

Khalil Abdelrazek Khalil

List of Publications by Year in descending order

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87
papers

3,570
citations

126858

33
h-index

149623

56
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88
all docs

88
docs citations

88
times ranked

4872
citing authors

#	ARTICLE	IF	CITATIONS
1	Effective and reusable oil/water separation membranes based on modified polysulfone electrospun nanofiber mats. <i>Chemical Engineering Journal</i> , 2015, 259, 449-456.	6.6	160
2	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.	3.8	151
3	Processing and mechanical properties of porous 316L stainless steel for biomedical applications. <i>Transactions of Nonferrous Metals Society of China</i> , 2007, 17, 468-473.	1.7	140
4	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.	4.0	131
5	TiO ₂ nanorod-intercalated reduced graphene oxide as high performance electrode material for membrane capacitive deionization. <i>Desalination</i> , 2015, 361, 53-64.	4.0	127
6	Effective polysulfone-amorphous SiO ₂ NPs electrospun nanofiber membrane for high flux oil/water separation. <i>Chemical Engineering Journal</i> , 2015, 279, 631-638.	6.6	119
7	Effect of powder loading on metal injection molding stainless steels. <i>Journal of Materials Processing Technology</i> , 2007, 183, 432-439.	3.1	118
8	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.	1.4	118
9	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.	1.5	117
10	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.	3.8	117
11	Toughening mechanisms and mechanical properties of graphene nanosheet-reinforced alumina. <i>Materials and Design</i> , 2015, 88, 1234-1243.	3.3	102
12	Fabrication of novel high performance ductile poly(lactic acid) nanofiber scaffold coated with poly(vinyl alcohol) for tissue engineering applications. <i>Materials Science and Engineering C</i> , 2016, 60, 143-150.	3.8	90
13	Synthesis, characterization, and antimicrobial properties of novel double layer nanocomposite electrospun fibers for wound dressing applications. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 2205-2213.	3.3	85
14	Graphene/SnO ₂ nanocomposite as an effective electrode material for saline water desalination using capacitive deionization. <i>Ceramics International</i> , 2014, 40, 14627-14634.	2.3	83
15	Novel, Facile, Single-Step Technique of Polymer/TiO ₂ Nanofiber Composites Membrane for Photodegradation of Methylene Blue. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 13329-13341.	4.0	80
16	Consolidation and mechanical properties of nanostructured hydroxyapatite (ZrO ₂ +3mol% 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.	2.6	76
17	In-vitro anticancer and antimicrobial activities of PLGA/silver nanofiber composites prepared by electrospinning. <i>Journal of Materials Science: Materials in Medicine</i> , 2014, 25, 1045-1053.	1.7	65
18	High performance of NiCo nanoparticles-doped carbon nanofibers as counter electrode for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2015, 160, 1-6.	2.6	64

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19	Fabrication of core-shell structured nanofibers of poly (lactic acid) and poly (vinyl alcohol) by coaxial electrospinning for tissue engineering. <i>European Polymer Journal</i> , 2018, 98, 483-491.	2.6	64
20	High-Frequency Induction Heat Sintering of Mechanically Alloyed Alumina-Yttria-Stabilized Zirconia Nano-Bioceramics. <i>Journal of the American Ceramic Society</i> , 2006, 89, 1280-1285.	1.9	63
21	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.	5.2	63
22	Effect of high-frequency induction heat sintering conditions on the microstructure and mechanical properties of nanostructured magnesium/hydroxyapatite nanocomposites. <i>Materials & Design</i> , 2012, 36, 58-68.	5.1	61
23	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.	2.3	46
24	A novel simple one-step air jet spinning approach for deposition of poly(vinyl acetate)/hydroxyapatite composite nanofibers on Ti implants. <i>Materials Science and Engineering C</i> , 2015, 49, 681-690.	3.8	43
25	Biocorrosion behavior of biodegradable nanocomposite fibers coated layer-by-layer on AM50 magnesium implant. <i>Materials Science and Engineering C</i> , 2016, 58, 1232-1241.	3.8	43
26	Nitrogen and carbon functionalized cobalt phosphide as efficient non-precious electrocatalysts for oxygen reduction reaction electrocatalysis in alkaline environment. <i>Journal of Electroanalytical Chemistry</i> , 2018, 809, 96-104.	1.9	43
27	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.	2.3	42
28	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.	6.6	42
29	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.	2.3	41
30	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.	1.7	41
31	Effects of copper and titanium on the corrosion behavior of newly fabricated nanocrystalline aluminum in natural seawater. <i>Applied Surface Science</i> , 2014, 301, 142-148.	3.1	41
32	Nano-engineered ZnO/CeO ₂ dots@CNFs for fuel cell application. <i>Arabian Journal of Chemistry</i> , 2016, 9, 219-228.	2.3	40
33	A systematic literature review of the factors influencing the adoption of autonomous driving. <i>International Journal of Systems Assurance Engineering and Management</i> , 2020, 11, 1065-1082.	1.5	39
34	Stable and effective super-hydrophilic polysulfone nanofiber mats for oil/water separation. <i>Polymer</i> , 2015, 72, 125-133.	1.8	36
35	Novel mechanism to improve toughness of the hydroxyapatite bioceramics using high-frequency induction heat sintering. <i>Journal of Materials Processing Technology</i> , 2007, 187-188, 417-420.	3.1	35
36	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.	2.3	33

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37	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.	2.6	33
38	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.	2.2	31
39	Viscoelastic behavior of core-shell structured nanofibers of PLA and PVA produced by coaxial electrospinning. <i>Polymer Testing</i> , 2018, 67, 136-143.	2.3	31
40	Novel production method and <i>in vitro</i> cell compatibility of porous Ti6Al4V alloy disk for hard tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2008, 86A, 289-299.	2.1	30
41	Fabrication of durable high performance hybrid nanofiber scaffolds for bone tissue regeneration using a novel, simple in situ deposition approach of polyvinyl alcohol on electrospun nylon 6 nanofibers. <i>Materials Letters</i> , 2015, 147, 25-28.	1.3	30
42	Power generation from unconditioned industrial wastewaters using commercial membranes-based microbial fuel cells. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 4251-4263.	3.8	30
43	Fabrication of highly porous biodegradable biomimetic nanocomposite as advanced bone tissue scaffold. <i>Arabian Journal of Chemistry</i> , 2017, 10, 240-252.	2.3	30
44	Hierarchical Co ₃ O ₄ decorated PPy nanocasting core-shell nanospheres as a high performance electrocatalysts for methanol oxidation. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 2742-2753.	3.8	29
45	Mechanical wet-milling and subsequent consolidation of ultra-fine Al ₂ O ₃ -(ZrO ₂ +3%Y ₂ O ₃) bioceramics by using high-frequency induction heat sintering. <i>Transactions of Nonferrous Metals Society of China</i> , 2007, 17, 21-26.	1.7	27
46	Observation of Toughness Improvement of the Hydroxyapatite Bioceramics Densified Using High-Frequency Induction Heat Sintering. <i>International Journal of Applied Ceramic Technology</i> , 2007, 4, 30-37.	1.1	26
47	Toward facile synthesizing of diamond nanostructures via nanotechnological approach: Lonsdaleite carbon nanofibers by electrospinning. <i>Materials Research Bulletin</i> , 2012, 47, 2140-2147.	2.7	26
48	Carbon Supported Engineering NiCo ₂ O ₄ Hybrid Nanofibers with Enhanced Electrocatalytic Activity for Oxygen Reduction Reaction. <i>Materials</i> , 2016, 9, 759.	1.3	26
49	Antibacterial effect of carbon nanofibers containing Ag nanoparticles. <i>Fibers and Polymers</i> , 2013, 14, 1985-1992.	1.1	25
50	Novel bone regeneration matrix for next-generation biomaterial using a vertical array of carbonated hydroxyapatite nanoplates coated onto electrospun nylon 6 nanofibers. <i>Materials Letters</i> , 2014, 137, 378-381.	1.3	24
51	Biocompatibility properties of polyamide 6/PCL blends composite textile scaffold using EA.hy926 human endothelial cells. <i>Biomedical Materials (Bristol)</i> , 2017, 12, 035002.	1.7	23
52	Review and analysis of the importance of autonomous vehicles liability: a systematic literature review. <i>International Journal of Systems Assurance Engineering and Management</i> , 2020, 11, 1227-1249.	1.5	23
53	Development of Cd-doped Co Nanoparticles Encapsulated in Graphite Shell as Novel Electrode Material for the Capacitive Deionization Technology. <i>Nano-Micro Letters</i> , 2013, 5, 303-313.	14.4	22
54	Load bearing enhancement of pin joined composite laminates using electrospun polyacrylonitrile nanofiber mats. <i>Arabian Journal of Chemistry</i> , 2016, 9, 262-268.	2.3	20

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55	Effect of Processing Parameters on the Mechanical and Microstructural Behavior of Ultra-Fine Al ₂ O ₃ +8% (ZrO ₂ +8%Mol Y ₂ O ₃) Bioceramic, Densified By High-Frequency Induction Heat Sintering. International Journal of Applied Ceramic Technology, 2006, 3, 322-330.	1.1	19
56	A novel simple in situ biomimetic and simultaneous deposition of bonelike apatite within biopolymer matrix as bone graft substitutes. Materials Letters, 2014, 137, 260-264.	1.3	19
57	Corrosion Properties in Sodium Chloride Solutions of Al+TiC Composites in situ Synthesized by HFHF. Metals, 2015, 5, 1799-1811.	1.0	19
58	Titanium Carbide Nanofibers-Reinforced Aluminum Compacts, a New Strategy to Enhance Mechanical Properties. Materials, 2016, 9, 399.	1.3	19
59	Influence of the operating conditions on the morphology of CaCO ₃ nanoparticles prepared by modified co-precipitation with pulse mode feeding. Advanced Powder Technology, 2015, 26, 914-919.	2.0	17
60	A novel strategy for enhancing the electrospun PVDF support layer of thin-film composite forward osmosis membranes. RSC Advances, 2016, 6, 102762-102772.	1.7	16
61	Self-assembled dopamine nanolayers wrapped carbon nanotubes as carbon-carbon bi-functional nanocatalyst for highly efficient oxygen reduction reaction and antiviral drug monitoring. Solid State Sciences, 2017, 71, 51-60.	1.5	15
62	Methylene Blue Dye as Photosensitizer for Scavenger-Less Water Photo Splitting: New Insight in Green Hydrogen Technology. Polymers, 2022, 14, 523.	2.0	15
63	Effects of TiO ₂ powder morphology on the mechanical response of pure magnesium: 1D nanofibers versus 0D nanoparticulates. Journal of Alloys and Compounds, 2016, 664, 45-58.	2.8	14
64	Physical, mechanical, thermal, and dynamic characterization of carbon nanotubes incorporated poly(methyl methacrylate)-based denture implant. Journal of Composite Materials, 2017, 51, 3931-3940.	1.2	14
65	A novel graphene oxide-based ceramic composite as an efficient electrode for capacitive deionization. Scientific Reports, 2020, 10, 9676.	1.6	14
66	A Novel Bio-Nanocomposites Composed of Hydroxyapatite Reinforced with TiO ₂ Electrospun Nanofiber Consolidated Using High-Frequency Induction Heating. International Journal of Applied Ceramic Technology, 2011, 8, 523-531.	1.1	13
67	Fabrication and evaluation of porous Ti+HA bio-nanomaterial by leaching process. Arabian Journal of Chemistry, 2015, 8, 372-379.	2.3	13
68	Sintering behavior and mechanical properties of HA-X% mol 3YSZ composites sintered by high frequency induction heated sintering. Composites Part B: Engineering, 2013, 45, 1689-1693.	5.9	12
69	Ni/Pd-Decorated Carbon NFs as an Efficient Electrocatalyst for Methanol Oxidation in Alkaline Medium. Journal of Electronic Materials, 2017, 46, 265-273.	1.0	11
70	Effect of equal-channel angular pressing on superplastic behavior of eutectic Pb+Sn alloy. Materials & Design, 2012, 34, 235-241.	5.1	9
71	A Novel and Highly Effective Natural Vibration Modal Analysis to Predict Nominal Strength of Open Hole Glass Fiber Reinforced Polymer Composites Structure. Polymers, 2021, 13, 1251.	2.0	9
72	Sintering behavior of ultra-fine Al ₂ O ₃ +Xmol% (ZrO ₂ +Xmol% Y ₂ O ₃) ceramics by high-frequency induction heating. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 4926-4931.	2.6	8

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73	The Multiple Uses of Polypropylene/Polyethylene Terephthalate Microfibrillar Composite Structures to Support Waste Management” Composite Processing and Properties. <i>Polymers</i> , 2021, 13, 1296.	2.0	7
74	Fabrication and characterization of silver nanostructures conformal coating layer onto electrospun N6 nanofibers with improved physical properties. <i>Journal of Sol-Gel Science and Technology</i> , 2014, 71, 184-191.	1.1	6
75	Biosynthesis of Bonelike Apatite 2D Nanoplate Structures Using Fenugreek Seed Extract. <i>Nanomaterials</i> , 2020, 10, 919.	1.9	6
76	Development of Polypropylene/Polyethylene Terephthalate Microfibrillar Composites Filament to Support Waste Management. <i>Polymers</i> , 2021, 13, 233.	2.0	6
77	Polyaniline-Poly(vinyl acetate) Electrospun Nanofiber Mats as Novel Organic Semiconductor Material. <i>Science of Advanced Materials</i> , 2012, 4, 1118-1126.	0.1	6
78	Fabrication and Characterization of Polycaprolactone Micro and Nanofibers for Vascular Tissue Replacement. <i>Science of Advanced Materials</i> , 2015, 7, 599-605.	0.1	6
79	A new-developed nanostructured Mg/HAp nanocomposite by high frequency induction heat sintering process. <i>IOP Conference Series: Materials Science and Engineering</i> , 2012, 40, 012031.	0.3	5
80	Copper Ion Cementation in Presence of a Magnetic Field. <i>Chemical Engineering and Technology</i> , 2015, 38, 441-445.	0.9	5
81	Mechanical Characterization of Cryomilled Al Powder Consolidated by High-Frequency Induction Heat Sintering. <i>Advances in Materials Science and Engineering</i> , 2013, 2013, 1-10.	1.0	4
82	Synthesis and characterization of CoMnO nanofibers supported on a graphite disk: Novel strategy for nanofibers immobilization. <i>Materials Research Bulletin</i> , 2014, 49, 503-508.	2.7	4
83	Melt Processing and Characterization of Al-SiC Nanocomposite, Al, and Mg Foam Materials. <i>Metals</i> , 2016, 6, 110.	1.0	4
84	Hierarchical Porous Engineering of Three-Dimensional Stacked Blocks like NiCo ₂ O ₄ Assembled from Vertically Aligned Nanoplates for Efficient Alcohols Electrooxidation. <i>Journal of the Electrochemical Society</i> , 2018, 165, F1067-F1074.	1.3	3
85	Numerical and Experimental Evaluation of Mechanical and Ring Stiffness Properties of Preconditioning Underground Glass Fiber Composite Pipes. <i>Journal of Composites Science</i> , 2021, 5, 264.	1.4	3
86	Poly (acrylonitrile-co-methyl methacrylate) nanofibers grafted with bio-nanosilver particles as antimicrobial against multidrug resistant bacteria. <i>African Journal of Biotechnology</i> , 2011, 10, .	0.3	2
87	Fiber-reinforced metal-matrix composites. , 2021, , 649-667.		1