

Curriculum Vitae

Personal information

Name	: Tamer Mahmoud Tamer AbdeIRazik
Address(es)	: 7 A Hassan Allam Building, New Borg El Arab, 21934, Alexandria, Egypt.
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Date of birth	: 7 Aug 1982 Nationality : Egyptian

Current position	Organization: City of Scientific Research and Technological Applications (SRTA-City) Position held: Associated Professor (Researcher) Scopus ID: 55420148800 ORCID ID: 0000-0002-6203-7488
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Academic Records	Institution: Faculty of Science – Ain Shams University Address: Ain Khalifa El-Maamonst, Abbasiya sq., Cairo, Egypt Degree: Bsc Field: Special Chemistry Graduate date: 7/2003
	Institution: Faculty of Science – Ain Shams University address: Ain Khalifa El-Maamonst, Abbasiya sq., Cairo, Egypt The degree: Msc Graduate date: 8/2008 Major Field: Organic Chemistry Minor Field: Polymer Chemistry
	Institution: Faculty of Science – Ain Shams University address: Ain Khalifa El-Maamonst, Abbasiya sq., Cairo, Egypt The degree: PhD Graduate date: 11/2012 Major Field: Organic Chemistry Minor Field: Polymer Chemistry

Work History	Organization: National Organization for Drug Control and Research (NODCAR) Address: 51 Wezaret El-Zeraast. Dokki, Giza, Egypt. Position held: Assistant Researcher Starting date: 4/2009 End date: 6/2010 Contact person: Prof. Dr. Laila Ibrahim Ibrahim E-mail: likandil@gmail.com
	Organization: City of Scientific Research and Technological Applications (SRTA-City) Address: Universities and Research Centers District, New Borg Elarab, Alexandria, Egypt. Position held: Researcher Assistant Starting date: 6/2010 End date: 12/2012 Contact person: Prof. Dr/ Mohamed Samir Mohyeldine email: mohyeldinmohamed@yahoo.com Phone: + 20105318399
	Organization: City of Scientific Research and Technological applications (SRTA-City) Institute: Advanced Technology and New Materials Research Institute Address: Universities and Research Centers District, New Borg Elarab, Alexandria, Egypt. Position held: Assistant Professor Starting date: 12/2012 End date: 5/2018
	Organization: City of Scientific Research and Technological applications (SRTA-City) Institute: Advanced Technology and New Materials Research Institute Address: Universities and Research Centers District, New Borg Elarab, Alexandria, Egypt. Position held: Associate Professor Starting date: 5/2018 End date: till now

Scientific activity	53 papers 13 Book chapters 1 patent
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Academic supervision	Msc advisor: 9 students Ph.D. advisor: 7 students
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Fellowships	Organization: Slovak Academy of Sciences Institute: Institute of Experimental Pharmacology and Toxicology Address: Dubravskacesta 9, Bratislava, Slovakia Postal code: SK-841 04 Position held: Postdoc fellowship Starting date: 3/2013 End date: 11/2013 Supervisor contact name: Ladislav Šoltés, MSc., PhD., DSc. email: exfasolt@savba.sk
	Organization: University of Queensland, School of Chemistry and Molecular Biosciences Address: St Lucia QLD,Brisbane, Australia. Postal code: 4072 Position held: Postdoc fellowship Starting date: 1/2015 End date: 6/2015 Supervisor contact name: Asc. Prof. Lisbeth Grondahl email: l.grondahl@uq.edu.au
	Organization: Slovak Academy of Sciences Institute: Institute of Experimental Pharmacology and Toxicology Address: Dubravskacesta 9, Bratislava, Slovakia Postal code: SK-841 04 Position held: Postdoc fellowship Starting date: 4/2016 End date: 8/2016 Supervisor contact name: Ladislav Šoltés, MSc., PhD., DSc. email: exfasolt@savba.sk
	Organization: Shenyang normal university, Faculty: College of Grain Science and Technology. Address: North Huanghe Street, Huanggu District, Shenyang, China Postal code: 110034 Position held: Postdoc fellowship Starting date: 8/2017 End date: 8/2018 Supervisor contact name: Prof. Zhi-gang XIAO email: zhigangx@sina.com
	Organization: Chinese Academy of Science, Faculty: Changchun Institute of Applied Chemistry (CIAC). State Key Laboratory of Polymer Physics and Chemistry Address: 5625 Renmin Street Changchun, Jilin, 130022 P. R. China Position held: Postdoc fellowship Starting date: 6/2019 End date: 6/2021 Supervisor contact name: Prof. SU Zhaohui email: zhsu@ciac.ac.cn

Research Projects and Grant funds	Project Title	Funding Organization	Project Duration	Role In Project
	Development of polymeric wound dressing membranes for bleeding disorder patients	Science & Technology Development Fund (STDF)	2018	Principal Investigator (PI)
	Development of polymeric soil conditioners for water irrigation and fertilizers release management in sandy soil.	Science & Technology Development Fund (STDF)	2017-2018	CO-PI
	Development of antimicrobial polymeric membranes based on gelatine for wound healing management	(STDF), Research Support & Technology Development Grant (RSTDG)	2016-2017	Principal Investigator (PI)
	New phosphorylated alginate-chitosan polyelectrolyte complex for bone regeneration and drug delivery systems; Egyptian-Bulgarian project	Egyptian Academy of science	2013-2015	Member
	Development of polymer electrolyte membranes for the direct methanol fuel cell application.	Science & Technology Development Fund (STDF)	2013-2014	Member

- Interest research area**

Polymeric Materials for medical, pharmaceutical, environmental, and water purification applications.

List of publications

Journal papers

2020

1. Ping-Ping Wang, Zhi-Gang Luo, Chun-Chen, Xiong-Fu, **Tamer Mahmoud Tamer**. **Effects of octenyl succinic anhydride groups distribution on the storage and shear stability of Pickering emulsions formulated by modified rice starch**. *Carbohydrate Polymers*. 228, (2020) 115389.

2019

2. M.S. MohyEldin, H.A. Farag, **T.M. Tamer**, A.H. Konsowa, M.H. Gouda. **Development of novel iota carrageenan-g-polyvinyl alcohol polyelectrolyte membranes for direct methanol fuel cell application**. *Polym. Bull.* (2019). <https://doi.org/10.1007/s00289-019-02995-6>
3. Omer, A.M., Khalifa, R.E., **Tamer, T.M.**, M. Elnouby, A.M. Hamed, Y.A. Ammar, A.A. Ali Salem, W.M., Mohy Eldin, M.S. **Fabrication of a novel low-cost superoleophilic nonanyl chitosan-poly (butyl acrylate) grafted copolymer for the adsorptive removal of crude oil spills**. *International Journal of Biological Macromolecules* 140 (2019) 588–599.
4. Lv, R., Qi, L., Zou, Y., Zou, J., Luo, Z., Shao, P., **Tamer, T.M.** **Preparation and structural properties of amylose complexes with quercetin and their preliminary evaluation in delivery application**. *International Journal of Food Properties*. 22:1, (2019), 1445-1462.
5. G. Ren, C. Clancy, **T. M. Tamer**, B. Schaller, G. M. Walker, M. N. Collins. **Cinnamyl O-amine functionalized chitosan as a new excipient in direct compressed tablets with improved drug delivery**. *International Journal of Biological Macromolecules*. (2019) DOI: 10.1016/j.ijbiomac.2019.08.265.
6. **T.M. Tamer**, W.M. Abou-Taleb, G.D. Roston, M.S. Mohyeldin, A.M. Omer, E.F. Shehata. **Characterization and Evaluation of Iron Oxide Nanoparticles Prepared Using Hydrogel Template Based on Phosphonate Alginate**. *Nanoscience & Nanotechnology-Asia*, Volume 9 , Issue 2 , (2019) DOI : 10.2174/2210681207666170907154359
7. Khalifa, R.E., Omer, A.M., **Tamer, T.M.**, Salem, W.M., Mohy Eldin, M.S. **Removal of methylene blue dye from synthetic aqueous solutions using novel phosphonate cellulose acetate membranes: Adsorption kinetic, equilibrium, and thermodynamic studies**. *Desalination and Water Treatment*. (2019), 144, pp. 272-285.
8. A.M. Omer, Y.A. Ammar, Gmail Ahmed Mohamed, Y.M. Abd elbaky, **T.M. Tamer**. **Preparation of Isatin/chitosan schiff base as novel antibacterial biomaterials**. *Egyptian Journal of Chemistry*.(2019), (accepted)
9. Kenawy, E.R., Abdel-Hay, F.I., **Tamer, T.M.**, Abo-Elghit Ibrahim, E.M., Mohy Eldin, M.S. **Antimicrobial activity of novel modified aminated chitosan with aromatic esters**. 2019 *Polymer Bulletin*. DOI: 10.1007/s00289-019-02816-w.
10. Khalifa, R.E., Omer, A.M., **Tamer, T.M.**, Ali, A.A., Ammar, Y.A., Eldin, M.S.M. **Efficient eco-friendly crude oil adsorptive chitosan derivatives: Kinetics, equilibrium and thermodynamic studies**. *Desalination and Water Treatment*. (2019), 159, 269-281.
11. Hassan, M.A., **Tamer, T.M.**, Rageh, A.A., Abou-Zeid, A. M., Abd El-Zaher, E.H.F., Kenawy, E.-R.. **Insight into multidrug-resistant microorganisms from microbial infected diabetic foot ulcers**. *Diabetes and Metabolic Syndrome: Clinical Research and Reviews*.(2019),13 (2), 1261-1270.
12. El Fawal, G.F., Omer, A.M., **Tamer, T.M.** **Evaluation of antimicrobial and antioxidant activities for cellulose acetate films incorporated with Rosemary and Aloe Vera essential oils**. *Journal of Food Science and Technology*.(2019), doi.:10.1007/s13197-019-03642-8.
13. M.A. Taher, A.M. Omer, A.M. Hamed, A.M. Ali, **T.M. Tamer**, M.S. Mohy Eldin. **Development of smart alginate/chitosan grafted microcapsules for colon site-specific drug delivery**. *Egyptian Journal of Chemistry*. (2019), doi : 10.21608/ejchem.2019.6716.1562.

2018

14. A. Shebl, A.M. Omer, **T.M. Tamer**. **Adsorption of cationic dye using novel O-amine functionalized chitosan Schiff base derivatives: isotherm and kinetic studies**.*Desalination and Water Treatment*.(2018),130, 132–141.

15. Mohamed A. Hassan, Ahmed M. Omer, Eman Abbas, Walid M.A. Baset, **Tamer M. Tamer**. Preparation, physicochemical characterization and antimicrobial activities of novel two phenolic chitosan Schiff base derivatives. *Scientific Reports*.(2018),8(1):11416DOI: 10.1038/s41598-018-29650-w.
16. **T.M. Tamer**, K. Valachová, M.A. Hassan, A.M. Omer, M. El-Shafeey, M.S. Mohy Eldina, L.Šoltés. Chitosan/hyaluronan/edaravone membranes for anti-inflammatory wound dressing: In vitro and in vivo evaluation studies. *Materials Science and Engineering: C*.(2018),90 (1), 227–235.
17. **T.M. Tamer**, W.M. Abou-Taleb, G.D. Roston, M.S Mohyeldin, A.M Omer, R.E. Khalifa, A.M. Hafez. Formation of Zinc oxide nanoparticles using alginate as a template for purification of wastewater. *Environmental Nanotechnology, Monitoring & Management*.(2018),10, 112-121.
18. **T.M. Tamer**, M.N. Collins, K. Valachová, M.A. Hassan, A.M. Omer, M.S. Mohy-Eldin, K. Švík, R. Jurčík, L. Ondruška, C. Biró, A.B. Albadarin, L. Šoltés. MitoQ loaded chitosan-hyaluronan composite membranes for wound healing. *Materials* (2018), 11(4), 569; doi:10.3390/ma11040569
19. M. S. MohyEldin, **T. M. Tamer**, M. A. Abu Saied, E. A. Soliman, N. K. Madi, I. Ragab, I. Fadel. Click Grafting of Chitosan onto PVC Surfaces for Biomedical Applications. *Advances in Polymer Technology*, (2018), 37, (1), 38-49doi: 10.1002/adv.21640.

2017

20. **T. M. Tamer**, M. A. Hassan, A. M. Omer, K.Valachová, M. S. MohyEldin, M. N. Collins, L.Šoltés. Antibacterial and antioxidative activity of O-amine functionalized chitosan. *Carbohydrate Polymers*. *Carbohydrate Polymers*,(2017), 169, 441–450.
21. M. Forte, L. Mita, R. Perrone, S. Rossi, M. Argirò, D. Gustavo Mita, M. Guida, M. Portaccio, T. Godievargova, Y. Ivanov, **M.T. Tamer**, A.M. Omer, M.S. MohyEldin. Removal of methylparaben from synthetic aqueous solutions using polyacrylonitrile beads: kinetic and equilibrium studies. *Environ SciPollut Res.* (2017) 24, 1270–1282.
22. M.S. MohyEldin, A.E. Hashem, **T.M. Tamer**, A.M. Omer, M.E. Yossuf, M.M. Sabet. Development of Crosslinked Chitosan/Alginate Polyelectrolyte Proton Exchanger Membranes for Fuel Cell Applications. *Int. J. Electrochem. Sci.*, (2017), 12, 3840 – 3858.
23. M.S. MohyEldin, A.M. Omer, **T.M. Tamer**, M.H. AbdElmageed, M.E. Youssef, R.E.Khalifa. Novel Aminated Cellulose Acetate Membranes for Direct Methanol Fuel Cells (DMFCs). *Int. J. Electrochem. Sci.*, (2017), 12,4301-4318.
24. M.S. MohyEldin, M.H. AbdElmageed, A.M. Omer, **T.M. Tamer**, M.E. Youssef, R.E.Khalifa. Novel Proton Exchange Membranes Based on Sulfonated Cellulose Acetate for Fuel Cell Applications: Preparation and Characterization. *Int. J. Electrochem. Sci.*,(2017),11, 10150-10171.
25. W.M. Abou-Taleb, G.D.Roston, M.S Mohyeldin, A.M Omer, **T.M. Tamer**, E.F. Shehata. A.M. Hafez. Functionalization of alginate via phosphorization preparation, characterization. *Int. J. Adv. Res.*, (2017), 5(12), 1612-1621.
26. E.S. Kenawy, T. Fayed, M.S. MohyEldin, **T.M. Tamer**, A. El Kfrawy. Improvement of antimicrobial aminated chitosan/PVA blends membranes for food packaging applications. *Int. J. Adv. Res.*, (2017), 5(8), 1527-1539.
27. M.S. MohyEldin, Y.A. Ammar, **T.M. Tamer**, A.M. Omer, A.A. Ali. Development of low-cost chitosan derivatives based on marine waste sources as oil adsorptive materials: I. Preparation and characterization. *Desalination and Water Treatment* (2017) 72, 41-51.

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28. **T. M. Tamer**, M.A. Hassan, A.M. Omer, W.M. A. Baset, M.E. Hassand, M.E.A. El-Shafeey, M.S. MohyEldin. Synthesis, characterization and antimicrobial evaluation of two aromatic chitosan Schiff base derivatives. *Process Biochemistry*, (2016), 51, 1721–1730.
29. K. Valachová, **T.M. Tamer**, M.S. MohyEldin, L. Šoltés. Radical-scavenging activity of glutathione, chitin derivatives and their combination. *Chemical Papers* (2016) 70 (6) 820–

30. **T.M. Tamer**, K. Valachová, M.S. MohyEldin, L. Šoltés. **Free radical scavenger activity of chitosan and its aminated derivative.** J App Pharm Sci, (2016), 6 (04), 195-201.
31. **T.M. Tamer**, K. Valachová, M.S. MohyEldin, L. Šoltés. **Free Radical Scavenger Activity of Cinnamyl Chitosan Schiff Base.** J App Pharm Sci, (2016), 6 (01), 130-136.
32. E.M. El-Sayed, **T.M. Tamer**, A.M. Omer, M.S. MohyEldin, **Development of novel chitosan schiff base derivatives for cationic dye removal: methyl orange model.** Desalination and Water Treatment, (2016), 57(47), 22632-22645.
33. M.S. MohyEldin, M.A. Abu-Saied, **T.M. Tamer**, M.E. Youssef, A.I. Hashem, M.M. Sabet. **Development of polystyrene based nanoparticles ions exchange resin for water purification applications.** Desalination and Water Treatment.(2016) 57 (32), 14810-14823.
34. A.M. Omer,**T.M. Tamer**, M.A. Hassan, P. Rychter, M.S. MohyEldin, N. Koseva. **Development of amphoteric alginate/aminated chitosan coated microbeads for oral protein delivery.** International Journal of Biological Macromolecules, (2016), 92,362–370.
35. M.S. MohyEldin, M.H. AbdElmageed, A.M. Omer, **T.M. Tamer**, M.E. Youssef, R.E. Khalifa. **Development of Novel Phosphorylated Cellulose Acetate Polyelectrolyte Membranes for Direct Methanol Fuel Cell Application.** Int. J. Electrochem. Sci.,(2016), 11, 3467 – 3491.
36. M. S. MohyEldin, Y.A. Ammar, **T.M. Tamer**, A. M. Omer, A.A. Ali. **Development of oleophilic adsorbent based on chitosan-poly (butyl acrylate) graft copolymer for petroleum oil spill removal.** Int. J. Adv. Res. (2016) 4(11), 2095-2111.
37. M.S. MohyEldin, Y.A. Ammar, **T.M. Tamer**, A.M. Omer, A.A. Ali.**Development of a low-cost olephilic adsorbent based on aminated-poly(butyl acrylate)graft copolymer for marine oil spill cleanup.** Int. J. Adv. Res. (2016) 4(11), 2080-2094.
38. M.S. MohyEldin, M.A. Abu-Saied, **T.M. Tamer**, M.E. Youssef, A.I. Hashem, M.M. Sabet. **Development of polystyrene based nanoparticles ions exchange resin for water purification applications.** Desalination and Water Treatment.(2016) 57 (32), 14810-14823.
39. A.M. Omer, **T.M. Tamer**, S. Abdelmoaty, M. Abdel Fatah, G.R Saad. **Development of PVC membranes with clove oil as plasticizer for blood bag applications.** J App Pharm Sci(2016)6 (07), 085-093.
40. A.M. Omer, **T.M. Tamer**, M.A. Hassan, M.M. Sabet, M.S. MohyEldin. **Plasticization of PVC membranes with eugenol for Biomedical Applications.** Int J Pharm (2016), 6(1). 149-155.
41. M.E. Hassan, **T.M. Tamer**, A.M. Omer. **Methods of Enzyme Immobilization.** International Journal of Current Pharmaceutical Review and Research;(2016), 7(6); 385-392.
42. M.S. MohyEldin, A.E. Hashem, A.M. Omer, **T.M. Tamer**, M.E. Yossuf, M.M. Sabet. **Enhancement of solubility and ion exchange capacity of chitosan via N-alkyl sulfonation.** journal de Afrikana, (2016), 3(5); 336-349.

2015

43. **T.M. Tamer**, A.M. Omer, M.A. Hassan, M.E. Hassan, M.M. Sabet, M.S. MohyEldin. **Development of thermo-sensitive poly N-isopropyl acrylamide grafted chitosan derivatives.** Journal of Applied Pharmaceutical Science. (2015) 5 (3):1-6.
44. M.S. MohyEldin, A.I. Hashem, A.M. Omer, **T.M. Tamer**. "Preparation, characterization and antimicrobial evaluation of novel cinnamyl chitosan Schiff base." Int. J. of Adv. Res. (2015) 3 (3), 741-755.
45. M.S. MohyEldin, A.I. Hashem, A.M. Omer, **T.M. Tamer**. **Wound dressing membranes based on chitosan: Preparation, characterization and biomedical evaluation.** Int. J. of Adv. Res., (2015) 3, 8, 908- 922.
46. E.SKenawy, F.I. Abdel-Hay, M.S. MohyEldin, **T.M. Tamer**, E.M.A. Ibrahim. **Novel Aminated Chitosan-Aromatic Aldehydes Schiff Bases: Synthesis, Characterization and Bio-evaluation.** Int. J. of Adv. Res., (2015) 3, 2, 563-572.
47. E.A. Kamoun, E.S. Kenawy, **T.M. Tamer**, M.A. El-Meligy, M.S. MohyEldin. **Poly (vinyl alcohol)-alginate physically crosslinked hydrogel membranes for wound dressing applications: Characterization and bio-evaluation.** Arabian Journal of Chemistry, (2015) 8, (1), pp 38-47.
48. M.S. MohyEldin, A.M. Omer, M.A. Wassel, **T.M.Tamer**, M.S. Abd-Elmonem, S.A.Ibrahim. **Novel**

	<p>smart pH sensitive chitosan grafted alginate hydrogel microcapsules for oral protein delivery: I. Preparation and characterization. <i>Int J Pharm Pharm Sci.</i> (2015), 7(10),320-326.</p> <p>49. M.S. MohyEldin, A.M. Omer, M.A. Wassel, T.M.Tamer, M.S. Abd-Elmonem, S.A.Ibrahim. Novel smart pH sensitive chitosan grafted alginate hydrogel microcapsules for oral protein delivery: II. Evaluation of the swelling behavior. <i>Int J Pharm PharmSci</i> (2015), 7 (10),331-337.</p> <p>2008-2014</p> <p>50. T.M. Tamer. Hyaluronan and synovial joint function, distribution and healing. <i>InterdiscipToxicol.</i> (2013) 6(3): 111–125.</p> <p>51. M.S. MohyEldin, E.A. Soliman, A.I. Hashem, T.M. Tamer. Antimicrobial Activity of Novel Aminated Chitosan Derivatives for Biomedical Applications. <i>Advances in Polymer Technology,</i> (2012) 31 (4), 414-428.</p> <p>52. M.S. MohyEldin, E.A. Soliman, A.I. Hashem, T.M. Tamer. Antibacterial Activity of Chitosan Chemically Modified with New Technique. <i>Trends Biomater. Artif. Organs,</i> (2008), 22(3), 121-133.</p> <p>53. M.S. MohyEldin, E.A. Soliman, A.I. Hashem, T.M. Tamer. Chitosan Modified Membranes for Wound Dressing Applications: Preparations, Characterization and Bio-Evaluation. <i>Trends Biomater. Artif. Organs,</i> (2008) 22(3), 154-164.</p>
<p>Book chapters</p>	<p>54. Ahmed M. Omer.; Tamer M. Tamer.; Randa E. Khalifa.; Samar A. Gaber.; Mohamed S. MohyEldin. Smart Biopolymer Hydrogels Developments for Bio-technological Applications. In: Mondal M. (eds) <i>Cellulose-Based Superabsorbent Hydrogels. Polymers and Polymeric Composites: A Reference Series.</i> Springer, Cham,ISBN: 978-3-319-76573-0(2018).</p> <p>55. MohyEldin, M. S.; Omer, A. M.; Tamer, T. M.; Khalifa, R. E and S. Aboulhadeed. Development of Superabsorbent Graft Copolymer Hydrogel based on Carboxymethyl Cellulose for Water Retention in Sandy Soil. Book chapter, NOVA science publisher, Accepted, (2018).</p> <p>56. Khalifa, R. E.; MohyEldin, M. S.; Omer, A. M.; Tamer, T. M.Cellulose Based Polyelectrolyte Proton Exchange Membranes for Fuel Cell Applications. Book chapter, Taylor & Francis encyclopedias, Under Publishing,(2018).</p> <p>57. Valachova, K., Tamer, M. T., Veverka, M., Soltes, L. Preparation of two quercetin derivatives and evaluation of their antioxidative activity. <i>Engineering Technology and Industrial Chemistry with Applications,</i> R. Haghi, F. Torrens (eds), Apple Academic Press, Taylor & Francis Group, New Jersey, USA, (2018) pp. XXX-YYY ISBN: 9781771886376,</p> <p>58. Sabet, M. M., Tamer, M. T., Omer, A. M. Antioxidative activity of hyaluronan: Evaluation and mechanism. <i>Engineering Technology and Industrial Chemistry with Applications,</i> R. Haghi, F. Torrens (eds), Apple Academic Press, Taylor & Francis Group, New Jersey, USA, (2018) pp. XXX-YYY ISBN: 9781771886376,</p> <p>59. Tamer, M. T., Valachova, K., Omer, A. M., Sabet, M. M., Soltes, L. Effects of glutathione, phosphonate or sulfonated chitosans and their combination on scavenging free radicals. In.: <i>"High-Performance Materials and Engineered Chemistry"</i> F. Torrens, D. Balkose, S. Thomas (eds), Apple Academic Press, Taylor & Francis Group, New Jersey, USA, (2018) pp. XXX-YYY ISBN: 9781771885980</p> <p>60. Sabet, M. M., Tamer, M. T., Omer, A. M. Hyaluronan: Biological function and medical applications. In.: <i>"Applied Chemistry and Chemical Engineering, Volume 2: Principles, Methodology, and Evaluation Methods"</i> A. K. Haghi, L. Pogliani, D. Balkose, O. V. Mukbaniani, A. G. Mercader (eds), Apple Academic Press, Taylor & Francis Group, New Jersey, USA, (2018) pp. 139-156 ISBN:9781771885584</p> <p>61. Omer, A. M., Tamer, M. T., Mohyeldin, M. S. High-molecular-weight of biopolymer. <i>Sci. J. Volgograd State Uni., Technology and Innovations</i> 3 56-70 <i>ibid</i> In.: "Analysis and Performance of Engineering Materials. Key Research and Development" G. E. Zaikov (ed.), Apple Academic Press, Toronto, New Jersey, N 3 (12), 56-71. ISBN: 9781771880855. (2015)</p>

	<p>62. Valachova, K., Tamer, M. T., Soltes, L. Comparison of free-radical scavenging properties of glutathione under neutral and acidic conditions.In.: "Chemistry, Biochemistry, and Biology, New Achievements": Theory and Practices, G. E. Zaikov, A. K.Haghi, R. Jozwik (eds), Apple Academic Press, Taylor & Francis Group, Toronto, USA, 2014 pp. 227-245.ISBN: 9781771880183. (2015)</p> <p>63. Tamer, M. T.,Valachova, K.,Šoltés, L. Inhibition of free radical degradation in medical grade hyaluronic acid. Hyaluronic Acid for Biomedical and Pharmaceutical Applications, Publisher: Smithers Rapra Technology Ltd, Editors: Maurice N. Collins, pp. 103-117. ISBN: 9761909030770 (2014)</p> <p>64. Tamer, M. T. Hyaluronan degradation under free-radical oxidation stress: action and healing. Engineering of Polymers and Chemicals Complexity: Volume II: New approaches, limitations, and control. Chapter 6. pp 107-144, ISBN: 9781926895871 (2014).</p> <p>65. Mohyeldin, M. S., Soliman, E. A., Hashem, A. I.,Tamer, M. T., Sabet, M.M.Antifungal Activity of aminated Chitosan against three different fungi species. Key Engineering Materials- Current State-of-the-Art on Novel Materials- vol 1, Chapter 26,ISBN: 9781926895734 (2013).</p> <p>66. MohyEldin, M. S.,Soliman, E.A., Hashem,A. I., Tamer, T.M. Biopolymer modifications for biomedical applications.Infrared Spectroscopy - Life and Biomedical Sciences, Chapter 20, ISBN: 978-953-51-0538-1. (2012).</p>
Patent	<p>Soltes, L., Tamer T.M.,Veverka M., Valachova K., MohyEldin S. M.□"Self-associating biopolymeric membranes as carriers of remedies with antioxidative properties and their use." subscribed only in Slovak Republic as invention with Number: 288581.</p>
List of Academic supervision	<p>PhD thesis</p> <ol style="list-style-type: none"> 1. Advanced wound dressing based on gelatin biopolymer. PhD. in Department of Chemistry, Faculty of Science, Tanta University (2016-2019). 2. Preparation, characterization and evaluation of polymeric resin for water treatment applications. PhD. in Department of Chemistry, Faculty of Science, Damietta University (Running 2015). 3. Development of antimicrobial Gluten against multi-drug resistant microorganisms from diabetic patients for wound dressing applications. PhD. in Department of botany and microbiology , Faculty of Science, Tanta University (2016-2019) 4. Development of natural Polymeric Materials for Removing Petroleum Oil Spills. . PhD. in Department of Chemistry, Faculty of Engineering, Alexandria University (2016- 2018). 5. Development of Some Bio-based Graft Copolymers for Oil Spill Removal. PhD. in Department of Chemistry, Faculty of Science, Al- Azhar University (2014- 2017) 6. Development of Polymer Polyelectrolyte Membranes for Direct Methanol Fuel Cell Application. PhD. Department of Chemistry, Faculty of Science, Ain Shams University (2014 2017). 7. Development of magnetic iron oxide nanoparticles for heavy metal removal application. PhD. in Department of physics, Faculty of Science, Alexandria University (2014- 2017) 8. Water purification technology by using the optical metal oxide nanoparticles. PhD. in Department of physics, Faculty of Science, Alexandria University (2014- 2018) <p>Master thesis</p> <ol style="list-style-type: none"> 1. Preparation of semi- interpenetrated polymers based PVA and poly 2-acrylamido-2-methylpropanesulfonic acid for dye removing applications, M. Sc. in department of material science, institution of graduate studies and researches. (2014- 2018). 2. Synthesis, characterization and evaluation of chemically modified chitosan membranes for advanced biomedical applications. M. Sc. in Department of Chemistry, Faculty of Science, Al- Azhar University (2016-2019). 3. Novel antimicrobial polymeric coatings on medical grade stainless steel for implant applications, M. Sc. in Department of Chemistry, Faculty of Science, Ain Shams University (girl branch) (Running 2017). 4. Preparation and characterization of magnetic polymeric nanoparticles for water purification

applications, in Department of Chemistry, Faculty of Science, Al- Azhar University (Running 2017).

5. Antibacterial studies on gelatin membranes against pathogenic bacteria from wounds for applying as wound dresser, M. Sc, Faculty of Science, Alexandria University (2015- 2017).
 6. The effect of two aging methods on the flexural strength and crystal structure of yettristabilisedzirconiapolycrystals (in vitro study), M. Sc, Faculty of Dentistry, Alexandria University (2015-2017).
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