Farid El-Tantawy

List of Publications by Year in descending order

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102 papers	2,796 citations	172457 29 h-index	214800 47 g-index
102 all docs	102 docs citations	102 times ranked	3016 citing authors

#	Article	IF	Citations
1	Optical constants and dispersion parameters of La-doped ZnS nanocrystalline films prepared by solâ€“gel technique. Optik, 2018, 168, 764-777.	2.9	35
2	Facile and rapid synthesis of nanoplates Mg(OH)2 and MgO via Microwave technique from metal source: structural, optical and dielectric properties. Journal of Sol-Gel Science and Technology, 2018, 86, 104-111.	2.4	19
3	Photodiode based on Pb0.9Cd0.1S ternary alloy semiconductor for solar tracking systems. Journal of Materials Science: Materials in Electronics, 2018, 29, 16880-16893.	2.2	9
4	Organic semiconductor photosensors. Journal of Alloys and Compounds, 2017, 702, 520-530.	5.5	39
5	Microwaveâ€”assisted hydrothermal synthesis of monoclinic bismuth trioxide nanorods: optical and photocatalytic properties. Journal of Materials Science: Materials in Electronics, 2017, 28, 8684-8693.	2.2	17
6	Heteroleptic neutral Ru(II) complexes based photodiodes. Physica B: Condensed Matter, 2017, 516, 7-13.	2.7	17
7	Optical properties of nanostructured ruthenium dioxide thin films via solâ€“gel approach. Journal of Materials Science: Materials in Electronics, 2017, 28, 52-59.	2.2	17
8	Analysis of interface states of FeO-Al2O3 spinel composite film/p-Si diode by conductance technique. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	26
9	Single crystal ruthenium(II) complex dye based photodiode. Dyes and Pigments, 2016, 132, 64-71.	3.7	46
10	Thermal sensors based on delafossite film/p-silicon diode for low-temperature measurements. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	16
11	Facile synthesis, electrical and optical properties of Cu-doped GaN nanorods by solâ€“gel technique. Journal of Sol-Gel Science and Technology, 2016, 78, 68-75.	2.4	9
12	Electromagnetic shielding properties of graphene/acrylonitrile butadiene rubber nanocomposites for portable and flexible electronic devices. Composites Part B: Engineering, 2016, 88, 212-219.	12.0	77
13	Graphene controlled organic photodetectors. Synthetic Metals, 2016, 217, 43-56.	3.9	53
14	Electrical and Optical Properties of Carbon Nanotube Hybrid Zinc Oxide Nanocomposites Prepared by Ball Mill Technique. Fullerenes Nanotubes and Carbon Nanostructures, 2015, 23, 865-869.	2.1	24
15	Grapheneâ€“cobalt phthalocyanine based on optoelectronic device for solar panel tracking systems. Synthetic Metals, 2015, 206, 15-23.	3.9	30
16	Novel synthesis, optical, and photoluminescence properties of Mg x Zn1â^'x O nanoflowers. Journal of Sol-Gel Science and Technology, 2015, 74, 726-733.	2.4	3
17	Optical properties of Zn1â^'x Al x O:NiO transparent metal oxide composite thin films prepared by solâ€“gel method. Journal of Sol-Gel Science and Technology, 2015, 76, 378-385.	2.4	8
18	Photodiode and photocapacitor properties of Au/CdTe/p-Si/Al device. Journal of Alloys and Compounds, 2015, 646, 1151-1156.	5.5	59

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19	Nanocrystalline Cu2O/p-Si solar light-responsive Schottky photodiode. Applied Physics A: Materials Science and Processing, 2015, 121, 29-37.	2.3	7
20	Composite metal oxide semiconductor based photodiodes for solar panel tracking applications. Journal of Alloys and Compounds, 2015, 650, 692-699.	5.5	12
21	Transparent ultraviolet photodiodes based conductive gallium-indium-oxide films/p-type silicon for solar panel tracking systems. Sensors and Actuators A: Physical, 2015, 234, 212-222.	4.1	6
22	A novel facile synthesis and electromagnetic wave shielding effectiveness at microwave frequency of graphene oxide paper. Microsystem Technologies, 2015, 21, 2155-2163.	2.0	7
23	Electromagnetic interference shielding properties of nanocomposites for commercial electronic devices. Microsystem Technologies, 2015, 21, 2397-2405.	2.0	9
24	A novel type heterojunction photodiodes formed junctions of Au/LiZnSnO and LiZnSnO/p-Si in series. Journal of Alloys and Compounds, 2015, 625, 18-25.	5.5	44
25	Modeling of currentâ€“voltage and capacitanceâ€“voltage characteristics of pentacene and solâ€“gel derived SiO2 gate dielectric layer based on thin-film transistor. Synthetic Metals, 2015, 199, 159-168.	3.9	6
26	Ferroelectric Bi3.25La0.75Ti3O12 photodiode for solar cell applications. Solar Energy Materials and Solar Cells, 2015, 133, 69-75.	6.2	31
27	Novel polyvinyl alcohol/silver hybrid nanocomposites for high performance electromagnetic wave shielding effectiveness. Microsystem Technologies, 2015, 21, 859-868.	2.0	25
28	Electrical and photoresponse properties of Au/ reduced graphene:poly(3-hexylthiophene) nanocomposite /p-Si photodiodes. Optical and Quantum Electronics, 2015, 47, 1779-1789.	3.3	11
29	Synthesis and optical properties of iron doped gallium nitride nanostructures by sol gel method. Microsystem Technologies, 2015, 21, 1219-1224.	2.0	11
30	Novel rapid synthesis of zinc oxide nanotubes via hydrothermal technique and antibacterial properties. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 135, 871-877.	3.9	58
31	Effects of Multi-walled Carbon Nanotubes on the Dielectric and Microwave Properties of Natural Rubber-based Composites. Fullerenes Nanotubes and Carbon Nanostructures, 2014, 22, 618-629.	2.1	6
32	Novel bulk synthesis of magnesium oxide nanobelts networks by microwave hydrothermal route. Journal of Sol-Gel Science and Technology, 2014, 70, 14-18.	2.4	10
33	Semiconducting properties of Al doped ZnO thin films. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 131, 512-517.	3.9	129
34	The electrical characterization of ZnO/GaAs heterojunction diode. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 64, 240-245.	2.7	23
35	Dielectric and Microwave Properties of Fullerenes Containing Natural Rubber-based Nanocomposites. Fullerenes Nanotubes and Carbon Nanostructures, 2014, 22, 332-345.	2.1	4
36	Dielectric and microwave properties of polyvinyl chloride/graphite/nickel composites and its applications. Journal of Thermoplastic Composite Materials, 2014, 27, 528-540.	4.2	5

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37	On the prospects of conducting polyaniline/natural rubber composites for electromagnetic shielding effectiveness applications. Journal of Thermoplastic Composite Materials, 2014, 27, 765-782.	4.2	14
38	Photoconducting properties of Cd0.4ZnO0.6/p-Si photodiode by sol gel method. Journal of Electroceramics, 2014, 32, 369-375.	2.0	18
39	Electrical and photoconducting properties of nanorod in based spinel compound/p-Si photodiode by solâ€“gel spin coating technique. Journal of Sol-Gel Science and Technology, 2014, 71, 421-427.	2.4	11
40	Nanostructure Lanthanum Doped Zinc Oxide Optical Materials. Journal of Nanoelectronics and Optoelectronics, 2014, 9, 624-634.	0.5	14
41	Electromagnetic wave shielding and microwave absorbing properties of hybrid epoxy resin/foliated graphite nanocomposites. Journal of Applied Polymer Science, 2013, 127, 2227-2234.	2.6	30
42	Novel photoconductive Ag/nanostructure ruthenium oxide/p-type silicon Schottky barrier diode by solâ€“gel method. Journal of Sol-Gel Science and Technology, 2013, 67, 368-375.	2.4	15
43	Determination of optical band gap of ZnO:ZnAl2O4 composite semiconductor nanopowder materials by optical reflectance method. Journal of Electroceramics, 2013, 31, 265-270.	2.0	43
44	Effect of Matrix Chemical Nature on the Properties of Composites for Microwave Absorbers. Polymer-Plastics Technology and Engineering, 2013, 52, 1113-1121.	1.9	9
45	Synthesis, magnetic and ethanol gas sensing properties of semiconducting magnetite nanoparticles. Solid State Sciences, 2013, 19, 111-116.	3.2	19
46	Facile green synthesis, optical and photocatalytic properties of zinc oxide nanosheets via microwave assisted hydrothermal technique. Journal of Electroceramics, 2013, 31, 324-330.	2.0	23
47	Comparison of microwave absorbing properties of chloroprene rubber composites containing carbon black and nickel/cobalt powder. Journal of Elastomers and Plastics, 2013, 45, 471-485.	1.5	6
48	New Schottky diode based entirely on nickel aluminate spinel/p-silicon using the solâ€“gel spin coating approach. Superlattices and Microstructures, 2013, 64, 167-177.	3.1	19
49	Fabrication and electrical characterization of solution-processed all-oxide transparent NiO/TiO2 p-n junction diode by solâ€“gel spin coating method. Journal of Electroceramics, 2013, 31, 260-264.	2.0	13
50	Preparation and characterization of dye sensitized solar cell based on nanostructured Fe2O3. Materials Letters, 2013, 105, 106-109.	2.6	43
51	Rapid fabrication of nanostructured magnesium hydroxide and hydromagnesite via microwave-assisted technique. Powder Technology, 2013, 234, 26-31.	4.2	52
52	Dielectric and microwave properties of natural rubber-based composites tailored by the fillers specific features. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2013, 227, 168-176.	1.1	0
53	Electrocatalytic Oxidation of Methanol on an Pd/Pyy/Niad-atoms Electrode. Journal of Fuel Cell Science and Technology, 2013, 10, .	0.8	1
54	Electrocatalytic Reduction of Oxygen on Ni/Graphite Nanoparticles. Journal of Fuel Cell Science and Technology, 2012, 9, .	0.8	2

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55	A new facile synthesis of ultra fine magnesium oxide nanowires and optical properties. Journal of Electroceramics, 2012, 29, 198-203.	2.0	30
56	Fabrication and electrical characterization of transparent NiO/ZnO pâ€“n junction by the solâ€“gel spin coating method. Journal of Sol-Gel Science and Technology, 2012, 64, 219-223.	2.4	19
57	Optical properties of nanostructure boron doped NiO thin films. Journal of Sol-Gel Science and Technology, 2012, 64, 728-733.	2.4	37
58	A new large â€“ Scale synthesis of magnesium oxide nanowires: Structural and antibacterial properties. Superlattices and Microstructures, 2012, 52, 200-209.	3.1	134
59	Series resistance controlling photosensor of Ag/DNA/p-Si/Al diode. Synthetic Metals, 2012, 162, 981-987.	3.9	26
60	Microwave assisted rapid growth of Mg(OH)2 nanosheet networks for ethanol chemical sensor application. Journal of Alloys and Compounds, 2012, 519, 4-8.	5.5	57
61	Dynamic charge transport in pentacene and zinc oxide thin-film transistors: Dark and UV illumination conditions. Synthetic Metals, 2012, 162, 1681-1688.	3.9	5
62	Dynamic mechanical thermal analysis and dielectric thermal analysis of siloxane rubber-based composites filled with carbon black. Journal of Composite Materials, 2012, 46, 1765-1770.	2.4	6
63	Influence of matrices chemical nature on the dynamic mechanical and dielectric properties of rubber composites comprising conductive carbon black. Journal of Polymer Research, 2012, 19, 1.	2.4	3
64	Properties of Natural Rubber-Based Composites Containing Fullerene. International Journal of Polymer Science, 2012, 2012, 1-8.	2.7	16
65	Some Factors Determining the Volume Resistivity of Filled Natural-Rubber-Based Nanocomposites. Progress in Rubber, Plastics and Recycling Technology, 2012, 28, 95-110.	1.8	5
66	Novel electromagnetic interference shielding effectiveness in the microwave band of magnetic nitrile butadiene rubber/magnetite nanocomposites. Journal of Applied Polymer Science, 2012, 125, 2604-2613.	2.6	30
67	A novel synthesis and optical properties of cuprous oxide nano octahedrons via microwave hydrothermal route. Journal of Sol-Gel Science and Technology, 2012, 63, 187-193.	2.4	8
68	Thermophysical properties of foliated graphite/nickel reinforced polyvinyl chloride nanocomposites. Journal of Applied Polymer Science, 2012, 124, 1144-1153.	2.6	7
69	Dielectric and Microwave Properties of Graphene Nanoplatelets /Carbon Black Filled Natural Rubber Composites. International Journal of Materials and Chemistry, 2012, 2, 116-122.	1.0	32
70	Pressure Sensors Based on Polyvinyl Chloride/Graphite/Nickel Nanocomposites. Journal of Elastomers and Plastics, 2011, 43, 137-153.	1.5	6
71	Dielectric and Microwave Properties of Siloxane Rubber/Carbon Black Nanocomposites and Their Correlation. International Journal of Polymer Science, 2011, 2011, 1-7.	2.7	10
72	Influence of Carbon Black Structure and Specific Surface Area on the Mechanical and Dielectric Properties of Filled Rubber Composites. International Journal of Polymer Science, 2011, 2011, 1-8.	2.7	24

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73	Synthesis and physical properties of mixed Co3O4/CoO nanorods by microwave hydrothermal technique. Superlattices and Microstructures, 2011, 50, 437-448.	3.1	45
74	Influence of graphite nanosheets on the structure and properties of PVC-based nanocomposites. Journal of Applied Polymer Science, 2011, 120, 3628-3634.	2.6	25
75	Novel functional nitrile butadiene rubber/magnetite nano composites for NTCR thermistors application. Journal of Applied Polymer Science, 2011, 121, 3604-3612.	2.6	29
76	New Resistive Switching and Self-Regulating Heating in Foliated Graphite/Nickel Polyvinyl Chloride Nanocomposites. Journal of Nanomaterials, 2011, 2011, 1-10.	2.7	2
77	New PTCR thermistors, switching current, and electromagnetic shielding effectiveness from nanosized vanadium sesquioxides ceramic reinforced epoxy resin nanocomposites. Journal of Applied Polymer Science, 2010, 115, 817-825.	2.6	17
78	New electromagnetic wave shielding effectiveness at microwave frequency of polyvinyl chloride reinforced graphite/copper nanoparticles. Composites Part A: Applied Science and Manufacturing, 2010, 41, 1693-1701.	7.6	112
79	New smart conducting elastomer blends of Biâ€based superconductor ceramics nanoparticles reinforced natural rubber/lowâ€density polyethylene for double thermistors, antistatic protectors, and electromagnetic interference shielding effectiveness applications. Polymer Engineering and Science, 2009, 49, 592-601.	3.1	20
80	Stability of new electrostatic discharge protection and electromagnetic wave shielding effectiveness from poly(vinyl chloride)/graphite/nickel nanoconducting composites. Polymer Degradation and Stability, 2009, 94, 980-986.	5.8	115
81	The effect of nanoscale vanadium pentoxide on the electrical and mechanical properties of poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Ove	3.1	92
82	Natural rubber filled SiC and B₄C ceramic composites as a new NTC thermistors and piezoresistive sensor materials. Polymer Composites, 2008, 29, 109-118.	4.6	26
83	New antistatic charge and electromagnetic shielding effectiveness from conductive epoxy resin/plasticized carbon black composites. Polymer Composites, 2008, 29, 125-132.	4.6	82
84	Epoxy resin/plasticized carbon black composites. Part I. Electrical and thermal properties and their applications. Polymer Composites, 2008, 29, 511-517.	4.6	28
85	Epoxy resin/plasticized carbon black composites. Part II. Correlation among network structure and mechanical properties. Polymer Composites, 2008, 29, 804-808.	4.6	15
86	Plasticized/graphite reinforced phenolic resin composites and their application potential. Journal of Applied Polymer Science, 2007, 104, 697-709.	2.6	15
87	New gasoline and gas barrier from plasticized carbon black reinforced butyl rubber/high-density polyethylene blends. Journal of Applied Polymer Science, 2006, 101, 1237-1247.	2.6	5
88	Development of novel functional conducting elastomer blends containing butyl rubber and low-density polyethylene for current switching, temperature sensor, and EMI shielding effectiveness applications. Journal of Applied Polymer Science, 2005, 97, 1125-1138.	2.6	30
89	The interrelation among network structures, molecular transport of solvent, and creep behaviors of TiB2 ceramic containing butyl rubber composites. Journal of Applied Polymer Science, 2005, 98, 2226-2235.	2.6	10
90	New functional conductive polymer composites containing nickel coated carbon black reinforced phenolic resin. Macromolecular Research, 2005, 13, 194-205.	2.4	9

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91	Novel V-shaped negative temperature coefficient of conductivity thermistors and electromagnetic interference shielding effectiveness from butyl rubber-loaded boron carbide ceramic composites. Journal of Applied Polymer Science, 2004, 91, 2756-2770.	2.6	32
92	Physical properties of CdS-poly (vinyl alcohol) nanoconducting composite synthesized by organosol techniques and novel application potential. European Polymer Journal, 2004, 40, 415-430.	5.4	69
93	A new phantom model and attenuation backing from epoxy resin nanosized hydroxyapatiteâ€“carbon black and multifunctional agent composites. Materials Letters, 2004, 58, 3388-3394.	2.6	12
94	A novel ultrasonic transducer backing from porous epoxy resinâ€“titaniumâ€“silane coupling agent and plasticizer composites. Materials Letters, 2004, 58, 154-158.	2.6	24
95	A novel way of enhancing the electrical and thermal stability of conductive epoxy resin-carbon black composites via the Joule heating effect for heating-element applications. Journal of Applied Polymer Science, 2003, 87, 97-109.	2.6	46
96	Electrical properties and stability of epoxy reinforced carbon black composites. Materials Letters, 2002, 57, 242-251.	2.6	32
97	Novel smart polymeric composites for thermistors and electromagnetic wave shielding effectiveness from TiC loaded styrene-butadiene rubber. Macromolecular Research, 2002, 10, 345-358.	2.4	18
98	On the ?curiosity? of electrical self-heating, static charge and electromagnetic shielding effectiveness from carbon black/aluminium flakes reinforced epoxy-resin composites. Polymer International, 2002, 51, 635-646.	3.1	21
99	New double negative and positive temperature coefficients of conductive EPDM rubber TiC ceramic composites. European Polymer Journal, 2002, 38, 567-577.	5.4	45
100	Influence of solvent transport on physico-chemical properties of crosslinked butyl rubber filled with TiC ceramic. Polymer Degradation and Stability, 2001, 73, 289-299.	5.8	28
101	Joule heating treatments of conductive butyl rubber/ceramic superconductor composites: a new way for improving the stability and reproducibility?. European Polymer Journal, 2001, 37, 565-574.	5.4	77
102	Effect of iron oxide on vulcanization kinetics and electrical conductance of butyl rubber composites. Polymer International, 2000, 49, 1371-1376.	3.1	20