Emilio Bucio

List of Publications by Year
in descending order

182	2,987	147801 31	265206 42
papers	citations	h-index	g-index

193	193	193	2485
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Gamma-irradiation applied in the synthesis of metallic and organic nanoparticles: A short review. Radiation Physics and Chemistry, 2020, 169, 107962.	2.8	104
2	Hydrogels Classification According to the Physical or Chemical Interactions and as Stimuli-Sensitive Materials. Gels, 2021, 7, 182.	4.5	101
3	Medical devices modified at the surface by Î³-ray grafting for drug loading and delivery. Expert Opinion on Drug Delivery, 2010, 7, 173-185.	5.0	82
4	Temperature and pH-Sensitive Swelling Behavior of Binary DMAEMA/4VP Grafts on Poly(propylene) Films. Macromolecular Materials and Engineering, 2007, 292, 214-219.	3.6	76
5	Polypropylene grafted with smart polymers (PNIPAAm/PAAc) for loading and controlled release of vancomycin. European Journal of Pharmaceutics and Biopharmaceutics, 2008, 70, 467-477.	4.3	72
6	Polymeric Composite of Magnetite Iron Oxide Nanoparticles and Their Application in Biomedicine: A Review. Polymers, 2022, 14, 752.	4.5	69
7	Cyclodextrin-functionalized biomaterials loaded with miconazole prevent Candida albicans biofilm formation in vitro. Acta Biomaterialia, 2010, 6, 1398-1404.	8.3	56
8	An Updated Review of Macro, Micro, and Nanostructured Hydrogels for Biomedical and Pharmaceutical Applications. Pharmaceutics, 2020, 12, 970.	4.5	54
9	Acrylic polymer-grafted polypropylene sutures for covalent immobilization or reversible adsorption of vancomycin. International Journal of Pharmaceutics, 2014, 461, 286-295.	5.2	44
10	Radiation grafting of N,Nâ€²-dimethylacrylamide and N-isopropylacrylamide onto polypropylene films by two-step method. Radiation Physics and Chemistry, 2008, 77, 936-940.	2.8	43
11	Biofilm inhibition and drug-eluting properties of novel DMAEMA-modified polyethylene and silicone rubber surfaces. Biofouling, 2011, 27, 123-135.	2.2	42
12	Radiation-induced grafting of N-isopropylacrylamide and acrylic acid onto polypropylene films by two step method. Nuclear Instruments & Methods in Physics Research B, 2007, 265, 183-186.	1.4	41
13	Modification of medical grade PVC with N-vinylimidazole to obtain bactericidal surface. Radiation Physics and Chemistry, 2016, 119, 37-43.	2.8	41
14	Novel interpenetrating smart polymer networks grafted onto polypropylene by gamma radiation for loading and delivery of vancomycin. European Polymer Journal, 2009, 45, 1859-1867.	5.4	40
15	Radiation-grafting of 4-vinylpyridine and N-isopropylacrylamide onto polypropylene to give novel pH and thermo-sensitive films. Radiation Physics and Chemistry, 2009, 78, 1-7.	2.8	40
16	Radiation-grafting of thermo- and pH-responsive poly(N-vinylcaprolactam-co-acrylic acid) onto silicone rubber and polypropylene films for biomedical purposes. Radiation Physics and Chemistry, 2014, 97, 298-303.	2.8	40
17	Mucoadhesive thermo-responsive chitosan- g -poly(N -isopropylacrylamide) polymeric micelles via a one-pot gamma-radiation-assisted pathway. Colloids and Surfaces B: Biointerfaces, 2015, 136, 900-907.	5.0	40
18	Silicone rubber films functionalized with poly(acrylic acid) nanobrushes for immobilization of gold nanoparticles and photothermal therapy. Journal of Drug Delivery Science and Technology, 2017, 42, 245-254.	3.0	40

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19	Interaction between Filler and Polymeric Matrix in Nanocomposites: Magnetic Approach and Applications. Polymers, 2021, 13, 2998.	4.5	40
20	Surface characterization of binary grafting of AAc/NIPAAm onto poly(tetrafluoroethylene) (PTFE). Nuclear Instruments & Methods in Physics Research B, 2005, 234, 471-476.	1.4	39
21	Temperature Sensitive Behavior of Poly(N-isopropylacrylamide) Grafted Onto Electron Beam-Irradiated Poly(propylene). Macromolecular Materials and Engineering, 2005, 290, 745-752.	3.6	39
22	Cyclodextrin-functionalized polyethylene and polypropylene as biocompatible materials for diclofenac delivery. International Journal of Pharmaceutics, 2009, 382, 183-191.	5.2	38
23	Stimuli-responsive polymers for antimicrobial therapy: drug targeting, contact-killing surfaces and competitive release. Expert Opinion on Drug Delivery, 2016, 13, 1109-1119.	5.0	38
24	Interpenetrating Thermo and pH Stimuliâ€Responsive Polymer Networks of PAAc/PNIPAAm Grafted onto PP. Macromolecular Materials and Engineering, 2007, 292, 1176-1188.	3.6	37
25	Stimuliâ€“responsive networks grafted onto polypropylene for the sustained delivery of NSAIDs. Acta Biomaterialia, 2011, 7, 996-1008.	8.3	37
26	Antimicrobial silver-loaded polypropylene sutures modified by radiation-grafting. European Polymer Journal, 2018, 100, 290-297.	5.4	36
27	New Interpenetrating Polymer Networks of N-isopropylacrylamide/ N-acryloxysuccinimide: Synthesis and Characterization. Polymer Bulletin, 2008, 60, 515-524.	3.3	34
28	Radiation-induced grafting of functional acrylic monomers onto polyethylene and polypropylene films using acryloyl chloride. Polymer Bulletin, 2001, 46, 115-121.	3.3	33
29	Modification of polyethylene films by radiation grafting of glycidyl methacrylate and immobilization of Î²-cyclodextrin. Radiation Physics and Chemistry, 2009, 78, 19-24.	2.8	33
30	Temperature- and pH-sensitive interpenetrating polymer networks grafted on PP: Cross-linking irradiation dose as a critical variable for the performance as vancomycin-eluting systems. Radiation Physics and Chemistry, 2012, 81, 531-540.	2.8	33
31	Radiation grafting of pH and thermosensitive N-isopropylacrylamide and acrylic acid onto PTFE films by two-steps process. Radiation Physics and Chemistry, 2007, 76, 1724-1727.	2.8	32
32	Radiation-induced grafting of sensitive polymers. Journal of Radioanalytical and Nuclear Chemistry, 2009, 280, 239-243.	1.5	32
33	Radiation grafting of glycidyl methacrylate onto cotton gauzes for functionalization with cyclodextrins and elution of antimicrobial agents. Cellulose, 2012, 19, 2165-2177.	4.9	31
34	Graft copolymerization by ionization radiation, characterization, and enzymatic activity of temperature-responsive SR- g -PNVCL loaded with lysozyme. Reactive and Functional Polymers, 2018, 126, 74-82.	4.1	30
35	Thermo and pH Sensitive Copolymer Based on Acrylic Acid and N-Isopropylacrylamide Grafted onto Polypropylene. Polymer Bulletin, 2008, 60, 79-87.	3.3	27
36	Radiation-grafting of N-vinylimidazole onto silicone rubber for antimicrobial properties. Radiation Physics and Chemistry, 2015, 110, 59-66.	2.8	27

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37	Structural and morphology comparison between m-LaVO4 and LaVO3 compounds prepared by solâ€“gel acrylamide polymerization and solid state reaction. Journal of Alloys and Compounds, 2009, 479, 511-519.	5.5	26
38	Radiation Grafting for the Functionalization and Development of Smart Polymeric Materials. Topics in Current Chemistry, 2016, 374, 63.	5.8	26
39	Electron beam irradiation effects on poly(ethylene terephthalate). Radiation Physics and Chemistry, 2007, 76, 1728-1731.	2.8	24
40	Polypropylene grafted with NIPAAm and APMA for creating hemocompatible surfaces that load/elute nalidixic acid. Reactive and Functional Polymers, 2010, 70, 836-842.	4.1	23
41	Radiation-grafting of ethylene glycol dimethacrylate (EGDMA) and glycidyl methacrylate (GMA) onto silicone rubber. Radiation Physics and Chemistry, 2016, 127, 21-26.	2.8	23
42	Radiation grafting of poly(methyl methacrylate) and poly(vinylimidazole) onto polytetrafluoroethylene films and silver immobilization for antimicrobial performance. Applied Surface Science, 2019, 473, 951-959.	6.1	23
43	Immobilization of antimicrobial and anti-quorum sensing enzymes onto GMA-grafted poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 1	5.2	23
44	Synthesis and characterization of hydrophilically modified TecoflexÂ® polyurethane catheters for drug delivery. Materials Today Communications, 2021, 26, 101894.	1.9	22
45	Radiation synthesis of a thermo-pH responsive binary graft copolymer (PP-g-DMAEMA)-g-NIPAAm by a two step method. Polymer Bulletin, 2008, 61, 619-629.	3.3	21
46	Synthesis and characterization of new fluorine-containing polyethers. Polymer, 2003, 44, 6431-6434.	3.8	20
47	Synthesis and Antimicrobial Properties of Highly Cross-Linked pH-Sensitive Hydrogels through Gamma Radiation. Polymers, 2021, 13, 2223.	4.5	20
48	Smart Polymers and Coatings Obtained by Ionizing Radiation: Synthesis and Biomedical Applications. Open Journal of Polymer Chemistry, 2015, 05, 17-33.	3.3	20
49	Antimicrobial Activity of Composites-Based on Biopolymers. Macromol, 2022, 2, 258-283.	4.4	20
50	Characterization of interpenetrating networks of acrylic acid (AAc) and N-isopropylacrylamide (NIPAAm) synthesized by ionizing radiation. Radiation Physics and Chemistry, 2009, 78, 549-552.	2.8	19
51	Synthesis and characterization of novel <scp>pH</scp>â€sensitive chitosanâ€poly(acrylamideâ€coâ€itaconic acid) hydrogels. Polymer International, 2014, 63, 1715-1723.	3.1	19
52	Binary Graft Modification of Polypropylene for Antiâ€Inflammatory Drugâ€“Device Combo Products. Journal of Pharmaceutical Sciences, 2014, 103, 1269-1277.	3.3	18
53	Radiation-grafting of acrylamide onto silicone rubber films for diclofenac delivery. Radiation Physics and Chemistry, 2015, 107, 164-170.	2.8	18
54	Poly(vinyl chloride) catheters modified with pH-responsive poly(methacrylic acid) with affinity for antimicrobial agents. Radiation Physics and Chemistry, 2018, 142, 107-114.	2.8	18

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55	Synthesis and properties of aliphatic spirodilactam diphenol containing polyesters. Polymer, 2005, 46, 3971-3974.	3.8	17
56	Comparative study of grafting a polyampholyte in a fluoropolymer membrane by gamma radiation in one or two-steps. Radiation Physics and Chemistry, 2013, 92, 61-65.	2.8	17
57	Preparation of stimuliâ€responsive nanogels of poly [2â€(dimethylamino) ethyl methacrylate] by heterophase and microemulsion polymerization using gamma radiation. Polymer Engineering and Science, 2014, 54, 1625-1631.	3.1	17
58	Silicone Rubber Modified with Methacrylic Acid to Host Antiseptic Drugs. Macromolecular Materials and Engineering, 2014, 299, 1240-1250.	3.6	17
59	One-step grafting of temperature-and pH-sensitive (N-vinylcaprolactam-co-4-vinylpyridine) onto silicone rubber for drug delivery. Designed Monomers and Polymers, 2017, 20, 33-41.	1.6	17
60	Functionalization of polypropylene film by radiation grafting of acryloyl chloride and subsequent esterification with Disperse Red 1. Journal of Applied Polymer Science, 2004, 93, 172-178.	2.6	16
61	Surface modification by Î³-ray-induced grafting of PDMAEMA/PEGMEMA onto PE films. Radiation Physics and Chemistry, 2009, 78, 485-488.	2.8	16
62	PP films grafted with N-isopropylacrylamide and N-(3-aminopropyl) methacrylamide by Î³ radiation: synthesis and characterization. Radiation Physics and Chemistry, 2010, 79, 615-621.	2.8	16
63	Synthesis and characterization of stimuli-responsive polypropylene containing N -vinylcaprolactam and N -vinylimidazole obtained by ionizing radiation. Materials Science and Engineering C, 2016, 67, 353-361.	7.3	16
64	Radiation grafting of N,N-dimethylaminoethylmethacrylate and 4-vinylpyridine onto polypropylene by the one- and two-step methods. Polymer Bulletin, 2002, 47, 571-577.	3.3	15
65	Radiation Grafting of N-Isopropylacrylamide onto Poly(vinyl chloride) tubes by Gamma Irradiation. Polymer Bulletin, 2007, 58, 401-409.	3.3	15
66	Wound debridement and antibiofilm properties of gamma-ray DMAEMA-grafted onto cotton gauzes. Cellulose, 2014, 21, 3767-3779.	4.9	15
67	Improved covalent immobilization of lysozyme on silicone rubber-films grafted with poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlo	5.4	15
68	Achieving antimicrobial activity through poly(N-methylvinylimidazolium) iodide brushes on binary-grafted polypropylene suture threads. MRS Communications, 2017, 7, 938-946.	1.8	15
69	Polymer-Magnetic Semiconductor Nanocomposites for Industrial Electronic Applications. Polymers, 2022, 14, 2467.	4.5	15
70	Radiation-grafting of 2-bromoethylacrylate onto polyethylene film by preirradiation method. Radiation Physics and Chemistry, 1996, 48, 805-810.	2.8	14
71	Stimuli-Sensitive Behaviour of Binary Graft Co-polymers (PP-g-DMAEMA)-g-NIPAAm and (PP-g-4VP)-g-NIPAAm in Acidic and Basic Medium. Designed Monomers and Polymers, 2009, 12, 99-108.	1.6	14
72	Synthesis of polyamide-6@cellulose microfilms grafted with N-vinylcaprolactam using gamma-rays and loading of antimicrobial drugs. Cellulose, 2020, 27, 2785-2801.	4.9	14

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73	Poly(N-vinylcaprolactam) and Salicylic Acid Polymeric Prodrug Grafted onto Medical Silicone to Obtain a Novel Thermo- and pH-Responsive Drug Delivery System for Potential Medical Devices. Materials, 2021, 14, 1065.	2.9	14
74	New spirodilactam polymers. Polymer, 2006, 47, 6927-6930.	3.8	13
75	Radiation polymerization and crosslinking of (N-isopropylacrylamide) in solution and in solid state. Polymer Bulletin, 2007, 58, 565-573.	3.3	13
76	Novel solâ€“gel methodology to produce LaCoO3 by acrylamide polymerization assisted by Î³-irradiation. Radiation Physics and Chemistry, 2012, 81, 512-518.	2.8	13
77	Surface Modification of Polyester-Fabric with Hydrogels and Silver Nanoparticles: Photochemical Versus Gamma Irradiation Methods. Materials, 2019, 12, 3284.	2.9	13
78	Radiation-grafting of N-vinylcaprolactam and 2-hydroxyethyl methacrylate onto polypropylene films to obtain a thermo-responsive drug delivery system. Radiation Physics and Chemistry, 2019, 157, 6-14.	2.8	13
79	Aqueous polymerizations. , 2020, , 275-318.		13
80	Fast photocatalytic polypropylene degradation by nanostructured bismuth catalysts. Polymer Degradation and Stability, 2021, 190, 109648.	5.8	13
81	Radiation grafting of dimethylaminoethylmethacrylate onto poly(propylene). Radiation Physics and Chemistry, 1998, 52, 193-196.	2.8	12
82	Synthesis and characterization of azo acrylates grafted onto polyethylene terephthalate by gamma irradiation. Nuclear Instruments & Methods in Physics Research B, 2005, 236, 301-306.	1.4	12
83	Synthesis and Characterization of New Polyesters Derived from Diphenols and Aromatic Diacids Chlorides. Polymer Bulletin, 2006, 56, 163-170.	3.3	12
84	Gas Transport Properties of Some Fluorine-Containing Polyethers. Industrial & Engineering Chemistry Research, 2010, 49, 11948-11953.	3.7	12
85	Temperatureâ€•and pHâ€sensitive IPNs grafted onto polyurethane by gamma radiation for antimicrobial drugâ€eluting insertable devices. Journal of Applied Polymer Science, 2014, 131, .	2.6	12
86	Polymeric prodrugâ¿¿functionalized polypropylene films for sustained release of salicylic acid. International Journal of Pharmaceutics, 2016, 511, 579-585.	5.2	12
87	Controlled surface modification of silicone rubber by gamma-irradiation followed by RAFT grafting polymerization. European Polymer Journal, 2020, 134, 109817.	5.4	12
88	Functionalization of cotton gauzes with poly(N-vinylimidazole) and quaternized poly(N-vinylimidazole) with gamma radiation to produce medical devices with pH-buffering and antimicrobial properties. Cellulose, 2021, 28, 3279-3294.	4.9	12
89	Highly Crosslinked Agar/Acrylic Acid Hydrogels with Antimicrobial Properties. Gels, 2021, 7, 183.	4.5	12
90	Radiation Grafting of N-Isopropylacrylamide Onto Polypropylene Films by Preirradiation Method. Molecular Crystals and Liquid Crystals, 2006, 447, 203/[521]-213/[531].	0.9	11

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91	Radiation grafting of N,Nâ€²-dimethylacrylamide and 2-hydroxyethylmethacrylate onto polypropylene films by one step method. Radiation Physics and Chemistry, 2013, 84, 166-169.	2.8	11
92	Grafting of thermo-sensitive N-vinylcaprolactam onto silicone rubber through the direct radiation method. Radiation Physics and Chemistry, 2016, 124, 155-158.	2.8	11
93	Lysozyme immobilization onto PVC catheters grafted with NVCL and HEMA for reduction of bacterial adhesion. Radiation Physics and Chemistry, 2016, 126, 1-8.	2.8	11
94	Radiation-grafting of vinyl monomers separately onto polypropylene monofilament sutures. Radiation Physics and Chemistry, 2017, 132, 1-7.	2.8	11
95	Modification of PDMS with acrylic acid and acrylic acid/ethylene glycol dimethacrylate by simultaneous polymerization assisted by gamma radiation. Radiation Physics and Chemistry, 2020, 171, 108754.	2.8	11
96	Modification of cotton gauzes with poly(acrylic acid) and poly(methacrylic acid) using gamma radiation for drug loading studies. Radiation Physics and Chemistry, 2022, 190, 109787.	2.8	11
97	Novel pH- and Temperature-Sensitive Behavior of Binary Graft DMAEMA/PEGMEMA onto LDPE Membranes. Designed Monomers and Polymers, 2009, 12, 543-552.	1.6	10
98	Radiation-grafting of 2-hydroxyethylmethacrylate and oligo (ethylene glycol) methyl ether methacrylate onto polypropylene films by one step method. Radiation Physics and Chemistry, 2012, 81, 27-32.	2.8	10
99	Temperature-responsiveness and biocompatibility of DEGMA/OEGMA radiation-grafted onto PP and LDPE films. Radiation Physics and Chemistry, 2014, 99, 53-61.	2.8	10
100	Grafting of Nâ€vinyl caprolactam and methacrylic acid onto silicone rubber films for drugâ€eluting products. Journal of Applied Polymer Science, 2015, 132, .	2.6	10
101	Covalent immobilization of lysozyme in silicone rubber modified by easy chemical grafting. MRS Communications, 2017, 7, 904-912.	1.8	10
102	Radiation Grafting of a Polymeric Prodrug onto Silicone Rubber for Potential Medical/Surgical Procedures. Polymers, 2020, 12, 1297.	4.5	10
103	Antifungal polymers for medical applications. Medical Devices & Sensors, 2021, 4, e10134.	2.7	10
104	Photochemical Effect of Azocompounds Acrylates Grafted in Different Polymeric Matrices. Polymer Bulletin, 2005, 55, 191-199.	3.3	9
105	Î³-Ray-induced grafting of DMAEMA and AAc onto PP by two step method. Journal of Radioanalytical and Nuclear Chemistry, 2010, 284, 131-135.	1.5	9
106	Temperature- and pH-responsive behavior of a novel copolymer of (PP-g-DMAEMA)-g-AAc. Journal of Radioanalytical and Nuclear Chemistry, 2012, 292, 1-6.	1.5	9
107	Synthesis and characterization of thermosensitive interpenetrating polymer networks based on N-isopropylacrylamide/N-acryloxysuccinimide, crosslinked with polylysine, grafted onto polypropylene. Radiation Physics and Chemistry, 2012, 81, 295-300.	2.8	9
108	Development and characterization of thermal responsivehydrogel films for biomedical sensor application. Materials Research Express, 2018, 5, 045703.	1.6	9

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109	Radiation Grafting of Biopolymers and Synthetic Polymers. , 2018, , 205-250.		9
110	PEBAX^{TM}-Silanized Al₂O₃Composite. Synthesis and Characterization. Open Journal of Polymer Chemistry, 2012, 02, 63-69.	3.3	9
111	Radiation-grafting of N,N-dimethylaminoethylmetacrylate onto polyethylene film by preirradiation method. Polymer Bulletin, 1997, 38, 587-594.	3.3	8
112	Study on the interaction of diarylbutadiynes with free radicals: Interaction with propagating radicals of some vinyl monomers. Polymer Bulletin, 1999, 43, 357-364.	3.3	8
113	Radiation-induced grafting of stimuli-responsive binary monomers: PDMAEMA/PEGMEMA onto PP films. Journal of Radioanalytical and Nuclear Chemistry, 2010, 283, 559-563.	1.5	8
114	Radiation grafting of NIPAAm and acryloxysuccinimide onto PP films and sequent crosslinking with polylysine. European Polymer Journal, 2010, 46, 1074-1083.	5.4	8
115	Polymeric pro-drug sutures for potential local release of salicylic acid. International Journal of Polymeric Materials and Polymeric Biomaterials, 2018, 67, 792-799.	3.4	8
116	Adsorption and release of caffeine from smart PVDF polyampholyte membrane. Iranian Polymer Journal (English Edition), 2019, 28, 639-647.	2.4	8
117	Simultaneous Grafting Polymerization of Acrylic Acid and Silver Aggregates Formation by Direct Reduction Using Î³ Radiation onto Silicone Surface and Their Antimicrobial Activity and Biocompatibility. Molecules, 2021, 26, 2859.	3.8	8
118	Antimicrobial Polymers. Environmental and Microbial Biotechnology, 2021, , 1-42.	0.7	8
119	Polypropylene Graft Poly(methyl methacrylate) Graft Poly(N-vinylimidazole) as a Smart Material for pH-Controlled Drug Delivery. International Journal of Molecular Sciences, 2022, 23, 304.	4.1	8
120	Characterization of Hybrid Sol-Gel Coatings Doped with Hydrotalcite-likeCompounds on Steel and Stainless Steel Alloys. ECS Transactions, 2013, 47, 195-206.	0.5	7
121	Surface functionalization of polypropylene and polyethylene films with allylamine by Î³ radiation. MRS Communications, 2019, 9, 264-269.	1.8	7
122	Microstructural Comparison of La-V-O Compounds Prepared by Sol-Gel Acrylamide Polymerization and Solid State Reaction.. Microscopy and Microanalysis, 2009, 15, 1044-1045.	0.4	6
123	Temperature-responsive copolymeric hydrogel systems synthetized by ionizing radiation. Radiation Physics and Chemistry, 2017, 135, 113-120.	2.8	6
124	Polypropylene films modified by grafting-from of ethylene glycol dimethacrylate/glycidyl methacrylate using Î³-rays and antimicrobial biofunctionalization by Schiff bases. MRS Communications, 2018, 8, 168-177.	1.8	6
125	Poly(acrylic acid)-grafted hydrophobic weak acid gels as mucoadhesives for controlled drug release. Radiation Physics and Chemistry, 2019, 164, 108372.	2.8	6
126	Radiation grafting of poly(ethylene glycol) methacrylate onto poly(vinyl chloride) tubes. Designed Monomers and Polymers, 2007, 10, 459-467.	1.6	5

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127	Correlation of highâ€hydrophobic solâ€gel coatings with electrochemical and morphological measurements deposited on AA2024. Surface and Interface Analysis, 2016, 48, 670-675.	1.8	5
128	Synthesis of a thermo- and pH-sensitive comb-type graft copolymer by ionizing radiation. MRS Communications, 2018, 8, 1335-1342.	1.8	5
129	Grafting of glycerol methacrylate onto silicone rubber using Î³-rays: derivatization to 2-oxoethyl methacrylate and immobilization of lysozyme. MRS Communications, 2018, 8, 199-206.	1.8	5
130	Comonomer effect: Switching the lower critical solution temperature to upper critical solution temperature in thermoâ€pH sensitive binary graft copolymers. Journal of Applied Polymer Science, 2019, 136, 48170.	2.6	5
131	Antimicrobial polyurethane catheters synthesized by grafting-radiation method doped with silver nanoparticles. Reactive and Functional Polymers, 2021, 167, 105006.	4.1	5
132	Current Methods Applied to Biomaterials â€“ Characterization Approaches, Safety Assessment and Biological International Standards. Current Topics in Medicinal Chemistry, 2018, 18, 256-274.	2.1	5
133	Electron beam irradiation of fluoropolymers containing polyethers. Radiation Physics and Chemistry, 2009, 78, 119-123.	2.8	4
134	Synthesis of a pH- and Thermo- Responsive Binary Copolymer Poly(N-vinylimidazole-co-N-vinylcaprolactam) Grafted onto Silicone Films. Coatings, 2015, 5, 758-770.	2.6	4
135	Stimuli-Responsive Nanomaterials for Drug Delivery. , 2019, , 375-424.		4
136	Modification of relevant polymeric materials for medical applications and devices. Medical Devices & Sensors, 2020, 3, e10073.	2.7	4
137	Cellulose-Based Antimicrobial Materials. Environmental and Microbial Biotechnology, 2021, , 61-85.	0.7	4
138	Modification of indwelling PVC catheters by ionizing radiation with temperature- and pH-responsive polymers for antibiotic delivery. Radiation Physics and Chemistry, 2022, 193, 110005.	2.8	4
139	Studies on salts of amine-containing polymers with benzoic acids. III. Poly(N,N-dimethylaminoethyl) Tj ETQq1 1 0.784314 rgBT /Overlock	2.6	3
140	Synthesis and characterization of new polyethers containing aliphatic and aromatic spirodilactam. Designed Monomers and Polymers, 2006, 9, 55-62.	1.6	3
141	Gammaâ€irradiated silica solâ€“gel coatings as a function of dose on AA2024â€T3. Surface and Interface Analysis, 2014, 46, 1051-1056.	1.8	3
142	Corrosion Resistance of AA2024-T3 Coated with Graphene/Sol-Gel Films. Solid State Phenomena, 0, 227, 115-118.	0.3	3
143	Zinc heterocyclic vinyl complexes and their gamma-irradiated derivatives: From the metal to antimicrobial materials. Reactive and Functional Polymers, 2020, 146, 104410.	4.1	3
144	Zinc oxide enhancing hydrophilicity to [polytetrafluoroethylene-graft-poly(methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 Td (methacr 2022, 190, 109813.	2.8	3

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145	Antifouling PVC Catheters by Gamma Radiation-Induced Zwitterionic Polymer Grafting. Polymers, 2022, 14, 1185.	4.5	3
146	Effect of gamma radiation on fluoropolymers. Journal of Polymer Science Part A, 2009, 47, 1617-1626.	2.3	2
147	Gamma rays: An alternative energy source for the preparation of manganese carbonyls-based new materials. Applied Radiation and Isotopes, 2020, 156, 108983.	1.5	2
148	Improving thermoâ€responsive hydrogel films by gamma rays and loading of Cu and Ag nanoparticles. Journal of Applied Polymer Science, 2021, 138, 49841.	2.6	2
149	Microbial Degradation of Proteins. Environmental and Microbial Biotechnology, 2021, , 351-371.	0.7	2
150	Microbial Degradation of Lipids. Environmental and Microbial Biotechnology, 2021, , 251-272.	0.7	2
151	Green synthesized zinc oxide nanomaterials and its therapeutic applications. , 2021, , 237-261.		2
152	Modification of medical grade silicone with stimuli-responsive acrylic/methacrylic polymers for ciprofloxacin delivery, their antimicrobial activity and biocompatibility. MRS Communications, 2021, 11, 635.	1.8	2
153	Basics and green solvent parameter for environmental remediation. , 2021, , 219-237.		2
154	RadiaciÃ³n gamma para el diseÃ±o de sistemas inteligentes en liberaciÃ³n controlada de fÃ¡rmacos e ingenierÃa de tejidos. , 0, , 485-519.		2
155	Teflon graft poly Nâ€“N-dimethylacrylamide as a ciprofloxacin release system. Radiation Physics and Chemistry, 2022, 196, 110106.	2.8	2
156	Gamma-ray induced crosslinking of polynorbornene and its copolymer containing a stabilizing group. Polymer Bulletin, 1996, 37, 539-544.	3.3	1
157	Effect of gamma irradiation on molecular weight of fluorinated aromatic polyethers. Journal of Radioanalytical and Nuclear Chemistry, 2010, 284, 109-115.	1.5	1
158	Surface Morphology of Radiation-Grafted Binary Copolymers Measured in Buffer Solution under Swelling Condition. Japanese Journal of Applied Physics, 2010, 49, 01AF02.	1.5	1
159	Surface Characterization of Binary Graft Copolymers (PP-g-DMAEMA)-g-NIPAAm and (PP-g-4VP)-g-NIPAAm by Using SEM and AFM. ACS Symposium Series, 2010, , 107-120.	0.5	1
160	Radiation-Grafting of Cotton-g-DMAEMA for Biomedical Applications. Materials Research Society Symposia Proceedings, 2012, 1483, 30.	0.1	1
161	Crosslinking of poly(vinyl acetate) nanolatices by gamma and UV radiation. Journal of Applied Polymer Science, 2012, 126, 1328-1336.	2.6	1
162	Solid State NMR Analysis of Two Grafted Biopolymers. Materials Research Society Symposia Proceedings, 2015, 1767, 113-118.	0.1	1

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163	Conductive Polymer Composites Synthesized from Diacetylene-Functionalized Linseed Oil and MWCNT: Gamma Irradiation and Organic Vapor Sensing. Journal of Renewable Materials, 2017, 5, 132-144.	2.2	1
164	Effect of gamma radiation on pyromellitic acid (PMA) and UO22+â^'PMA solutions. Radiation Physics and Chemistry, 2019, 165, 108378.	2.8	1
165	Microbial Degradation of Disinfectants. Environmental and Microbial Biotechnology, 2021, , 91-130.	0.7	1
166	Sonochemical synthesis of inorganic nanomaterials. , 2021, , 263-279.		1
167	N-Vinylcaprolactam grafting onto cotton gauze by gamma radiation for loading and controlled release of antibacterial silver nanoparticles. MRS Advances, 2020, 5, 3227-3237.	0.9	1
168	Synthesis of Temperature- and pH-Sensitive Graft Copolymer Containing 2-(Diethylamino)ethyl Methacrylate and N-Vinylcaprolactam onto Silicone Rubber. Open Journal of Polymer Chemistry, 2016, 06, 15-26.	3.3	1
169	Cross-Linked Polymer-Based Adsorbents and Membranes for Dye Removal. Sustainable Textiles, 2022, , 263-289.	0.7	1
170	Lignin-Based Membrane for Dye Removal. Sustainable Textiles, 2022, , 181-213.	0.7	1
171	Recent advances on carbon-carbon bond forming reactions in water. , 2020, , 357-386.		1
172	Silver Composites as Antimicrobial Materials. Environmental and Microbial Biotechnology, 2021, , 127-147.	0.7	1
173	Free radical copolymerization of 4-phenylbut-1-en-3-yne with methylmethacrylate. Polymer Bulletin, 1996, 36, 287-293.	3.3	0
174	Radiation-Grafting of Thermo- and pH-Sensitive Poly(N-Vinylcaprolactam-co-Acrylic Acid) onto Silicone Rubber and Polypropylene Films. Materials Research Society Symposia Proceedings, 2014, 1613, 53-59.	0.1	0
175	Development of ionic-imprinted polyesters of diallyl dicarboxylic acids (DAPY) for uranyl ion extraction (UO22+). MRS Communications, 2019, 9, 327-333.	1.8	0
176	Antimicrobial Materials and Devices for Biomedical Applications. Frontiers in Clinical Drug Research - Anti Infectives, 2020, , 78-126.	0.7	0
177	Interaction of Dye Molecules with Fungi: Operational Parameters and Mechanisms. Sustainable Textiles, 2022, , 165-191.	0.7	0
178	Antimicrobial Materials for Local Drug Delivery. Environmental and Microbial Biotechnology, 2021, , 285-319.	0.7	0
179	Antimicrobial Membranes for Water Treatment. Environmental and Microbial Biotechnology, 2021, , 321-358.	0.7	0
180	Natural Antimicrobial Materials. Environmental and Microbial Biotechnology, 2021, , 149-169.	0.7	0

#	Article	IF	Citations
181	Drug-Medical Device Combination Product Design and Quality Control. Advances in Medical Technologies and Clinical Practice Book Series, 2022, , 37-53.	0.3	0
182	Aplicaciones de radiaciÃ³n gamma y UV para el injerto molecular y el diseÃ±o de matrices para aplicaciones terapÃ©uticas. , 0, , 453-484.		0