

El-Sayed A Hegazy

List of Publications by Citations

Source: <https://exaly.com/author-pdf/10663271/el-sayed-a-hegazy-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Radiation synthesis of hydrogels to enhance sandy soils water retention and increase plant performance. <i>Journal of Applied Polymer Science</i> , 2004 , 93, 1360-1371	2.9	118
76	Radiation-induced degradation of chitosan for possible use as a growth promoter in agricultural purposes. <i>Carbohydrate Polymers</i> , 2010 , 79, 555-562	10.3	100
75	Radiation-induced oxidative degradation of isotactic polypropylene. <i>Journal of Applied Polymer Science</i> , 1981 , 26, 1361-1372	2.9	59
74	Irradiation effects on aromatic polymers: 1. Gas evolution by gamma irradiation. <i>Polymer</i> , 1992 , 33, 2897-2903	3.9	58
73	Radiation grafting of acrylic acid onto fluorine-containing polymers. I. Kinetic study of preirradiation grafting onto poly(tetrafluoroethylene). <i>Journal of Applied Polymer Science</i> , 1981 , 26, 3117-3124	2.9	58
72	Selective separation of some heavy metals by poly(vinyl alcohol)-grafted membranes. <i>Journal of Applied Polymer Science</i> , 2000 , 76, 125-132	2.9	52
71	Developing the potential ophthalmic applications of pilocarpine entrapped into polyvinylpyrrolidone-poly(acrylic acid) nanogel dispersions prepared by irradiation. <i>Biomacromolecules</i> , 2013 , 14, 688-98	6.9	50
70	Investigations and characterization of radiation grafted copolymers for possible practical use in waste water treatment. <i>Radiation Physics and Chemistry</i> , 2000 , 57, 85-95	2.5	49
69	Radiation induced crosslinking of polyacrylamide incorporated low molecular weights natural polymers for possible use in the agricultural applications. <i>Carbohydrate Polymers</i> , 2017 , 176, 19-28	10.3	47
68	Improvement of antioxidant activity of chitosan by chemical treatment and ionizing radiation. <i>International Journal of Biological Macromolecules</i> , 2012 , 50, 403-13	7.9	45
67	The study on radiation grafting of acrylic acid onto fluorine-containing polymers. III. Kinetic study of preirradiation grafting onto poly(tetrafluoroethylene-hexafluoropropylene). <i>Journal of Applied Polymer Science</i> , 1982 , 27, 535-543	2.9	45
66	Anionic/Cationic Membranes Obtained by a Radiation Grafting Method for Use in Waste Water Treatment. <i>Polymer International</i> , 1997 , 43, 321-332	3.3	43
65	Radiation-induced oxidative degradation of poly(vinyl chloride). <i>Journal of Applied Polymer Science</i> , 1981 , 26, 2947-2957	2.9	41
64	Irradiation effects on aromatic polymers: 2. Gas evolution during electron-beam irradiation. <i>Polymer</i> , 1992 , 33, 2904-2910	3.9	40
63	The study on radiation grafting of acrylic acid onto fluorine-containing polymers. IV. Properties of membrane obtained by preirradiation grafting onto poly(tetrafluoroethylene-hexafluoropropylene). <i>Journal of Applied Polymer Science</i> , 1983 , 28, 1465-1479	2.9	39
62	Controlling the size and swellability of stimuli-responsive polyvinylpyrrolidone-poly(acrylic acid) nanogels synthesized by gamma radiation-induced template polymerization. <i>European Polymer Journal</i> , 2013 , 49, 601-612	5.2	37
61	Radiation-induced graft polymerization of acrylic acid onto fluorinated polymers. II. Graft copolymer-metal complexes obtained by radiation grafting onto poly(tetrafluoroethylene-ethylene) copolymer. <i>Journal of Polymer Science Part A</i> , 1993 , 31, 527-533	2.5	34

60	Study on radiation grafting of acrylic acid onto fluorine-containing polymers. II. Properties of membrane obtained by preirradiation grafting onto poly(tetrafluoroethylene). <i>Journal of Applied Polymer Science</i> , 1981 , 26, 3871-3883	2.9	34
59	Reinforced material from reclaimed rubber/natural rubber, using electron beam and thermal treatment. <i>Journal of Applied Polymer Science</i> , 2007 , 104, 2569-2578	2.9	32
58	Preparation and characterization of supported hydrogels obtained by radiation grafting of binary monomers. <i>Radiation Physics and Chemistry</i> , 1999 , 55, 219-229	2.5	32
57	Separation and extraction of some heavy and toxic metal ions from their wastes by grafted membranes. <i>Journal of Applied Polymer Science</i> , 2001 , 81, 849-860	2.9	31
56	Membranes prepared by radiation grafting of binary monomers for adsorption of heavy metals from industrial wastes. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1999 , 151, 386-392	1.2	31
55	Preparation and properties of cationic membranes obtained by radiation grafting of methacrylic acid onto PTFE films. <i>Journal of Applied Polymer Science</i> , 1989 , 38, 1229-1242	2.9	30
54	Effect of various environmental conditions on the swelling property of PAAM/PAAcK superabsorbent hydrogel prepared by ionizing radiation. <i>Journal of Applied Polymer Science</i> , 2006 , 101, 3955-3962	2.9	29
53	Advances in radiation grafting. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2001 , 185, 235-240	1.2	29
52	Radiation-induced graft polymerization of acrylic acid onto fluorinated polymers. I. Kinetic study on the grafting onto poly(tetrafluoroethylene-ethylene) copolymer. <i>Journal of Polymer Science Part A</i> , 1992 , 30, 1969-1976	2.5	29
51	Irradiation effects on aromatic polymers: 3. Changes in thermal properties by gamma irradiation. <i>Polymer</i> , 1992 , 33, 2911-2914	3.9	29
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. <i>Journal of Applied Polymer Science</i> , 2004 , 92, 2642-2652	2.9	27
49	Studies on mechanical, thermal and morphological properties of irradiated recycled polyamide and waste rubber powder blends. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010 , 268, 1427-1434	1.2	26
48	Preparation and some properties of hydrophilic membranes obtained by radiation grafting of methacrylic acid onto fluorinated polymers. <i>Journal of Applied Polymer Science</i> , 1990 , 41, 2637-2647	2.9	26
47	Thermo-mechanical properties of devulcanized rubber/high crystalline polypropylene blends modified by ionizing radiation. <i>Journal of Industrial and Engineering Chemistry</i> , 2013 , 19, 1241-1250	6.3	25
46	Investigation of post-radiation grafting of acrylamide onto polypropylene films. <i>Polymer</i> , 1992 , 33, 96-99	3.9	25
45	Characterization and application of radiation grafted membranes in treatment of intermediate active waste. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1999 , 151, 393-398	1.2	22
44	Radiation-initiated graft copolymerization of individual monomer and comonomer onto polyethylene and polytetrafluoroethylene films. <i>Journal of Applied Polymer Science</i> , 1990 , 39, 1029-1043	2.9	22
43	Preirradiation grafting of N-vinyl-2-pyrrolidone onto poly(tetrafluoroethylene) and poly(tetrafluoroethylene-hexafluoropropylene) films. <i>Journal of Polymer Science: Polymer Chemistry Edition</i> , 1984 , 22, 493-502		20

42	Membranes obtained by preirradiation grafting of acrylic acid onto poly(tetrafluoroethylene-perfluorovinyl ether). <i>Journal of Polymer Science: Polymer Chemistry Edition</i> , 1984 , 22, 3673-3685		19
41	Investigation of radiation grafting of vinyl acetate onto (tetrafluoroethylene-perfluorovinyl ether) copolymer films. <i>Polymer International</i> , 1994 , 33, 285-291	3.3	18
40	Kinetic study of preirradiation grafting of acrylic acid onto poly(tetrafluoroethylene-perfluorovinyl ether) copolymer. <i>Journal of Polymer Science: Polymer Chemistry Edition</i> , 1984 , 22, 597-604		18
39	Crosslinked grafted PVC obtained by direct radiation grafting. <i>Radiation Physics and Chemistry (1977)</i> , 1985 , 26, 143-149		18
38	Physical properties of graft copolymer-metal complexes obtained by radiation grafting onto poly(tetrafluoroethylene-co-perfluorovinyl ether). <i>European Polymer Journal</i> , 1992 , 28, 835-840	5.2	17
37	Radiation-induced graft polymerization of acrylamide I. Preparation conditions and gel determination for polyethylene-grafted films. <i>Journal of Polymer Science Part A</i> , 1986 , 24, 1933-1942	2.5	17
36	Anionic membranes obtained by radiation grafting of 4-vinylpyridine onto poly(vinyl chloride). <i>Radiation Physics and Chemistry (1977)</i> , 1985 , 26, 157-163		17
35	Radiation synthesis of copolymers for adsorption of dyes from their industrial wastes. <i>Journal of Applied Polymer Science</i> , 2005 , 96, 753-763	2.9	16
34	Properties of polyacrylamide-based hydrogels prepared by electron beam irradiation for possible use as bioactive controlled delivery matrices. <i>Journal of Applied Polymer Science</i> , 2005 , 98, 1262-1270	2.9	16
33	Preparation of poly(vinyl alcohol) grafted with acrylic acid/styrene binary monomers for selective permeation of heavy metals. <i>Journal of Applied Polymer Science</i> , 1999 , 74, 806-815	2.9	16
32	Nanoscale poly(acrylic acid)-based hydrogels prepared via a green single-step approach for application as low-viscosity biomimetic fluid tears. <i>Materials Science and Engineering C</i> , 2020 , 110, 110726	8.3	13
31	Synergistic effect of short reinforced fibers and gamma rays on the thermal and mechanical properties of waste poly(propylene) composites. <i>Journal of Applied Polymer Science</i> , 2005 , 96, 1741-1747	2.9	12
30	Gamma irradiated chitosan and its derivatives as antioxidants for minced chicken. <i>Bioscience, Biotechnology and Biochemistry</i> , 2015 , 79, 997-1004	2.1	11
29	Use of radiation grafted PVC-acrylamide membranes in radioactive waste treatment. <i>Polymer International</i> , 2002 , 51, 150-155	3.3	11
28	Use of radiation-grafted polyethylene in dialysis of low molecular weight metabolites. <i>Polymer International</i> , 1999 , 48, 593-601	3.3	11
27	Preparation and Characterization of Poly Vinyl Alcohol/Poly Vinyl Pyrrolidone/Clay Based Nanocomposite by Gamma Irradiation. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2012 , 49, 1041-1051	2.2	9
26	Radiation-initiated graft copolymerization of acrylic acid and vinyl acetate onto LDPE films in two individual steps. <i>Polymer International</i> , 1993 , 32, 131-135	3.3	9
25	Antioxidative properties of irradiated chitosan/vitamin C complex and their use as food additive for lipid storage. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	8

24	Controlled release of indole-3-butyric acid (IBA) based on polymeric matrix prepared by ionizing radiation. <i>Polymers for Advanced Technologies</i> , 2004 , 15, 544-550	3.2	8
23	Some investigations and characterization of radiation-initiated graft polymerization onto fluorinated copolymer. <i>Polymer</i> , 1992 , 33, 4230-4235	3.9	8
22	Characterization and radiation modification of low density polyethylene/polystyrene/maleic anhydride/magnesium hydroxide blend nanocomposite. <i>Materials Chemistry and Physics</i> , 2020 , 252, 123204	4.4	7
21	Effects of peroxide and gamma radiation on properties of devulcanized rubber/polypropylene/ethylene propylene diene monomer formulation. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	7
20	Description of D-glucosamine immobilization kinetics onto poly(lactic acid) surface via a multistep physicochemical approach for preparation of novel active biomaterials. <i>Journal of Biomedical Materials Research - Part A</i> , 2017 , 105, 3176-3188	5.4	7
19	Radiation copolymerization of (PVA/4-VP) hydrogel for treatment of industrial waste dyes. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2003 , 52, 901-916	3	7
18	Radiation Synthesis of Grafted Polymers for Studying Thermoluminescence Characterization and Its Possible Application as a Dosimeter at Low Doses. <i>Polymer-Plastics Technology and Engineering</i> , 2009 , 48, 423-431		5
17	Removal of cesium-134 and cobalt-60 with radiation-grafted copolymers from their liquid wastes. <i>Journal of Applied Polymer Science</i> , 2005 , 95, 936-945	2.9	5
16	Separation of Tc-99m by means of radiation-grafted membranes. <i>Journal of Applied Polymer Science</i> , 2001 , 81, 1207-1215	2.9	4
15	Synthesis of Poly(aniline/glycidyl methacrylate)-TiO ₂ Nanocomposites via Gamma Irradiation and Their Electro-Responsive Characteristic. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2017 , 27, 1482-1490	3.2	3
14	Radiation synthesis and characterization of poly (aniline/glycidyl methacrylate) /Ag ₂ O nanocomposites. <i>Inorganic Chemistry Communication</i> , 2020 , 114, 107844	3.1	2
13	Reinforcement of irradiated waste polyamide/reclaimed rubber powder composites with glass fiber. <i>Polymer Composites</i> , 2016 , 37, 1539-1548	3	2
12	Physical properties of irradiated thermoplastic elastomeric olefins based on (devulcanized rubber)/(high crystalline polypropylene) formulations. <i>Journal of Vinyl and Additive Technology</i> , 2015 , 21, 33-41	2	1
11	Thermal and morphological behavior of irradiated composite materials based on injection-moulded recycled polyethylene terephthalate. <i>Journal of Applied Polymer Science</i> , 2008 , 107, 3974-3980	2.9	1
10	Characterization and some properties of functionalized graft copolymer. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2002 , 51, 1045-1060	3	1
9	Ion-containing reverse osmosis membranes obtained by radiation grafting method. <i>International Journal of Radiation Applications and Instrumentation Nuclear Tracks and Radiation Measurements</i> , 1989 , 33, 13-18		1
8	Study on non-ionic membrane prepared by radiation-induced graft polymerization. <i>International Journal of Radiation Applications and Instrumentation Nuclear Tracks and Radiation Measurements</i> , 1990 , 36, 365-370		1
7	Some investigations on the post radiation grafting of acrylamide onto polyethylene films. <i>International Journal of Radiation Applications and Instrumentation Nuclear Tracks and Radiation Measurements</i> , 1986 , 27, 323-328		1

- 6 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
- 5 Cationic membrane obtained by radiation grafting method. *International Journal of Radiation Applications and Instrumentation Nuclear Tracks and Radiation Measurements*, **1987**, 29, 111-116 0
- 4 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
- 3 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
- 2 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
- 1 Radiation effect on stabilized polypropylene. *International Journal of Radiation Applications and Instrumentation Nuclear Tracks and Radiation Measurements*, **1986**, 27, 139-144