

Mohamed M Ghobashy

List of Publications by Citations

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

92
papers

1,036
citations

18
h-index

26
g-index

98
ext. papers

1,312
ext. citations

3.8
avg, IF

5.4
L-index

#	Paper	IF	Citations
92	Phosphorylation of chitosan/HEMA interpenetrating polymer network prepared by Γ radiation for metal ions removal from aqueous solutions. <i>Carbohydrate Polymers</i> , 2017 , 162, 16-27	10.3	50
91	Synthesis and electrical response of acrylic acid/vinyl sulfonic acid hydrogels prepared by Γ radiation. <i>Radiation Physics and Chemistry</i> , 2006 , 75, 1041-1046	2.5	45
90	pH-sensitive wax emulsion copolymerization with acrylamide hydrogel using gamma irradiation for dye removal. <i>Radiation Physics and Chemistry</i> , 2017 , 134, 47-55	2.5	44
89	Design of a stable solid-contact ion-selective electrode based on polyaniline nanoparticles as ion-to-electron transducer for application in process analytical technology as a real-time analyzer. <i>Sensors and Actuators B: Chemical</i> , 2015 , 208, 14-21	8.5	43
88	Spectrophotometric methods for the simultaneous determination of binary mixture of metronidazole and diloxanide furoate without prior separation. <i>Journal of Advanced Research</i> , 2010 , 1, 323-329	13	43
87	Combined ultrasonic and gamma-irradiation to prepare TiO@PET-g-PAAC fabric composite for self-cleaning application. <i>Ultrasonics Sonochemistry</i> , 2017 , 37, 529-535	8.9	36
86	Identification of marine microplastics in Eastern Harbor, Mediterranean Coast of Egypt, using differential scanning calorimetry. <i>Marine Pollution Bulletin</i> , 2019 , 142, 494-503	6.7	30
85	Controlled release fertilizers using superabsorbent hydrogel prepared by gamma radiation. <i>Radiochimica Acta</i> , 2017 , 105,	1.9	26
84	pH stimuli-responsive poly(acrylamide-co -sodium alginate) hydrogels prepared by Γ radiation for improved compressive strength of concrete. <i>Advances in Polymer Technology</i> , 2018 , 37, 2123-2133	1.9	24
83	Simultaneous determination of metformin hydrochloride and pioglitazone hydrochloride in binary mixture and in their ternary mixture with pioglitazone acid degradate using spectrophotometric and chemometric methods. <i>Drug Testing and Analysis</i> , 2009 , 1, 339-49	3.5	24
82	Strategy for Fabrication of Stable Tramadol Solid-Contact Ion-Selective Potentiometric Sensor Based on Polyaniline Nanoparticles. <i>Journal of the Electrochemical Society</i> , 2015 , 162, H1-H5	3.9	23
81	Stability-indicating spectrophotometric and densitometric methods for determination of aceclofenac. <i>Drug Development and Industrial Pharmacy</i> , 2002 , 28, 571-82	3.6	23
80	Chemical Modification of Nano Polyacrylonitrile Prepared by Emulsion Polymerization Induced by Gamma Radiation and Their Use for Removal of Some Metal Ions. <i>Journal of Polymers and the Environment</i> , 2017 , 25, 343-348	4.5	22
79	Radiation Crosslinking of Modifying Super Absorbent (Polyacrylamide/Gelatin) Hydrogel as Fertilizers Carrier and Soil Conditioner. <i>Journal of Polymers and the Environment</i> , 2018 , 26, 3981-3994	4.5	20
78	Thermal analysis and enhanced visual technique for assessment of microplastics in fish from an Urban Harbor, Mediterranean Coast of Egypt. <i>Marine Pollution Bulletin</i> , 2020 , 159, 111465	6.7	19
77	Radiation crosslinked magnetized wax (PE/Fe ₃ O ₄) nano composite for selective oil adsorption. <i>Composites Communications</i> , 2017 , 3, 18-22	6.7	18
76	Carbon nanotubes versus polyaniline nanoparticles; which transducer offers more opportunities for designing a stable solid contact ion-selective electrode. <i>Journal of Electroanalytical Chemistry</i> , 2015 , 755, 122-126	4.1	18

75	Spectrophotometric Methods for Simultaneous Determination of Sofosbuvir and Ledipasvir (HARVONI Tablet): Comparative Study with Two Generic Products. <i>Journal of AOAC INTERNATIONAL</i> , 2017 , 100, 976-984	1.7	18
74	Smart electrochemical sensing platform for the simultaneous determination of psychotic disorder drugs isopropamide iodide and trifluoperazine hydrochloride. <i>New Journal of Chemistry</i> , 2018 , 42, 9911-9919	3.6	18
73	Radiation induced in-situ cationic polymerization of polystyrene organogel for selective absorption of chlorophenols from petrochemical wastewater. <i>Journal of Environmental Management</i> , 2018 , 210, 307-315	7.9	17
72	Radiation Crosslinking of Polyurethanes: Characterization by FTIR, TGA, SEM, XRD, and Raman Spectroscopy. <i>Journal of Polymers</i> , 2016 , 2016, 1-9		17
71	Attenuated Total Reflectance Fourier Transformation Infrared spectroscopy fingerprinted online monitoring of the kinetics of circulating Butyrylcholinesterase enzyme during metabolism of bambuterol. <i>Analytica Chimica Acta</i> , 2018 , 1005, 70-80	6.6	16
70	Characterization of Starch-based three components of gamma-ray cross-linked hydrogels to be used as a soil conditioner. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2020 , 260, 114645	3.1	16
69	Ion Etching Induced Surface Patterns of Blend Polymer (Poly Ethylene Glycol [Poly Methyl Methacrylate) Irradiated with Gamma Rays. <i>International Polymer Processing</i> , 2017 , 32, 174-182	1	15
68	Low temperature pyrolysis of carboxymethylcellulose. <i>Cellulose</i> , 2016 , 23, 1713-1724	5.5	15
67	Development of aminated poly(glycidyl methacrylate) nanosorbent by green gamma radiation for phenol and malathion contaminated wastewater treatment. <i>Journal of Environmental Chemical Engineering</i> , 2017 , 5, 2325-2336	6.8	14
66	Improvement of In Vitro Dissolution of the Poor Water-Soluble Amlodipine Drug by Solid Dispersion with Irradiated Polyvinylpyrrolidone. <i>ACS Omega</i> , 2020 , 5, 21476-21487	3.9	14
65	Inline potentiometric monitoring of Butyrylcholinesterase activity based on metabolism of bambuterol at the point of care. <i>Sensors and Actuators B: Chemical</i> , 2019 , 285, 216-223	8.5	14
64	Application of Membrane-Selective Electrodes for the Determination of Pioglitazone Hydrochloride in the Presence of Its Acid Degradant or Metformin Hydrochloride in Tablets and Plasma. <i>Analytical Letters</i> , 2009 , 42, 123-140	2.2	13
63	Radiation Synthesis of Rapidly Self-Healing Hydrogel Derived from Poly(acrylic acid) with Good Mechanical Strength. <i>Macromolecular Chemistry and Physics</i> , 2020 , 221, 2000218	2.6	13
62	An overview of methods for production and detection of silver nanoparticles, with emphasis on their fate and toxicological effects on human, soil, and aquatic environment. <i>Nanotechnology Reviews</i> , 2021 , 10, 954-977	6.3	13
61	Development of membrane electrodes for the selective determination of hyoscine butylbromide. <i>Talanta</i> , 2007 , 72, 675-81	6.2	12
60	Application of new membrane selective electrodes for the determination of drotaverine hydrochloride in tablets and plasma. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2006 , 41, 720-4	3.5	12
59	Stability-Indicating HPLC and RP-TLC Determination of Cefpirome Sulfate with Kinetic Study. <i>Chromatographia</i> , 2013 , 76, 1141-1151	2.1	11
58	Radiation Synthesis and Magnetic Property Investigations of the Graft Copolymer Poly(Ethylene-g-Acrylic Acid)/Fe ₃ O ₄ Film. <i>Journal of Superconductivity and Novel Magnetism</i> , 2017 , 30, 401-406	1.5	11

57	Characterization and Potential Application of Electro-Active Acrylamido-2-methyl Propane Sulfonic Acid/Acrylic Acid Copolymer Prepared by Ionizing Radiation. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2007 , 44, 91-98	2.2	11
56	Tailored functionalized polymer nanoparticles using gamma radiation for selected adsorption of barium and strontium in oilfield wastewater. <i>Arabian Journal of Chemistry</i> , 2020 , 13, 3762-3774	5.9	11
55	Controlling radiation degradation of a CMC solution to optimize the swelling of acrylic acid hydrogel as water and fertilizer carriers. <i>Polymers for Advanced Technologies</i> , 2021 , 32, 514-524	3.2	11
54	Radiation Preparation of Conducting Nanocomposite Membrane Based on (Copper/Polyacrylic Acid/Poly Vinyl Alcohol) for Rapid Colorimetric Sensor of Mercury and Silver Ions. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2018 , 28, 2297-2305	3.2	11
53	Gamma radiation synthesis of a novel amphiphilic terpolymer hydrogel pH-responsive based chitosan for colon cancer drug delivery. <i>Carbohydrate Polymers</i> , 2021 , 263, 117975	10.3	11
52	Radiation-induced nucleation and pH-controlled nanostructure shape of polyaniline dispersed in DMF. <i>Polymer Bulletin</i> , 2018 , 75, 5477-5492	2.4	10
51	Application of normal fluorescence and stability-indicating derivative synchronous fluorescence spectroscopy for the determination of gliquidone in presence of its fluorescent alkaline degradation product. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018 , 188, 619-625	4.4	10
50	Successive ratio subtraction coupled with constant multiplication spectrophotometric method for determination of hydroquinone in complex mixture with its degradation products, tretinoin and methyl paraben. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016 , 157, 116-123	4.4	10
49	Silver rubber-hydrogel nanocomposite as pH-sensitive prepared by gamma radiation: Part I. <i>Cogent Chemistry</i> , 2017 , 3, 1328770	2.5	10
48	Semi-permeable membrane fabricated from organoclay/PS/EVA irradiated by γ -rays for water purification from dyes. <i>Journal of Materials Research and Technology</i> , 2019 , 8, 6134-6145	5.5	9
47	In-situ core-shell polymerization of magnetic polymer nanocomposite (PAAc/Fe ₃ O ₄) particles via gamma radiation. <i>Nanocomposites</i> , 2017 , 3, 42-46	3.4	8
46	Ionizing Radiation-Induced Polymerization 2018 ,		8
45	Impact of Silver Nanoparticles Synthesized by Irradiated Polyvinylpyrrolidone on Spodoptera littoralis Nucleopolyhedrosis Virus Activity. <i>Journal of Polymers and the Environment</i> , 2021 , 29, 3364-3374	4.5	8
44	Nanocomposite of cosubstituted carbonated hydroxyapatite fabricated inside Poly(sodium hyaluronate-acrylamide) hydrogel template prepared by gamma radiation for osteoblast cell regeneration. <i>Radiation Physics and Chemistry</i> , 2021 , 183, 109408	2.5	8
43	Stability-indicating chromatographic determination of hydroquinone in combination with tretinoin and fluocinolone acetonide in pharmaceutical formulations with a photodegradation kinetic study. <i>RSC Advances</i> , 2015 , 5, 43178-43194	3.7	7
42	Quantitative determination of zopiclone and its impurity by four different spectrophotometric methods. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 137, 617-24	4.4	7
41	Synthesis and characterization of conjugated and nanostructured poly(propargyl alcohol) polymers. <i>Journal of Polymer Research</i> , 2018 , 25, 1	2.7	7
40	Sulfonated gamma-irradiated blend poly(styrene/ethylene-vinyl acetate) membrane and their electrical properties. <i>Advances in Polymer Technology</i> , 2018 , 37, 1249-1255	1.9	7

39	Least-Squares Regression and Spectral Residual Augmented Classical Least-Squares Chemometric Models for Stability-Indicating Analysis of Agomelatine and Its Degradation Products: A Comparative Study. <i>Journal of AOAC INTERNATIONAL</i> , 2016 , 99, 386-95	1.7	7
38	Stability indicating spectrophotometric methods for quantitative determination of carbamazepine and its degradation product, iminostilbene, in pure form and pharmaceutical formulations. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019 , 214, 21-31	4.4	6
37	Chromatographic Determination of Aminoacridine Hydrochloride, Lidocaine Hydrochloride and Lidocaine Toxic Impurity in Oral Gel. <i>Journal of Chromatographic Science</i> , 2016 , 54, 492-9	1.4	6
36	Radiation synthesis of porous calcium silicate aerogel derived from polyacrylamide hydrogel as thermal insulator. <i>Journal of Sol-Gel Science and Technology</i> , 2021 , 98, 593-604	2.3	6
35	Novel ratio difference at coabsorptive point spectrophotometric method for determination of components with wide variation in their absorptivities. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016 , 152, 480-4	4.4	5
34	ISE-potentiometric sensor for the determination of zolmitriptan: applications in plasma, pharmaceutical formulation and in vitro release profile. <i>New Journal of Chemistry</i> , 2018 , 42, 15263-15269	3.6	5
33	Radiation crosslinking of acrylic acid/acrylonitrile/silver nitrate hydrogel as a sensitive glucose nanosensor. <i>Polymer Bulletin</i> , 2019 , 76, 6245-6255	2.4	5
32	Effect of sulfonated groups on the proton and methanol transport behavior of irradiated PS/PEVA membrane. <i>International Journal of Plastics Technology</i> , 2017 , 21, 130-143	2.7	4
31	HPTLC Method for Quantitative Determination of Zopiclone and Its Impurity. <i>Journal of Chromatographic Science</i> , 2015 , 53, 1395-9	1.4	4
30	Surface decontamination in fuel manufacture plants by chelating solution of nanoparticles. <i>Radiochimica Acta</i> , 2018 , 106, 383-392	1.9	4
29	Stability-Indicating HPLC and HPTLC Methods for Determination of Agomelatine and its Degradation Products. <i>Journal of Chromatographic Science</i> , 2018 , 56, 317-326	1.4	4
28	Application of Membrane-Selective Electrodes for the Determination of Naftidrofuryl Oxalate in the Presence of Its Alkaline Degradant in Tablets and Plasma. <i>Portugaliae Electrochimica Acta</i> , 2012 , 30, 177-188	2.4	4
27	Potential of carbon particle reinforced polypropylene formed in-situ through the pyrolysis of carboxymethylcellulose. <i>Composites Communications</i> , 2016 , 1, 6-14	6.7	4
26	Functionalized of wax-magnetic nanocomposite (Fe ₃ O ₄ /PE) pellets by radiation grafting of PAAc for safe dye removal. <i>Cogent Chemistry</i> , 2017 , 3, 1363341	2.5	3
25	Superabsorbent 2018 ,		3
24	Green synthesis of nanoparticles for varied applications: Green renewable resources and energy-efficient synthetic routes. <i>Nanotechnology Reviews</i> , 2022 , 11, 731-759	6.3	3
23	Influence of Gamma Irradiation on the Change of the Characterization of Elastomeric Polyurethane. <i>Advanced Science, Engineering and Medicine</i> , 2016 , 8, 736-739	0.6	3
22	Insights on magnetic spinel ferrites for targeted drug delivery and hyperthermia applications. <i>Nanotechnology Reviews</i> , 2022 , 11, 372-413	6.3	3

21	Determination of Aliskiren Hemifumarate and Amlodipine Besylate in their combined Dosage form by Different Spectrophotometric Methods. <i>Current Pharmaceutical Analysis</i> , 2016 , 12, 391-398	0.6	3
20	Improving Impact of Poly(Starch/Acrylic Acid) Superabsorbent Hydrogel on Growth and Biochemical Traits of Sunflower Under Drought Stress. <i>Journal of Polymers and the Environment</i> , 1	4.5	2
19	Synthesis of poly (vinylpyrrolidone)/Fe ₃ O ₄ @SiO ₂ nanoporous catalyst by E-rays and evaluation their sono-photo-Fenton degradation of toluidine blue under magnetic field. <i>Applied Organometallic Chemistry</i> , 2021 , 35, e6388	3.1	2
18	Radiation synthesis of urea/hydrogel core shells coated with three different natural oils via a layer-by-layer approach: An investigation of their slow release and effects on plant growth-promoting rhizobacteria. <i>Progress in Organic Coatings</i> , 2021 , 151, 106022	4.8	2
17	Radiation synthesis of pH-sensitive 2-(dimethylamino)ethyl methacrylate/ polyethylene oxide/ZnS nanocomposite hydrogel membrane for wound dressing application. <i>Journal of Drug Delivery Science and Technology</i> , 2022 , 73, 103399	4.5	2
16	TLC-Densitometric and RP-HPLC Methods for Simultaneous Determination of Dexamethasone and Chlorpheniramine Maleate in the Presence of Methylparaben and Propylparaben. <i>Journal of AOAC INTERNATIONAL</i> , 2017 , 100, 51-58	1.7	1
15	Radiation Synthesis of Organostarch as Fluorescence Label. <i>Asian Journal of Chemistry</i> , 2020 , 32, 1799-1805	1.8	1
14	Pellets of magnetized polyethylene (Fe ₃ O ₄ /PE) wax from gamma irradiated polyethylene: synthesis and characterization. <i>International Journal of Plastics Technology</i> , 2018 , 22, 1-9	2.7	1
13	Radiation synthesis of acrylic acid onto poly(tetraflouroethylene-perflourovinyl ether) film: Chemical modifications and electrical conductivity. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2017 , 54, 598-604	2.2	1
12	Comparative stability-indicating chromatographic methods for determination of 4-hexylresorcinol in pharmaceutical formulation and shrimps. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017 , 145, 386-398	3.5	1
11	Modeling of A. C. electrical properties of humid sand and effect of water content 2000 ,		1
10	Proton-conducting polymers derived from radiation grafting and sulphonation of poly(tetraflouroethylene-perflourovinyl ether) film with three rare-earth elements. <i>Macromolecular Research</i> , 2017 , 25, 924-930	1.9	1
9	The application of natural polymer-based hydrogels for agriculture 2020 , 329-356		1
8	Greenness assessment as per Eco-scale and AMVI metrics for the chromatographic assay of selected drugs in a semisolid dosage form and in tissues. <i>Chemical Papers</i> , 2019 , 73, 683-691	1.9	1
7	Study of the corrosion-inhibiting activity of the green materials of the Posidonia oceanica leaves ethanolic extract based on PVP in corrosive media (1 M of HCl). <i>Green Processing and Synthesis</i> , 2021 , 10, 555-568	3.9	1
6	Green materials (DL-methionine/abiatic acid)-based epoxy acrylate as promising antimicrobial and antibiofilm agents, and corrosion inhibitors for electron beam curable steel coating in different corrosive media. <i>Progress in Organic Coatings</i> , 2022 , 166, 106824	4.8	1
5	Characterization and distribution of plastic particles along Alexandria beaches, Mediterranean Coast of Egypt, using microscopy and thermal analysis techniques.. <i>Science of the Total Environment</i> , 2022 , 155363	10.2	1
4	Photocatalytic TiO ₂ Embedded on PET-g-PAAc Fabric by Sono-gamma Irradiation Technique. <i>Asian Journal of Chemistry</i> , 2020 , 32, 349-353	0.4	0

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| 3 | Simulating the electric field distribution in medium-voltage cables of cross-linked polyethylene/Cu nanocomposites irradiated by E-beam with reference to the XLPE market. <i>Plastics, Rubber and Composites</i> ,1-12 | 1.5 | 0 |
| 2 | In-situ pyrolysis: A novel technique for the dispersion of carbon particles in thermoplastics. <i>Journal of Reinforced Plastics and Composites</i> , 2017 , 36, 414-421 | 2.9 | |
| 1 | Aspects of the physiochemical properties of SARS-CoV-2 to prevent S-protein receptor binding using Arabic gum. <i>Green Processing and Synthesis</i> , 2022 , 11, 150-163 | 3.9 | |