Gamal M Turky

List of Publications by Citations

93 papers	1,101 citations	19 h-index	28 g-index
102 ext. papers	1,361 ext. citations	3.3 avg, IF	5.04 L-index

#	Paper	IF	Citations
93	Dielectric Study of Molecular Mobility in Poly(propylene-graft-maleic anhydride)/Clay Nanocomposites. *Macromolecules*, **2005**, 38, 2764-2774	5.5	105
92	Spectral and electrical properties of ternary (TeO2V2O5m2O3) glasses. *Materials Chemistry and Physics*, **2003**, 77, 48-59	4.4	78
91	Effect of Li2O doping on electrical properties of CoFe2O4. *Solid State Ionics*, **1999**, 120, 173-181	3.3	63
90	Charge Transport and Dipolar Relaxations in Hyperbranched Polyamide Amines. *Macromolecules*, **2009**, 42, 1648-1651	5.5	47
89	Biological studies and electrical conductivity of paper sheet based on PANI/PS/Ag-NPs nanocomposite. *Carbohydrate Polymers*, **2016**, 147, 333-343	10.3	47
88	Morphological, electrical & antibacterial properties of trilayered Cs/PAA/PPy bionanocomposites hydrogel based on FeO-NPs. *Carbohydrate Polymers*, **2018**, 196, 483-493	10.3	44
87	Broadband dielectric spectroscopy on the molecular dynamics in different generations of hyperbranched polyester. *Journal of Applied Polymer Science*, **2009**, 113, 2477-2484	2.9	35
86	Secondary relaxations and electrical conductivity in hyperbranched polyester amides. *Journal of Polymer Science, Part B: Polymer Physics*, **2010**, 48, 1651-1657	2.6	27
85	Rational design and electrical study of conducting bionanocomposites hydrogel based on chitosan and silver nanoparticles. *International Journal of Biological Macromolecules*, **2019**, 140, 886-894	7.9	23
84	Structure and molecular dynamics of hyperbranched polymeric systems with urethane and urea linkages. *Polymer*, **2009**, 50, 4039-4047	3.9	23
83	Electrical investigations of polyaniline/sulfonated polystyrene composites using broadband dielectric spectroscopy. *Synthetic Metals*, **2015**, 209, 34-40	3.6	22
82	In situ synthesis of FeO@ cyanoethyl cellulose composite as antimicrobial and semiconducting film. *Carbohydrate Polymers*, **2020**, 236, 116032	10.3	22
81	Synthesis and characterization of polyaniline/tosylcellulose stearate composites as promising semiconducting materials. *Synthetic Metals*, **2018**, 236, 44-53	3.6	22
80	Relaxation dynamic and electrical mobility for poly(methyl methacrylate)-polyaniline composites. *Journal of Applied Polymer Science*, **2017**, 134, 45415	2.9	22
79	Hyperbranched poly(amidoamine)/kaolinite nanocomposites: Structure and charge carrier dynamics. *Polymer*, **2017**, 121, 64-74	3.9	21
78	Development of electrical conducting nanocomposite based on carboxymethyl cellulose hydrogel/silver nanoparticles@polypyrrole. *Synthetic Metals*, **2019**, 250, 104-114	3.6	21
77	Conducting chitosan/hydroxylethyl cellulose/polyaniline bionanocomposites hydrogel based on graphene oxide doped with Ag-NPs. *International Journal of Biological Macromolecules*, **2021**, 167, 1435-1444	7.9	21

76	Development of biodegradable semiconducting foam based on micro-fibrillated cellulose/Cu-NPs. *International Journal of Biological Macromolecules*, **2019**, 132, 351-359	7.9	20
75	Structure–Property Relationships of Hyperbranched Polymer/Kaolinite Nanocomposites. *Macromolecules*, **2015**, 48, 6562-6573	5.5	20
74	Enhancement of electrical and dielectrically performance of graphene-based promise electronic devices. *Synthetic Metals*, **2020**, 261, 116303	3.6	19
73	Polyaniline and modified titanate nanowires layer-by-layer plastic electrode for flexible electronic device applications. *RSC Advances*, **2016**, 6, 94556-94563	3.7	19
72	Conducting hydrogel based on chitosan, polypyrrole and magnetite nanoparticles: a broadband dielectric spectroscopy study. *Polymer Bulletin*, **2019**, 76, 3175-3194	2.4	18
71	Enhancing the electrical conductivity of vanadate glass system (Fe2O3, B2O3, V2O5) via doping with sodium or strontium cations. *Ceramics International*, **2019**, 45, 11838-11843	5.1	17
70	Electrical and thermal properties of nylon 6/calcium carbonate composites. *Advances in Polymer Technology*, **2009**, 28, 257-266	1.9	16
69	Carboxymethyl Cellulose-Based Hydrogel: Dielectric Study, Antimicrobial Activity and Biocompatibility. *Arabian Journal for Science and Engineering*, **2021**, 46, 17-30	2.5	15
68	Influence of azobenzene concentration on the dielectric behavior of amorphous comb-like copolymers with photochromic side groups. *Polymer*, **2004**, 45, 255-262	3.9	14
67	Morphology and electrical properties of hybrid and sulphonated oxalic acid-doped polyaniline. *Synthetic Metals*, **2010**, 160, 1774-1779	3.6	13
66	Influence of CuO on crystallization and electrical properties of B2O3-Bi2O3-GeO2- CaF2 glass system for thermoelectronic applications. *Journal of Non-Crystalline Solids*, **2020**, 544, 120185	3.9	12
65	Hydrogen storing and electrical properties of hyperbranched polymers-based nanoporous materials. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2011**, 176, 1184-1189	3.1	12
64	Lead telluride nanocrystalline thin films: Structure, optical characterization and a broadband dielectric spectroscopy study. *Current Applied Physics*, **2019**, 19, 787-793	2.6	11
63	Effect of fillers and vulcanizing systems on the physicomechanical and electrical properties of EPDM vulcanizates. *Polymer-Plastics Technology and Engineering*, **2001**, 40, 635-652		11
62	Dielectric dynamics of some nylon 6/CaCO3 composites using broadband dielectric spectroscopy. *Journal of Applied Polymer Science*, **2011**, 122, 2039-2046	2.9	10
61	Effect of Mixing Conditions and Chemical Cross-Linking Agents on the Physicomechanical and Electrical Properties of NR/NBR Blends. *Polymer-Plastics Technology and Engineering*, **2003**, 42, 269-284		10
60	Electrical performance of nanocrystalline graphene oxide/SiO2-based hybrid heterojunction device. *Materials Science in Semiconductor Processing*, **2021**, 121, 105415	4.3	10
59	Structural, Magnetic, and Dielectric properties of SrFeO ferrite prepared of small crystallites. *Scientific Reports*, **2020**, 10, 4955	4.9	9

58	Dielectric study of polystyrene/polycaprolactone composites prepared by miniemulsion polymerization. *Journal of Physics and Chemistry of Solids*, **2018**, 119, 56-61	3.9	9
57	Electrical properties of pure and Li2O-doped CuO/Fe2O3 system precalcined at different temperatures. *Solid State Ionics*, **2001**, 140, 395-403	3.3	8
56	Analysis of Electrical and Capacitance–Voltage of PVA/nSi. *Journal of Electronic Materials*, **2021**, 50, 3498-3516	2.5	8
55	Rational design of active packaging films based on polyaniline-coated polymethyl methacrylate/nanocellulose composites. *Polymer Bulletin*, **2020**, 77, 2485-2499	2.4	8
54	Dielectric investigations and charge transport in PS-PAni composites with ionic and nonionic surfactants. *Journal of Physics and Chemistry of Solids*, **2019**, 133, 163-170	3.9	7
53	Study of phase separation and anomalous molecular behavior of Jojoba oil using dielectric spectroscopy. *Journal of Molecular Liquids*, **2017**, 242, 1-7	6	7
52	Poly phenylenediamine and its TiO2 composite as hydrogen storage material. *Materials Chemistry and Physics*, **2011**, 128, 507-513	4.4	7
51	Dielectric Properties of Hyperbranched Polyesteramide with Long Alkyl Chain End Groups. *Macromolecular Symposia*, **2007**, 254, 1-8	0.8	7
50	ELECTROMECHANICAL BEHAVIOR OF NATURAL RUBBER–LIGNOCELLULOSIC MATERIAL COMPOSITES. *Polymer-Plastics Technology and Engineering*, **2000**, 39, 249-263		7
49	Dielectric Relaxation of Some N, N-Disubstituted Amides. *Physics and Chemistry of Liquids*, **1995**, 29, 263-271	2.1	7
48	Dielectric Properties of 1-Hexanol in Mesitylene Solution on Admixture of Aromatic Dihydric Alcohols. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **1994**, 49, 503-510	1.4	7
47	Enhancement of Electrical and Dielectric Properties of Graphene Oxide-nanoparticle Based Devices. *Silicon*,1	2.4	7
46	Synthesis and Electric Modulus Formalism of Novel Metal-Phthalocyanine Bridged Polymers. *Journal of Inorganic and Organometallic Polymers and Materials*, **2014**, 24, 858-864	3.2	6
45	Confinement Effects on the Molecular Dynamics of Liquid-Crystalline Polymethacrylates—A Broadband Dielectric Spectroscopy Study. *Macromolecular Chemistry and Physics*, **2012**, 213, 2420-2431	2.6	6
44	Dielectric properties of some ternary mixtures of normal alcohols and aliphatic diols with heptane. *Journal of Molecular Liquids*, **1996**, 69, 133-141	6	6
43	Characterization of zinc lead-borate glasses doped with Fe3+ ions: optical, dielectric, and ac-conductivity investigations. *Journal of Materials Science: Materials in Electronics*, **2020**, 31, 17044-17054	2.1	6
42	Negative Capacitance, Negative Resistance in CNT/TiO2/SiO2/p-Si Heterostructure for Light-Emitting Diode Applications. *ECS Journal of Solid State Science and Technology*, **2021**, 10, 031006	2	6
41	Synthesis, characterization and electrical properties of conducting nanoparticles of graphene oxide. *Materials Today: Proceedings*, **2021**, 44, 3017-3024	1.4	6

40	Microstructure and dielectric study of pure BST and doped BSTF ceramic materials by broadband dielectric spectroscopy. *Current Applied Physics*, **2020**, 20, 611-618	2.6	5
39	Silane-functionalized graphene oxide/epoxy resin nanocomposites: Dielectric and thermal studies. *Journal of Applied Polymer Science*, **2019**, 136, 48253	2.9	5
38	Dielectric Response in the First Silicon Phthalocyanine Network Polymer. *Journal of Inorganic and Organometallic Polymers and Materials*, **2014**, 24, 347-354	3.2	5
37	Solid□olid interactions in Li2O-doped cobalt/magnesium mixed oxides system and the electrical properties of the produced solids. *Solid State Ionics*, **2003**, 156, 337-347	3.3	5
36	Impact of RGO on electrical and dielectric properties of Co3O4/RGO nanocomposite. *Materials Research Express*, **2019**, 6, 105039	1.7	4
35	Effect of polymer loading on the electrical and thermodynamic properties in relation to gas chromatographic applications. *Journal of Applied Polymer Science*, **2001**, 82, 1709-1717	2.9	4
34	Dielectric and Chromatographic Characterization of Polyethylene Glycols as Stationary Phases. *International Journal of Polymeric Materials and Polymeric Biomaterials*, **2001**, 50, 129-140	3	4
33	Dielectric Properties of Solutions of a Binary Mixture Resorcinol/n-Dodecanol in Heptane. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **1996**, 51, 215-217	1.4	4
32	Dielectric and electrical properties of MoO3-doped borophosphate glass: dielectric spectroscopy investigations. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 22417-22428	2.1	4
31	Comparative study between prepared electrical grease and the imported one. *Egyptian Journal of Petroleum*, **2018**, 27, 209-213	3.4	3
30	Rubber nanocomposites with new core-shell metal oxides as nanofillers **2017**, 249-283		3
29	Dipolar orientation mechanisms for dilute mixtures of alcohols in non-polar solvents. *Journal of the Chemical Society, Faraday Transactions*, **1992**, 88, 1819		3
28	Fabrication, Electrical and Dielectric Characterization of Au/CNT/TiO2/SiO2/p-Si/Al with High Dielectric Constant, Low Loss Dielectric Tangent. *ECS Journal of Solid State Science and Technology*, **2021**, 10, 051003	2	3
27	Current Transport, Photosensitive, and Dielectric Properties of PVA/n-Si Heterojunction Photodiode. *Silicon*,1	2.4	3
26	Anomalous activation behavior of the conductivity mechanisms in polyaniline-doped graphitic carbon nitride. *Journal of Physics and Chemistry of Solids*, **2021**, 158, 110243	3.9	3
25	Dielectric Properties of Bagasse and its Constituents. *International Journal of Polymeric Materials and Polymeric Biomaterials*, **2000**, 46, 169-179	3	2
24	Dielectric Properties of 4-Cyanobiphenyl in 1,4-Dioxane Solution. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **1994**, 49, 949-952	1.4	2
23	Investigation of Crystal Structure, Electrical and Magnetic Properties of Spinel Mn-Cd Ferrite Nanoparticles. *Journal of Inorganic and Organometallic Polymers and Materials*,1	3.2	2

22	Self-glazing dielectric ceramic bodies fabricated from Egyptian rhyodacite and kaolin. *Materials Chemistry and Physics*, **2021**, 270, 124785	4.4	2
21	Epoxy resin reinforced with graphene derivatives: physical and dielectric properties. *Journal of Polymer Research*, **2022**, 29, 1	2.7	2
20	Dynamic processes and charge carriers transport in polyvinyl acetate polyaniline composites. *SN Applied Sciences*, **2020**, 2, 1	1.8	1
19	Preparation, characterization, and some physical properties of polypropylene/poly(methyl acrylate)-grafted glass wool composites. *Journal of Applied Polymer Science*, **2003**, 87, 723-732	2.9	1
18	Dielectric and Mechanical Behavior of Treated Paper Sheet. *International Journal of Polymeric Materials and Polymeric Biomaterials*, **2000**, 47, 423-441	3	1
17	Effect of Radiation on the Dielectric Behaviour of Some Agricultural Wastes. *International Journal of Polymeric Materials and Polymeric Biomaterials*, **2000**, 46, 157-167	3	1
16	Dielectric Relaxation of Trimethylphosphate in its Pure Liquid State and in Mesitylene Solution. *Zeitschrift Fur Physikalische Chemie*, **1995**, 191, 251-258	3.1	1
15	The interplay between molecular structure and dielectric propertiesin ionic liquids: A comparative study. *Journal of Molecular Liquids*, **2021**, 324, 114674	6	1
14	Dielectric Properties of Hyperbranched Polyesteramide with Long Alkyl Chain End Groups **2007**, 254, 1		1
13	Electrical properties and heavy ions removal ability of graphitic carbon nitride/polypyrrole composite. *Journal of Physics and Chemistry of Solids*, **2022**, 110741	3.9	1
12	Novel Negative Capacitance and Conductance in All Temperatures and Voltages of Au/CNTs/n-Si/Al at Low and High Frequencies. *ECS Journal of Solid State Science and Technology*, **2021**, 10, 111007	2	0
11	Electrically conductive and UV protective graphene surface-modified polyester blends. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 28358	2.1	0
10	Synthesis, characterization and electrical insulation of polyester plasma sprayed by (CaO3Si/CuO) nanoparticles. *Materials Today: Proceedings*, **2021**, 43, 3336-3344	1.4	0
9	Optimizing the dielectric constant and dissipation factor of PVA/n-Si Schottky diode. *Materials Chemistry and Physics*, **2021**, 272, 125051	4.4	0
8	Impact of high NiO content on the structural, optical, and dielectric properties of calcium lithium silicate glasses. *Journal of Materials Science: Materials in Electronics*,1	2.1	0
7	Structural, Magnetic, and Dielectric Spectroscopy Investigations of Multiferroic Composite Based on Perovskite Spinel Approach. *ECS Journal of Solid State Science and Technology*, **2022**, 11, 033008	2	0
6	Effect of Yttrium Oxide in Hydroxyapatite Biocomposite Materials: Electrical and Antimicrobial Evaluation. *ECS Journal of Solid State Science and Technology*, **2021**, 10, 123014	2	0
5	Dielectric Studies of Dilute Solutions of Binary Mixtures of N,N-Dimethylformamide and 1-Hexanol in the Non-Polar Solvent Mesitylene. *Physics and Chemistry of Liquids*, **1997**, 34, 15-24	1.5	

List of Publications

4	Effect of surface modification of glass wool on the mechanical and electrical properties of polypropylene/modified glass-wool composites. *Journal of Applied Polymer Science*, **2002**, 85, 1061-1069	2.9
3	Effect of Cerium Oxide Addition on Electrical Properties of ZnO. *Key Engineering Materials*, **2001**, 206-213, 1341-1344	0.4
2	Physicochemical properties of hydrolyzed and blended chitin. *Polymer-Plastics Technology and Engineering*, **2001**, 40, 745-752	
1	Investigation of Dielectric Properties of a Novel Structure Au/CNTs/TiO2/SiO2/p-Si/Al. *ECS Journal of Solid State Science and Technology*, **2021**, 10, 091014	2