El-Sayed A Hegazy

List of Publications by Year in Descending Order

77 papers	1,742 citations	27 h-index	38 g-index
77 ext. papers	1,865 ext. citations	3.4 avg, IF	4.3 L-index

#	Paper	IF	Citations
77	Characterization and radiation modification of low density polyethylene/polystyrene/maleic anhydride/magnesium hydroxide blend nanocomposite. *Materials Chemistry and Physics*, **2020**, 252, 123264	4.1	7
76	Radiation synthesis and characterization of poly (aniline/glycidyl methacrylate) Ag2O nanocomposites. *Inorganic Chemistry Communication*, **2020**, 114, 107844	3.1	2
75	Nanoscale poly(acrylic acid)-based hydrogels prepared via a green single-step approach for application as low-viscosity biomimetic fluid tears. *Materials Science and Engineering C*, **2020**, 110, 110726	8.3	13
74	Radiation induced crosslinking of polyacrylamide incorporated low molecular weights natural polymers for possible use in the agricultural applications. *Carbohydrate Polymers*, **2017**, 176, 19-28	10.3	47
73	Description of D-glucosamine immobilization kinetics onto poly(lactic acid) surface via a multistep physicochemical approach for preparation of novel active biomaterials. *Journal of Biomedical Materials Research - Part A*, **2017**, 105, 3176-3188	5.4	7
72	Synthesis of Poly(aniline/glycidyl methacrylate)-TiO2 Nanocomposites via Gamma Irradiation and Their Electro-Responsive Characteristic. *Journal of Inorganic and Organometallic Polymers and Materials*, **2017**, 27, 1482-1490	3.2	3
71	Reinforcement of irradiated waste polyamide/reclaimed rubber powder composites with glass fiber. *Polymer Composites*, **2016**, 37, 1539-1548	3	2
70	Antioxidative properties of irradiated chitosan/vitamin C complex and their use as food additive for lipid storage. *Journal of Applied Polymer Science*, **2015**, 132, n/a-n/a	2.9	8
69	Physical properties of irradiated thermoplastic elastomeric olefins based on (devulcanized rubber)/(high crystalline polypropylene) formulations. *Journal of Vinyl and Additive Technology*, **2015**, 21, 33-41	2	1
68	Gamma irradiated chitosan and its derivatives as antioxidants for minced chicken. *Bioscience, Biotechnology and Biochemistry*, **2015**, 79, 997-1004	2.1	11
67	Effects of peroxide and gamma radiation on properties of devulcanized rubber/polypropylene/ethylene propylene diene monomer formulation. *Journal of Applied Polymer Science*, **2014**, 131, n/a-n/a	2.9	7
66	Controlling the size and swellability of stimuli-responsive polyvinylpyrrolidone poly(acrylic acid) nanogels synthesized by gamma radiation-induced template polymerization. *European Polymer Journal*, **2013**, 49, 601-612	5.2	37
65	Thermo-mechanical properties of devulcanized rubber/high crystalline polypropylene blends modified by ionizing radiation. *Journal of Industrial and Engineering Chemistry*, **2013**, 19, 1241-1250	6.3	25
64	Developing the potential ophthalmic applications of pilocarpine entrapped into polyvinylpyrrolidone-poly(acrylic acid) nanogel dispersions prepared by radiation. *Biomacromolecules*, **2013**, 14, 688-98	6.9	50
63	Improvement of antioxidant activity of chitosan by chemical treatment and ionizing radiation. *International Journal of Biological Macromolecules*, **2012**, 50, 403-13	7.9	45
62	Preparation and Characterization of Poly Vinyl Alcohol/Poly Vinyl Pyrrolidone/Clay Based Nanocomposite by Gamma Irradiation. *Journal of Macromolecular Science - Pure and Applied Chemistry*, **2012**, 49, 1041-1051	2.2	9
61	Studies on mechanical, thermal and morphological properties of irradiated recycled polyamide and waste rubber powder blends. *Nuclear Instruments & Methods in Physics Research B*, **2010**, 268, 1427-1434	1.2	26

60	Radiation-induced degradation of chitosan for possible use as a growth promoter in agricultural purposes. *Carbohydrate Polymers*, **2010**, 79, 555-562	10.3	100
59	Radiation Synthesis of Grafted Polymers for Studying Thermoluminescence Characterization and Its Possible Application as a Dosimeter at Low Doses. *Polymer-Plastics Technology and Engineering*, **2009**, 48, 423-431		5
58	Thermal and morphological behavior of irradiated composite materials based on injection-moulded recycled polyethylene terephthalate. *Journal of Applied Polymer Science*, **2008**, 107, 3974-3980	2.9	1
57	Reinforced material from reclaimed rubber/natural rubber, using electron beam and thermal treatment. *Journal of Applied Polymer Science*, **2007**, 104, 2569-2578	2.9	32
56	Effect of various environmental conditions on the swelling property of PAAm/PAAcK superabsorbent hydrogel prepared by ionizing radiation. *Journal of Applied Polymer Science*, **2006**, 101, 3955-3962	2.9	29
55	Removal of cesium-134 and cobalt-60 with radiation-grafted copolymers from their liquid wastes. *Journal of Applied Polymer Science*, **2005**, 95, 936-945	2.9	5
54	Radiation synthesis of copolymers for adsorption of dyes from their industrial wastes. *Journal of Applied Polymer Science*, **2005**, 96, 753-763	2.9	16
53	Synergistic effect of short reinforced fibers and gamma rays on the thermal and mechanical properties of waste poly(propylene) composites. *Journal of Applied Polymer Science*, **2005**, 96, 1741-1747	2.9	12
52	Properties of polyacrylamide-based hydrogels prepared by electron beam irradiation for possible use as bioactive controlled delivery matrices. *Journal of Applied Polymer Science*, **2005**, 98, 1262-1270	2.9	16
51	Controlled release of indole-3-butyric acid (IBA) based on polymeric matrix prepared by ionizing radiation. *Polymers for Advanced Technologies*, **2004**, 15, 544-550	3.2	8
50	Radiation synthesis and characterization of poly(N-vinyl-2-pyrrolidone/acrylic acid) and poly(N-vinyl-2-pyrrolidone/acrylamide) hydrogels for some metal-ion separation. *Journal of Applied Polymer Science*, **2004**, 92, 2642-2652	2.9	27
49	Radiation synthesis of hydrogels to enhance sandy soils water retention and increase plant performance. *Journal of Applied Polymer Science*, **2004**, 93, 1360-1371	2.9	118
48	Radiation copolymerization of (PVA/4-VP) hydrogel for treatment of industrial waste dyes. *International Journal of Polymeric Materials and Polymeric Biomaterials*, **2003**, 52, 901-916	3	7
47	Use of radiation grafted PVC-acrylamide membranes in radioactive waste treatment. *Polymer International*, **2002**, 51, 150-155	3.3	11
46	Characterization and some properties of functionalized graft copolymer. *International Journal of Polymeric Materials and Polymeric Biomaterials*, **2002**, 51, 1045-1060	3	1
45	Separation and extraction of some heavy and toxic metal ions from their wastes by grafted membranes. *Journal of Applied Polymer Science*, **2001**, 81, 849-860	2.9	31
44	Separation of Tc-99m by means of radiation-grafted membranes. *Journal of Applied Polymer Science* , **2001**, 81, 1207-1215	2.9	4
43	Advances in radiation grafting. *Nuclear Instruments & Methods in Physics Research B*, **2001**, 185, 235-240	1.2	29

42	Selective separation of some heavy metals by poly(vinyl alcohol)-grafted membranes. *Journal of Applied Polymer Science*, **2000**, 76, 125-132	2.9	52
41	Investigations and characterization of radiation grafted copolymers for possible practical use in waste water treatment. *Radiation Physics and Chemistry*, **2000**, 57, 85-95	2.5	49
40	Preparation and characterization of supported hydrogels obtained by radiation grafting of binary monomers. *Radiation Physics and Chemistry*, **1999**, 55, 219-229	2.5	32
39	Characterization and application of radiation grafted membranes in treatment of intermediate active waste. *Nuclear Instruments & Methods in Physics Research B*, **1999**, 151, 393-398	1.2	22
38	Membranes prepared by radiation grafting of binary monomers for adsorption of heavy metals from industrial wastes. *Nuclear Instruments & Methods in Physics Research B*, **1999**, 151, 386-392	1.2	31
37	Preparation of poly(vinyl alcohol) grafted with acrylic acid/styrene binary monomers for selective permeation of heavy metals. *Journal of Applied Polymer Science*, **1999**, 74, 806-815	2.9	16
36	Use of radiation-grafted polyethylene in dialysis of low molecular weight metabolites. *Polymer International*, **1999**, 48, 593-601	3.3	11
35	Anionic/Cationic Membranes Obtained by a Radiation Grafting Method for Use in Waste Water Treatment. *Polymer International*, **1997**, 43, 321-332	3.3	43
34	Investigation of radiation grafting of vinyl acetate onto (tetrafluoroethylene–perfluorovinyl ether) copolymer films. *Polymer International*, **1994**, 33, 285-291	3.3	18
33	Radiation-initiated graft copolymerization of acrylic acid and vinyl acetate onto LDPE films in two individual steps. *Polymer International*, **1993**, 32, 131-135	3.3	9
32	Radiation-induced graft polymerization of acrylic acid onto fluorinated polymers. II. Graft copolymer–metal complexes obtained by radiation grafting onto poly(tetrafluoroethylene-ethylene) copolymer. *Journal of Polymer Science Part A*, **1993**, 31, 527-533	2.5	34
31	Radiation-induced graft polymerization of acrylic acid onto fluorinated polymers. I. Kinetic study on the grafting onto poly(tetrafluoroethylene-ethylene) copolymer. *Journal of Polymer Science Part A*, **1992**, 30, 1969-1976	2.5	29
30	Irradiation effects on aromatic polymers: 1. Gas evolution by gamma irradiation. *Polymer*, **1992**, 33, 2897-2903	3.9	58
29	Irradiation effects on aromatic polymers: 3. Changes in thermal properties by gamma irradiation. *Polymer*, **1992**, 33, 2911-2914	3.9	29
28	Irradiation effects on aromatic polymers: 2. Gas evolution during electron-beam irradiation. *Polymer*, **1992**, 33, 2904-2910	3.9	40
27	Some investigations and characterization of radiation-initiated graft polymerization onto fluorinated copolymer. *Polymer*, **1992**, 33, 4230-4235	3.9	8
26	Investigation of post-radiation grafting of acrylamide onto polypropylene films. *Polymer*, **1992**, 33, 96-99	3.9	25
25	Physical properties of graft copolymer-metal complexes obtained by radiation grafting onto poly(tetrafluoroethylene-co-perfluorovinyl ether). *European Polymer Journal*, **1992**, 28, 835-840	5.2	17

24	Radiation-initiated graft copolymerization of individual monomer and comonomer onto polyethylene and polytetrafluoroethylene films. *Journal of Applied Polymer Science*, **1990**, 39, 1029-1043	2.9	22
23	Preparation and some properties of hydrophilic membranes obtained by radiation grafting of methacrylic acid onto fluorinated polymers. *Journal of Applied Polymer Science*, **1990**, 41, 2637-2647	2.9	26
22	Study on non-ionic membrane prepared by radiation-induced graft polymerization. *International Journal of Radiation Applications and Instrumentation Nuclear Tracks and Radiation Measurements*, **1990**, 36, 365-370		1
21	Ion-containing reverse osmosis membranes obtained by radiation grafting method. *International Journal of Radiation Applications and Instrumentation Nuclear Tracks and Radiation Measurements*, **1989**, 33, 13-18		1
20	Preparation and properties of cationic membranes obtained by radiation grafting of methacrylic acid onto PTFE films. *Journal of Applied Polymer Science*, **1989**, 38, 1229-1242	2.9	30
19	Graft copolymers obtained by radiation grafting of methacrylic acid onto polypropylene films. *International Journal of Radiation Applications and Instrumentation Nuclear Tracks and Radiation Measurements*, **1989**, 33, 129-134		
18	Cationic membrane obtained by radiation grafting method. *International Journal of Radiation Applications and Instrumentation Nuclear Tracks and Radiation Measurements*, **1987**, 29, 111-116		0
17	Preparation and selected properties of ion-containing reverse osmosis membranes. *International Journal of Radiation Applications and Instrumentation Nuclear Tracks and Radiation Measurements*, **1986**, 28, 273-279		
16	Some investigations on the post radiation grafting of acrylamide onto polyethylene films. *International Journal of Radiation Applications and Instrumentation Nuclear Tracks and Radiation Measurements*, **1986**, 27, 323-328		1
15	Radiation-induced graft polymerization of acrylamide: Reverse osmosis properties of polyethylene-g-poly(acrylamide) membrane. *International Journal of Radiation Applications and Instrumentation Nuclear Tracks and Radiation Measurements*, **1986**, 27, 431-436		1
14	Electrical conductivity of anionic graft copolymers obtained by radiation grafting of 4-vinylpyridine onto poly(vinyl chloride). *International Journal of Radiation Applications and Instrumentation Nuclear Tracks and Radiation Measurements*, **1986**, 27, 443-446		
13	Radiation effect on stabilized polypropylene. *International Journal of Radiation Applications and Instrumentation Nuclear Tracks and Radiation Measurements*, **1986**, 27, 139-144		
12	Radiation-induced graft polymerization of acrylamide I. Preparation conditions and gel determination for polyethylene-grafted films. *Journal of Polymer Science Part A*, **1986**, 24, 1933-1942	2.5	17
11	Crosslinked grafted PVC obtained by direct radiation grafting. *Radiation Physics and Chemistry (1977)*, **1985**, 26, 143-149		18
10	Anionic membranes obtained by radiation grafting of 4-vinylpyridine onto poly(vinyl chloride). *Radiation Physics and Chemistry (1977)*, **1985**, 26, 157-163		17
9	Preirradiation grafting of N-vinyl-2-pyrrolidone onto poly(tetrafluoroethylene) and poly(tetrafluoroethylene-hexafluoropropylene) films. *Journal of Polymer Science: Polymer Chemistry Edition*, **1984**, 22, 493-502		20
8	Kinetic study of preirradiation grafting of acrylic acid onto poly(tetrafluoroethylene□perfluorovinyl ether) copolymer. *Journal of Polymer Science: Polymer Chemistry Edition*, **1984**, 22, 597-604		18
7	Membranes obtained by preirradiation grafting of acrylic acid onto poly(tetrafluoroethylene□perfluorovinyl ether). *Journal of Polymer Science: Polymer Chemistry Edition*, **1984**, 22, 3673-3685		19

6	The study on radiation grafting of acrylic acid onto fluorine-containing polymers. IV. Properties of membrane obtained by preirradiation grafting onto poly(tetrafluoroethylene-hexafluoropropylene). *Journal of Applied Polymer Science*, **1983**, 28, 1465-1479	2.9	39
5	The study on radiation grafting of acrylic acid onto fluorine-containing polymers. III. Kinetic study of preirradiation grafting onto poly(tetrafluoroethylene-hexafluoropropylene). *Journal of Applied Polymer Science*, **1982**, 27, 535-543	2.9	45
4	Radiation-induced oxidative degradation of isotactic polypropylene. *Journal of Applied Polymer Science*, **1981**, 26, 1361-1372	2.9	59
3	Radiation-induced oxidative degradation of poly(vinyl chloride). *Journal of Applied Polymer Science*, **1981**, 26, 2947-2957	2.9	41
2	Radiation grafting of acrylic acid onto fluorine-containing polymers. I. Kinetic study of preirradiation grafting onto poly(tetrafluoroethylene). *Journal of Applied Polymer Science*, **1981**, 26, 3117-3124	2.9	58
1	Study on radiation grafting of acrylic acid onto fluorine-containing polymers. II. Properties of membrane obtained by preirradiation grafting onto poly(tetrafluoroethylene). *Journal of Applied Polymer Science*, **1981**, 26, 3871-3883	2.9	34