

# Mohamed M Ghobashy

## List of Publications by Year in Descending Order

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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	Aspects of the physiochemical properties of SARS-CoV-2 to prevent S-protein receptor binding using Arabic gum. <i>Green Processing and Synthesis</i> , <b>2022</b> , 11, 150-163	3.9	
91	Green synthesis of nanoparticles for varied applications: Green renewable resources and energy-efficient synthetic routes. <i>Nanotechnology Reviews</i> , <b>2022</b> , 11, 731-759	6.3	3
90	Insights on magnetic spinel ferrites for targeted drug delivery and hyperthermia applications. <i>Nanotechnology Reviews</i> , <b>2022</b> , 11, 372-413	6.3	3
89	Green materials (DL-methionine/abietic 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> , <b>2022</b> , 166, 106824	4.8	1
88	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> , <b>2022</b> , 155363	10.2	1
87	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> , <b>2022</b> , 73, 103399	4.5	2
86	Impact of Silver Nanoparticles Synthesized by Irradiated Polyvinylpyrrolidone on Spodoptera littoralis Nucleopolyhedrosis Virus Activity. <i>Journal of Polymers and the Environment</i> , <b>2021</b> , 29, 3364-3374	4.5	8
85	Radiation synthesis of porous calcium silicate aerogel derived from polyacrylamide hydrogel as thermal insulator. <i>Journal of Sol-Gel Science and Technology</i> , <b>2021</b> , 98, 593-604	2.3	6
84	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> , <b>2021</b> , 183, 109408	2.5	8
83	Synthesis of poly (vinylpyrrolidone)/Fe3O4@SiO2 nanoporous catalyst by E-rays and evaluation their sono-photo-Fenton degradation of toluidine blue under magnetic field. <i>Applied Organometallic Chemistry</i> , <b>2021</b> , 35, e6388	3.1	2
82	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> , <b>2021</b> , 32, 514-524	3.2	11
81	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> , <b>2021</b> , 151, 106022	4.8	2
80	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> , <b>2021</b> , 10, 555-568	3.9	1
79	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> , <b>2021</b> , 10, 954-977	6.3	13
78	Gamma radiation synthesis of a novel amphiphilic terpolymer hydrogel pH-responsive based chitosan for colon cancer drug delivery. <i>Carbohydrate Polymers</i> , <b>2021</b> , 263, 117975	10.3	11
77	Radiation Synthesis of Organostarch as Fluorescence Label. <i>Asian Journal of Chemistry</i> , <b>2020</b> , 32, 1799-1805	10.5	1
76	Photocatalytic TiO2 Embedded on PET-g-PAAc Fabric by Sono-gamma Irradiation Technique. <i>Asian Journal of Chemistry</i> , <b>2020</b> , 32, 349-353	0.4	0

75	The application of natural polymer-based hydrogels for agriculture <b>2020</b> , 329-356		1
74	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> , <b>2020</b> , 159, 111465	6.7	19
73	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> , <b>2020</b> , 260, 114645	3.1	16
72	Improvement of In Vitro Dissolution of the Poor Water-Soluble Amlodipine Drug by Solid Dispersion with Irradiated Polyvinylpyrrolidone. <i>ACS Omega</i> , <b>2020</b> , 5, 21476-21487	3.9	14
71	Radiation Synthesis of Rapidly Self-Healing Hydrogel Derived from Poly(acrylic acid) with Good Mechanical Strength. <i>Macromolecular Chemistry and Physics</i> , <b>2020</b> , 221, 2000218	2.6	13
70	Tailored functionalized polymer nanoparticles using gamma radiation for selected adsorption of barium and strontium in oilfield wastewater. <i>Arabian Journal of Chemistry</i> , <b>2020</b> , 13, 3762-3774	5.9	11
69	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> , <b>2019</b> , 214, 21-31	4.4	6
68	Identification of marine microplastics in Eastern Harbor, Mediterranean Coast of Egypt, using differential scanning calorimetry. <i>Marine Pollution Bulletin</i> , <b>2019</b> , 142, 494-503	6.7	30
67	Semi-permeable membrane fabricated from organoclay/PS/EVA irradiated by $\gamma$ -rays for water purification from dyes. <i>Journal of Materials Research and Technology</i> , <b>2019</b> , 8, 6134-6145	5.5	9
66	Radiation crosslinking of acrylic acid/acrylonitrile/silver nitrate hydrogel as a sensitive glucose nanosensor. <i>Polymer Bulletin</i> , <b>2019</b> , 76, 6245-6255	2.4	5
65	Inline potentiometric monitoring of Butyrylcholinesterase activity based on metabolism of bambuterol at the point of care. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 285, 216-223	8.5	14
64	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> , <b>2019</b> , 73, 683-691	1.9	1
63	Radiation-induced nucleation and pH-controlled nanostructure shape of polyaniline dispersed in DMF. <i>Polymer Bulletin</i> , <b>2018</b> , 75, 5477-5492	2.4	10
62	Radiation induced in-situ cationic polymerization of polystyrene organogel for selective absorption of chlorophenols from petrochemical wastewater. <i>Journal of Environmental Management</i> , <b>2018</b> , 210, 307-315	7.9	17
61	Surface decontamination in fuel manufacture plants by chelating solution of nanoparticles. <i>Radiochimica Acta</i> , <b>2018</b> , 106, 383-392	1.9	4
60	Stability-Indicating HPLC and HPTLC Methods for Determination of Agomelatine and its Degradation Products. <i>Journal of Chromatographic Science</i> , <b>2018</b> , 56, 317-326	1.4	4
59	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> , <b>2018</b> , 1005, 70-80	6.6	16
58	Smart electrochemical sensing platform for the simultaneous determination of psychotic disorder drugs isopropamide iodide and trifluoperazine hydrochloride. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 9911-9919	3.6	18

57	Synthesis and characterization of conjugated and nanostructured poly(propargyl alcohol) polymers. <i>Journal of Polymer Research</i> , <b>2018</b> , 25, 1	2.7	7
56	Pellets of magnetized polyethylene (Fe <sub>3</sub> O <sub>4</sub> /PE) wax from gamma irradiated polyethylene: synthesis and characterization. <i>International Journal of Plastics Technology</i> , <b>2018</b> , 22, 1-9	2.7	1
55	Sulfonated gamma-irradiated blend poly(styrene/ethylene-vinyl acetate) membrane and their electrical properties. <i>Advances in Polymer Technology</i> , <b>2018</b> , 37, 1249-1255	1.9	7
54	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> , <b>2018</b> , 188, 619-625	4.4	10
53	pH stimuli-responsive poly(acrylamide-co -sodium alginate) hydrogels prepared by $\Gamma$ radiation for improved compressive strength of concrete. <i>Advances in Polymer Technology</i> , <b>2018</b> , 37, 2123-2133	1.9	24
52	Radiation Crosslinking of Modifying Super Absorbent (Polyacrylamide/Gelatin) Hydrogel as Fertilizers Carrier and Soil Conditioner. <i>Journal of Polymers and the Environment</i> , <b>2018</b> , 26, 3981-3994	4.5	20
51	ISE-potentiometric sensor for the determination of zolmitriptan: applications in plasma, pharmaceutical formulation and in vitro release profile. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 15263-15269	3.6	5
50	Ionizing Radiation-Induced Polymerization <b>2018</b> ,		8
49	Superabsorbent <b>2018</b> ,		3
48	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> , <b>2018</b> , 28, 2297-2305	3.2	11
47	Phosphorylation of chitosan/HEMA interpenetrating polymer network prepared by $\Gamma$ radiation for metal ions removal from aqueous solutions. <i>Carbohydrate Polymers</i> , <b>2017</b> , 162, 16-27	10.3	50
46	pH-sensitive wax emulsion copolymerization with acrylamide hydrogel using gamma irradiation for dye removal. <i>Radiation Physics and Chemistry</i> , <b>2017</b> , 134, 47-55	2.5	44
45	Combined ultrasonic and gamma-irradiation to prepare TiO <sub>2</sub> @PET-g-PAAC fabric composite for self-cleaning application. <i>Ultrasonics Sonochemistry</i> , <b>2017</b> , 37, 529-535	8.9	36
44	Controlled release fertilizers using superabsorbent hydrogel prepared by gamma radiation. <i>Radiochimica Acta</i> , <b>2017</b> , 105,	1.9	26
43	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> , <b>2017</b> , 5, 2325-2336	6.8	14
42	Effect of sulfonated groups on the proton and methanol transport behavior of irradiated PS/PEVA membrane. <i>International Journal of Plastics Technology</i> , <b>2017</b> , 21, 130-143	2.7	4
41	In-situ core-shell polymerization of magnetic polymer nanocomposite (PAAC/Fe <sub>3</sub> O <sub>4</sub> ) particles via gamma radiation. <i>Nanocomposites</i> , <b>2017</b> , 3, 42-46	3.4	8
40	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> , <b>2017</b> , 100, 51-58	1.7	1

39	Radiation crosslinked magnetized wax (PE/Fe <sub>3</sub> O <sub>4</sub> ) nano composite for selective oil adsorption. <i>Composites Communications</i> , <b>2017</b> , 3, 18-22	6.7	18
38	Functionalized of wax-magnetic nanocomposite (Fe <sub>3</sub> O <sub>4</sub> /PE) pellets by radiation grafting of PAAc for safe dye removal. <i>Cogent Chemistry</i> , <b>2017</b> , 3, 1363341	2.5	3
37	Spectrophotometric Methods for Simultaneous Determination of Sofosbuvir and Ledipasvir (HARVONI Tablet): Comparative Study with Two Generic Products. <i>Journal of AOAC INTERNATIONAL</i> , <b>2017</b> , 100, 976-984	1.7	18
36	Radiation synthesis of acrylic acid onto poly(tetrafluoroethylene-perfluorovinyl ether) film: Chemical modifications and electrical conductivity. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , <b>2017</b> , 54, 598-604	2.2	1
35	Silver rubber-hydrogel nanocomposite as pH-sensitive prepared by gamma radiation: Part I. <i>Cogent Chemistry</i> , <b>2017</b> , 3, 1328770	2.5	10
34	Comparative stability-indicating chromatographic methods for determination of 4-hexylresorcinol in pharmaceutical formulation and shrimps. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2017</b> , 145, 386-398	3.5	1
33	In-situ pyrolysis: A novel technique for the dispersion of carbon particles in thermoplastics. <i>Journal of Reinforced Plastics and Composites</i> , <b>2017</b> , 36, 414-421	2.9	
32	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> , <b>2017</b> , 25, 343-348	4.5	22
31	Radiation Synthesis and Magnetic Property Investigations of the Graft Copolymer Poly(Ethylene-g-Acrylic Acid)/Fe <sub>3</sub> O <sub>4</sub> Film. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2017</b> , 30, 401-406	1.5	11
30	Ion Etching Induced Surface Patterns of Blend Polymer (Poly Ethylene Glycol [Poly Methyl Methacrylate) Irradiated with Gamma Rays. <i>International Polymer Processing</i> , <b>2017</b> , 32, 174-182	1	15
29	Proton-conducting polymers derived from radiation grafting and sulphonation of poly(tetrafluoroethylene-perfluorovinyl ether) film with three rare-earth elements. <i>Macromolecular Research</i> , <b>2017</b> , 25, 924-930	1.9	1
28	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> , <b>2016</b> , 152, 480-4	4.4	5
27	Chromatographic Determination of Aminoacridine Hydrochloride, Lidocaine Hydrochloride and Lidocaine Toxic Impurity in Oral Gel. <i>Journal of Chromatographic Science</i> , <b>2016</b> , 54, 492-9	1.4	6
26	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> , <b>2016</b> , 157, 116-123	4.4	10
25	Influence of Gamma Irradiation on the Change of the Characterization of Elastomeric Polyurethane. <i>Advanced Science, Engineering and Medicine</i> , <b>2016</b> , 8, 736-739	0.6	3
24	Determination of Aliskiren Hemifumarate and Amlodipine Besylate in their combined Dosage Form by Different Spectrophotometric Methods. <i>Current Pharmaceutical Analysis</i> , <b>2016</b> , 12, 391-398	0.6	3
23	Radiation Crosslinking of Polyurethanes: Characterization by FTIR, TGA, SEM, XRD, and Raman Spectroscopy. <i>Journal of Polymers</i> , <b>2016</b> , 2016, 1-9		17
22	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> , <b>2016</b> , 99, 386-95	1.7	7

21	Low temperature pyrolysis of carboxymethylcellulose. <i>Cellulose</i> , <b>2016</b> , 23, 1713-1724	5.5	15
20	Potential of carbon particle reinforced polypropylene formed in-situ through the pyrolysis of carboxymethylcellulose. <i>Composites Communications</i> , <b>2016</b> , 1, 6-14	6.7	4
19	HPTLC Method for Quantitative Determination of Zopiclone and Its Impurity. <i>Journal of Chromatographic Science</i> , <b>2015</b> , 53, 1395-9	1.4	4
18	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> , <b>2015</b> , 755, 122-126	4.1	18
17	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> , <b>2015</b> , 5, 43178-43194	3.7	7
16	Strategy for Fabrication of Stable Tramadol Solid-Contact Ion-Selective Potentiometric Sensor Based on Polyaniline Nanoparticles. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, H1-H5	3.9	23
15	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> , <b>2015</b> , 208, 14-21	8.5	43
14	Quantitative determination of zopiclone and its impurity by four different spectrophotometric methods. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2015</b> , 137, 617-24	4.4	7
13	Stability-Indicating HPLC and RP-TLC Determination of Cefpirome Sulfate with Kinetic Study. <i>Chromatographia</i> , <b>2013</b> , 76, 1141-1151	2.1	11
12	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> , <b>2012</b> , 30, 177-188	2.4	4
11	Spectrophotometric methods for the simultaneous determination of binary mixture of metronidazole and diloxanide furoate without prior separation. <i>Journal of Advanced Research</i> , <b>2010</b> , 1, 323-329	13	43
10	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> , <b>2009</b> , 1, 339-49	3.5	24
9	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> , <b>2009</b> , 42, 123-140	2.2	13
8	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> , <b>2007</b> , 44, 91-98	2.2	11
7	Development of membrane electrodes for the selective determination of hyoscine butylbromide. <i>Talanta</i> , <b>2007</b> , 72, 675-81	6.2	12
6	Application of new membrane selective electrodes for the determination of drotaverine hydrochloride in tablets and plasma. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2006</b> , 41, 720-4	3.5	12
5	Synthesis and electrical response of acrylic acid/vinyl sulfonic acid hydrogels prepared by Irradiation. <i>Radiation Physics and Chemistry</i> , <b>2006</b> , 75, 1041-1046	2.5	45
4	Stability-indicating spectrophotometric and densitometric methods for determination of aceclofenac. <i>Drug Development and Industrial Pharmacy</i> , <b>2002</b> , 28, 571-82	3.6	23

3	Modeling of A. C. electrical properties of humid sand and effect of water content <b>2000</b> ,		1
2	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
1	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