.6	25
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