

## Curriculum Vitae

### Maher Z. Elsabeé

34 Abdel Mooti Khayal Street. Heliopolis, Cairo, Egypt  
Chemistry Department, Faculty of Science, Cairo, University  
Tel: 26352316 (H), mobile 01006680474  
e-mail [melsabee@yahoo.com](mailto:melsabee@yahoo.com), mzelsabee@yahoo.com

Date of Birth: 10/2/1943 Egypt  
Marital status: Married 1974, (two sons, Karim and Ramy)

#### Education:

Cairo University: B.Sc. 1963 Chemistry (distinction with Honors)

American University in Cairo: M. Sc. 1965 Solid State Chemistry

Leningrad Institute of Textile and Light Industry: Ph. D. 1970 Polymer Chemistry

#### Employment:

Cairo University	1963-1965	Assistant of Chemistry
Cairo University	1970-1976	Lecturer of Physical Chemistry
Cairo University	1976-1983	Associate Professor
Cairo University	1983-present	Professor of Chemistry
University of Kuwait	1993-1998	Professor of Chemistry

#### Professional Experience:

University of Massachusetts Amherst, MA, USA	1976-1977	Post doctorate, Polymer Science. Dept.
Carnegie-Mellon Institute of Research, Pittsburgh, PA, USA	1977-78	Research Associate
Institute of Macromolecular Chemistry, Freiburg, Germany	1981, (two months),	DAAD, Scholar
Institute of Macromolecular Chemistry, Freiburg, Germany.	1983-1984	Fellow Alexander Von Humboldt Stiftung
University of Sterling, Scotland	1986 (one month),	British council
University of Hamburg, Germany	1988 (two months),	Alex. Von Humboldt stiftung
University of Florida, Fl, USA	1989 (three months)	Fulbright Scholar
University of Florida, Fl, USA	1990-1992	Visiting Professor of Chemistry
University of Kuwait Kuwait	1993-1998	Visiting Professor of Chemistry
University of Halle, Institute of Physical Chemistry, Halle Germany	2002, and 2003, two months each year,	Alexander von Humboldt stiftung
University of Kuwait	1993-1998	Visiting professor

## Language Proficiency:

Arabic Native  
English Excellent  
Russian Excellent  
German Fair

## Professional Recognition:

- DAAD Fellowship Freiburg, and Braunschweig, March-April 1981 Germany
- Alexander von Humboldt Freiburg, 1983-84 and 1988, Hamburg Fellowship
- Third World Academy of Trieste, Italy April 1987 Science Symposium of Macromolecules
- Fulbright Fellowship 3 months, Gainesville, Florida, USA 1989
- Member of the Central Committee of Promotion Egypt

**Publications: 103 Published Papers**

## Teaching Experience:

- General Chemistry, Chemical Thermodynamics
- Molecular Structure Elucidation, and Physical-Properties
- Chemistry of Polymers, for graduate and undergraduate students, 42 years experience.

## Full List of Publications

1. Elsabeé, M. Z. Dimitrievna, S. I. and Meos, A. I. "Copolymerization of Vinyl acetate with N-vinyl caprolactam" *Vysokomol. Soedin. Ser B* 1970, 12, 3
2. Elsabeé, M. Z. Dimitrievna, S. I. and Meos, A. I. " Kinetics of Copolymerization of Vinyl acetate with N-vinyl caprolactam" *Trudy Probl. Lab. Leningrad Inst. Tex. Light Industry*, 1971
3. Elsabeé, M. Z. Dimitrievna, S. I. and Meos, A. I. " Fractionation of Vinyl acetate - N-vinyl caprolactam Copolymers" *Trudy Probl. Lab. Leningrad Inst. Tex. Light Industry*, 1971
4. Cherkasof, A. A. Klenin, S. I. and Elsabeé, M. Z. "Characterization of Vinyl acetate - N-vinyl caprolactam Copolymers" *Vysokomol. Soedin Ser B* 1972, 14, (6) 1326
5. Elsabee, M. Z. Ahmed, A. H. Mawaziny, S. " Copolymerization of Acrylonitrile with Ethylmethacrylate I" *Eurp. Polym. J.* 1974, 10, 1149
6. Elsabee, M. Z. Shinuoda, H. G. Morsi, M. A. Ahmed, A. H. Mawaziny, S. " Copolymerization of Acrylonitrile with Ethylmethacrylate II" *Die Makromolkulare Chem.* 1976, 12, 176, 3565
7. Mawaziny, S. Arafa, S. Isakander, M. and Elsabeé, M. Z. "Free radical in Irradiate Polymethyl styrene" *J. Polym. Sci. Chem. Ed.* 1976, 14, 6671
8. Elsabeé, M. Z. Matter, S. W. Habashy, G. M. "Bonding between Cu(II)-Amine Complex and Celluolose and Relate Carbphydrates" *J. Polym. Sci. Chem. Ed.* 1976, 14, 7, 1773

9. Elsabeé, M. Z. Elnagdi, M. H. Habashy, G. M. "Polarographic Behavior of Some Arylhydrazono Azoles" *J. Fur Praktisch Chem.* 1976, 313, 11, 658
10. Morsi, M. A. Elsabeé, M. Z. Elnagdi, M. H. "Polarographic Behavior of 3,5-diamino-4-arylazopyrazoles" *Bulletin of Mansura University*, N0 5, 1977
11. Elsabeé, M. Z. Perkins, W. Porter, R. S. "Thermal and Mechanical Behavior of a drawn Polyethylene" *J. Thermal Anmalysis*, 1977, 15, 225
12. Zahran, A. Nofal, E. Elsabeé, M. Z. "Irradiation of Polyvinyl Chloride with H<sub>2</sub> Plasma I" *J. Appl. Polym. Sci.* 1979, 1723
13. Zahran, A. Nofal, E. Elsabeé, M. Z. "Effect of H<sub>2</sub> Plasma on PVC with Different Additives" *J. Appl. Polym. Sci.* 1979, 24, 1875
14. Mongy, M. Azi, A. W. Elsabeé, M. Z. "Ultrasonic Detection of Free radical Decay in Nylon 6" *Ultrasonics*, 1980, 18, 120
15. Mongy, M. Azi, A. W. Elsabeé, M. Z. "Ultrasonic Detection of Free radical Decay in Polymethyl methacrylate" *Acoustic*, 1981, 15, 48
16. Mongy, M. Azi, A. W. Elsabeé, M. Z. "Ultrasonic Detection of Free radical Decay in Polymethyl methacrylate" *Radiation Phys. Chem.* 1982, 9, 147
17. Dror, M. Elsabeé, M. Z. Berry, G. C. "Interpenetrating Polymer Network for Biological Applications" *Biomaterials, Med. Dev. Art. Organs*, 1979, 7(1), 31
18. Dror, M. Elsabeé, M. Z. Berry, G. C. " Gradient Interpenetrating Polymer Network I " Poly(ether-urethane) and Polyacrylamide IPN" *J. Appl. Polym. Sci.* 1981, 26, 1741
19. Elsabeé, M. Z. Dror, M. Berry, G. C. " Gradient Interpenetrating Polymer Network II "Polyacrylamide Gradient in Poly(ether-urethane) IPN" *J. Appl. Polym. Sci.* 1983, 28, 2151
20. Elsabeé, M. Berry, G. C. "Interpenetrating Polymer Network III "Poly-N-vinyl-2-pyrrolidone and Poly(ether-urethane) IPN. Paper presented at the Second Conference of Biophysics in Cairo. Nov. 1985
21. Kulicke, W-M, Elsabeé, M. Z. Eisenbach, C. D. Peuscher, M. "Effect of Molecular Distribution on the Rheological Properties of Aqueous Polyethylene oxide Solution" *Polymer Bulletin*, 1983, 9, 190
22. Elsabeé, M. Z. Mokhtar, S. M. "Polymerization of N-Arylmaleimides" *Europ. Polym. J.* 1983, 3, 21
23. - Mongy, M. Abd-ElMalak, N. A. Elsabeé, M. Z. "Detection of Secondary Relaxation in Nylons by Ultrasonic Technique" *Acoustic*, 1982, 3, 51
24. Aziz, A. W. Elsabeé, M. Z. Abd-El-Nour, K. N. "The Dielectric Behavior and Secondary Relaxation of Segmented Poly(ether-ester) block copolymers" *Acustica*, 1983, 54, 2, 106
25. Elsabeé, M. Z. Sabaa, M. S. Mokhtar, S. M. "Copolymerization of N-Arylmaleimides with Vinyl acetate I" *Polymer J. (Japan)* 1983, 15, 6
26. Elsabeé, M. Z. Sabaa, M. S. Mokhtar, S. M. "Copolymerization of N-Arylmaleimides with Vinyl acetate II" *Polymer J. (Japan)* 1985, 17, 6, 737
27. Sabaa, M. W. Mikhael, M. G. Yassin, A. A. Elsabeé, M. Z. "Copolymerization of Acrylonitrile with N-Arylmaleimides" *Die Angwandate Makromol. Chem.* 1986, 139, 95
28. Aziz, A. Jebrael, F. Elsabeé, M. Z. " Copolymerization of N-Arylmaleimides with Styrene" *Macromolecules*, 1986, 19, 32
29. Abd-El-Nour, K. N. Fikry, H. N. Elsabeé, M. Z. "Dipole Moment and Dielectric Behavior of Methyl methacrylate-Phenylmaleimide system in Dilute Solutions" *Ind. J. Pure and Applied Phys.* 1987, 25, 5

30. Elsabeé, M. Z. Wegner, G. "Behavior of Some Polymers on Water-Air Interface" Paper presented at the 9<sup>th</sup> Conference of Solid State Physics Held in Sinai, Egypt, 1986, April.
31. Elsabeé, M. Z. Sabaa, M. S. Naguib, H. F. Furuata, K. " Copolymerization of Methyl methacrylate with N-Arylmaleimides in Different Solvents" J. Macromol. Sci. Chem. 1987, A 24 (190) 1207
32. Elsabeé, M. Z. Mikhael, M. G. Sabaa, M. S."Copolymerization of Acrylonitrile with Maleamic Acids Derivatives" Die Angew. Makromol. Chem. 1987, 157, 43-57
33. Sabaa, M. S. Mikhael, M. G. Elsabeé, M. Z. "Effect of ZnCl<sub>2</sub> on the Copolymerization of Acrylonitrile with N-Phenylmaleimide" Polym Bulletin. 1987, 18, 9
34. Mokhtar, S. M. Mikhael, M. G. Aly. R. O. Elsabeé, M. Z. "Copolymerization of Indene with N-Phenylmaleimide" Polymer J. (Japan) 1989, 20, 22
35. Mikhael, M. G. Mokhtar, S. M. Saad, G. R. Naoum, M. M. Elsabeé, M. Z. "Copolymerization and interaction Behavior of Acrylonitrile with Indene" J. Polym. Sci. 1989, 27, 185
36. Sabaa, M. S. Mikhael, M. G. Elsabeé, M. Z. "Thermal and Dyeing Properties of Acrylonitrile-Indene Copolymers" Polym. Stability and Degradation 1989, 23, 257
37. Elsabeé, M. Z. Sabaa, M. S. Mikhael, M. G. ElHamouly, S. "Thermal and Dyeing Properties of Acrylonitrile-Glycidyl methacrylate Copolymers" Die Angew. Makromol. Chem.1989, 168, 91
38. Elsabeé, M. Z. Sabaa, M. S. Naguib, H. F. Mikhael, M. G. "Polymerization and Chelating Behavior of N-Acryloyl-N'-Phenyl thiourea" Polym. Bulletin, 1989, 22, 143
39. Kulicke, W-M. Aggour, Y. A. Nottlemann, H. Elsabeé, M. Z. "Swelling and Rheological Studies of some Starch Hydrogels" Starch/Stärke, 1989, 41, 4, 140
40. Elhamouly, S. H. Elsabeé, M. Z\*. Abd ElNour, K. N."Dielectric Behavior of Butyl Methacrylate-Glycidyl Methacrylate Copolymers" J. Material Sci. 25, 1251, 1990.
41. Kulicke, W. M. Nottelmann, H. Aggour, Y. A. Elsabeé, M. Z. "Preparation and Characterization and Rheological Behavior of Starch-Sodium Trimethaphosphate Hydrogels" Starch/Starke, 42, 4, 134, 1990.
42. Sabaa, M. S. Mikhail, M. G. Elkhoully, S. Elsabeé, M. Z\*. "Chemically Induced Graft Copolymerization of Methyl Methacrylate Onto Sisal Fiber" Cellulose Chemistry and Technology 29, 671 1995.
43. Elsabeé, M. Z\*. Naguib, H. F. Mikhail, M. G. and Sabaa, M. S. "Copolymerization and Cyclization Behavior of N-acryloyl, N'-phenyl thiourea" Macromolecules, 24, 1962-68 1991.
44. Elsabeé, M. Z. and Prankard, R. J. "Solid State Properties of Drugs. Part II Peak Shape Analysis and Deconvolution of Overlapping Endotherms in Differential Scanning Analysis of Chiral Mixtures" Int. J. Pharm., 86, 211-19, 1992.
45. Elsabeé, M. Z. and Prankard, R. J. "Solid State Properties of Drugs. Part II Peak Shape Analysis and Deconvolution of Overlapping Endotherms in Differential Scanning Analysis of Chiral Mixtures" Int. J. Pharm., 86, 221-30, 1992.
46. Batich, C. D. Yan, J. and Elsabeé, M. Z. Swelling Behavior of pH-sensitive Copolymers Based on styrene and 4-(3-) Vinylpyridine." Macromolecules, 26, 4675-80, 1993.

47. Elsabeé, M. Z. and Prankard, R. J. "Thermal Analysis of Chiral Drug Mixtures: The DSC Behavior of Mixtures of Ephedrine HCl and Pseudoephedrine HCl Enantiomers" *Thermochimica Acta*, 248, 147-60, 1995.
48. Elsabeé, M. Z\*. Abd El-Nour, K. N. Abd El-Messieh, S. L. "Dielectric Relaxation of Some Flexible Copolymers in Dilute Solutions" *Polymer J.* 1, 1, 1995.
49. Abd El-Nour, K. N. Abd El-Messieh, S. L. Elsabeé, M. Z\*. "Dielectric of Some Maleimide Derivatives and their Mixtures with Methyl methacrylate" *J. Molecular Liquids*, 63, 265-81, 1995.
50. Al-Awadi, Nouria, A. Elsabeé, M. Z\*. Thermal Pyrolysis of N-acryloyl N-cyanoacetohydrazide and its Polymer" *Polymer Degradation and Stability*, 50, 319-22, 1995.
51. Al-Awadi, Nouria, A. Elsabeé, M. Z\*. "Pyrolysis of 1-methacryloyl-3-phenylthiourea and its Polymer: Rate and Mechanism" *Polymer Degradation and Stability*, 50, 323-28, 1995.
52. Naguib, H. F. Al-Sagheer, F. A. Ali, A. M. and Elsabeé, M. Z\*. "Polymerization Behavior of a New Vinyl thiourea Derivatives" *Eur. Polym. J.* 32, 8, 985, 1996.
53. Al-Sagheer, F. A. Ali, A. M. Rayiad, M. and Elsabeé, M. Z\*. "Polymerization Behavior of a New Vinyl Monomer Bearing a Heterocyclic Group" *Polymer International*, 44, 88-94, 1997.
54. Al-Awadi, Nouria, A. Elsabeé, M. Z\*. "Thermal Degradation of Some Dialkyl Fumarates " *Polymer Degradation and Stability*, 57, 255-60, 1998.
55. Al-Awadi, Nouria, A. Elsabeé, M. Z\*. "Pyrolysis of Some Acrylamido Derivatives Bearing a Heterocyclic Group" *Polymer Degradation and Stability*, 71-78, 60, 1998
56. Salman, I. A., Al-Sagheer, F. A. and Elsabeé, M. Z\*. Polymerization and Copolymerization of maleimide Containing Heterocyclic Group" *J. Macromol. Sci. Pure and Applied Chemistry*. A34(7) 1207-20, 1997.
57. Mokhtar, S. M. Elsabeé, M. Z\*. Elkholy, S. and Sabaa, M. S. "Radical Polymerization and Copolymerization Behavior of N-Acryloyl, N'-Cyanoacetohydrazide" *Polymer J. (Japan)* 29, 12, 964, 1997.
58. Ali, A. A. M. Al-Arbash, A. H. and Elsabeé, M. Z\*. "Blending of Polydialkyl Fumarates with Polymethyl methacrylate" *International Polymer Conference, Luxor Egypt 1999*.
59. Ali, A. A. M. Al-Sagheer, F. A. and Elsabeé, M. Z\*. "Study of the Polymerization of Solid Vinyl Monomers using DSC" *Polymer Testing* 18, 313-19, 1999
60. Al-Arbash, A. H. Al-Sagheer, F. A. Ali, A. A. M.. and Elsabeé, M. Z\*. "Glass-Transition Temperature of Polydialkyl Fumarate Copolymers" *J. Polym. Sci. Part A: Polymer Chemistry*, 37, 1839-45, 1999
61. W. M. Sigmund, G. Weerasekera, C. Marestin, S. Styron, H. Zhou, **M. Z. Elsabee**, J. Rühle, G. Wegner, and R. S. Duran\*. Polymerization of Monolayers of 3-Substituted Pyrroles, *Langmuir* 15(19)6423-6427, 1999
62. Elsabeé, M. Z\*. and Ibrahim, S. G. "Polymerization of Dialkyl Fumarates by Differential Scanning Calorimetry" *Polymer Testing, Polymer testing* 20(2001) 173-178
63. Mokhtar<sup>a</sup> S. M., Sabaa, M.W. Elkholy S. and Elsabeé\*, M. Z. "Radical polymerization and copolymerization behavior of 1-cyanoethanoyl-4-acryloylthiosemicarbazide", *J. Polymer Research*, 7 (4) 229-235 (2000)
64. Abou-aiad T. H. Elsabeé M. Z. Abd-El-Nour K. N. Saad G. R. " Miscibility and Specific interaction of Polyhydroxybutyrate PHB Blended with Poly(vinyl

- acetate-co-vinyl alcohol) PACA with some Biological Applications, *J. Appl. Polym. Sci.* 86, 2363-2374(2002).
65. Emil, M. Elsabeé\*, M.Z. Preparation and Characterization of Polyester Based on (2-hydroxypropyle terphthalate). *J Polymer Research* 5, 2002
  66. Naguib, H. F. Saad, G. R. Elsabeé\*, M.Z. "Copolymerization of N-Bromophenyl maleimide with Ethyl and Butyl methacrylate" *Polymer International*, 52, 1217-1221 (2003).
  67. Naguib, H. F. Mokhrar, S. M. Ali, R. M. Elsabeé\*, M. Z. "Terpolymerization of Ethyl methacrylate, N-phenyl maleimide, and Itaconic Acid" *J. Polym. Sci., Chem. Ed.* 41, 3180-3187 (2003)
  68. Azza A Abo-Hussen, Said S. Elkholy and M. Z. Elsabee "Metal uptake by Novel Bidantate Thiosemicarbazide Chelating Polymers" *J. Coordination Chemistry*, 57,12,1027-1036 (2004)
  69. Said S. Elkholy, Khalid D. Khalil "Homogeneous and Hetrogeneous Grafting of Chitosan with 4-Vinyl pyridine" *J. Appl. Polym. Sci.* 99(2006) 3308-3317
  70. Said S. Elkholy, Khalid D. Khalil, Maher Z Elsabee, and Mohamed Eweis " Grafting of Vinyl Acetate onto Chitosan and Biocidal Activity of the Grafted Copolymers" *J. Appl. Polym Sci.* 103, 1651-1663 (2007)
  71. Elsabee, MZ. Bamezai, RK. Hempel E. Kresse H. Dielectric and Thermal Behavior of Ethyl and Butyl methacrylate and N-p-cyano-phenyl maleimide, *J Polymer Research* (2005)12:61-66
  72. Abou-aiad T. H. Abd-El-Nour K. N. Hakim, I. K. Elsabeé M. Z."Dielectric and interaction behavior of chitosan/polyvinyl alcohol and chitosan/polyvinyl pyrrolidone blends with some antimicrobial activities." *Polymer*, 47, 379-389(2006)
  73. Eweis, M. Elkholy S. and M. Z. Elsabee, Antifungal efficacy of Chitosan and some of its derivatives, *International Journal of Biological Macromolecules* 38 (2006) 1-8
  74. Abou-aiad T. H. Abd-El-Nour K. N. Hakim, I. K. Elsabeé M. Z."Dielectric relaxation and spectroscopic investigation of polyhydroxybutyrate PHB blends with polyvinyl acetate PVAc and poly(vinylacetate-co-vinyl alcohol) PACA. *Polymer-Plastics Technology and Engineering*, 46, 1 (2007) , 1 - 6
  75. Mohammady, S. Z. Elkholy, S. S. Elsabee, M. Z. "Investigation of the Relaxation Behavior of Novel Terpolymers of Acrylonitrile, Methyl methacrylate and Indene" *Polymer International*, 56:7-13 (2007)
  76. Entsar S. Abdou, Said S. Elkholy, **Maher Z. Elsabee\*** and Mohamed Eweis,"Improved Antimicrobial Activity of Polypropylene Films by Plasma Surface Treatment and Modification with Chitosan" *J Applied Polymer Science*, vol 108, 2290-2296(2008)
  77. Entsar S. Abdou, Khalid Nagy, and **Maher Z. Elsabee\***, Extraction of Chitosan from Local Sources, *Bioresource Technology*, vol 99: 1359-1367 (2008)
  78. **Maher Z. Elsabee**, Entsar S. Abdou, Khalid Nagy, Eweis, M, "Modification of Polypropylene films with Corona discharge and chitosan" *Carbohydrate Polymers.* 71(2) 187-195(2008)
  79. G. R. Saad, R. E. Morsi, **M. Z. Elsabee**" Dielectric relaxation of mono-esters based poly(styrene-co-maleic anhydride)copolymer" *J. Polymer Research.* 15:115-123 (2008)

80. Al-Sabagh A. M. Noor El-Din M. R. Morsi R. E. **Elsabee\* M Z**” Demulsification efficiency of some novel styrene maleic anhydride copolymers monoesters” J Appl Polym Sci. vol.108, 2301-2311(2008)
81. Al-Sabagh<sup>1</sup> A. M. Noor El-Din<sup>1</sup> M. R. Morsi <sup>2</sup> R. E. Elsabee<sup>2\*</sup> M Z Oil Soluble Styrene- Maleic Anhydride Copolymer Derivatives and Their Flow Improver Properties of Waxy Crude Oil. J Petroluem Science and Engineering. 65 (2009) 139–146
82. Mona A. Saied, Samia H. Mansour, Mohamed Eweis, Maher Z. El-Sabee, Azima L. G. Saad, Kamal N. Abdel Nour”Some biophysical properties of castor oil esterified with some acid anhydrides ” Volume 110 Issue 10 (2008) 926-934
83. E. Metwally, S. S. Elkholy, H.A.M. Salem and M. Z. Elsabee\*” Sorption Behavior of <sup>60</sup>Co and <sup>152+154</sup>Eu Radionuclides onto Chitosan Derivatives” Carbohydrate Polymers, 76, 4, (2009), 622-631
84. Fakhreia Alsaagheer, Mona Alsyghayer, S Muslim, Maher Z Elsabee "Extraction and characterization of chitin and chitosan from marine sources in Arabian Gulf" Carbohydrate Polymers 77,(2), (2009), 410-419
85. Hala F Naguib, Samia M Mokhtar, Nessrin Z Khalil, Maher Z Elsabee" Polymeriztin Kinetics of indene, methyl methacrylate and acrylonitrile and characterization of their terpolymer" Polymer Research 16, (6) (2009), Page 693
86. Maher Z Elsabee "Chitin and Chitosan: Extraction and Characterization” book series Compendium of Bioactive Natural Products, volume 6 chapter 14 M/S. Studium Press LLC, USA. 2010
87. Maher Z Elsabee\* and Rania Elsayed Morsi and A.M. Al-Sabagh " Surface Active properties of Chitosan and its Derivatives " Colloids and Surfaces B: Biointerfaces, 74 (2009) 1-16
88. Maher Z Elsabee” Pour Point Depressant” Hydrocarbon world volume 5 issue (1) In press
89. Eman A Ali, Samia M Mokhtar, Maher Z Elsabee”Synthesis, Characterization and Polymerization of Novel Thiophene Substituted Maleimide” Polymer-Plastics Technology and Engineering, 49: 953–962, 2010
90. Al-Sabagh, A.M., Elsabee, M., Khaled, K., Eltabie, A.E. Synthesis of some surfactants based on polytriethanolamine and investigation of their surface active properties *Journal of Dispersion Science and Technology* 31 (10) (2010), pp. 1335-1343
91. Al-Sabagh, A.M., Elsabee, M., Elazabawy, O.E., El-Tabey, A.E. Corrosion inhibition efficiency of polytriethanolamine surfactants for pipe-lines carbon steel in 1M HCL *Journal of Dispersion Science and Technology* 31 (10)(2010), pp. 1288-1297
92. Alishai, A. Mirvaghefi A., Tehrani M. R. Farahamand H. Shojaosadati S. A. Dorkoosh F. A. Elsabee Maher Z. “ Shelf life and delivery enhacment of

---

\* Corresponding author, mzelsabee@yahoo.com

- vitamin C using chitosan nanoparticles” *Food Chemistry* 126 (2011) 935–940
93. Said S. Elkholy, Khalid D. Khalil, and Maher Z Elsabee” Grafting of Acryloyl cyano acethydrazide onto Chitosan and biocidal activity of the graft copolymers”, *J Polym Res* (2011) 18:459–467
  94. Adel A. Emara, Mohamed Tawab, Maher Z Elsabee “Metal uptake using chitosan Derivatives” *Carbohydrate Polymers* 83 (2011) 192–202
  95. Hanna Sawsan, and Elsabee Maher Z “Rubber Types , Properties and Uses” Chapter 6 in Press
  96. Dalia L. Hawary, Mohamed A. Motaleb, Hamed Farag, Osiris W. Guirguis<sup>2</sup> and Maher Z Elsabee "Lactosaminated N-Succinyl-Chitosan as a Liver Targeted Delivery of <sup>99m</sup>Tc in Vivo for Nuclear Imaging and Biodistribution" *Journal of Labelled Compounds and Radiopharmaceuticals* 54, (10), 2011, Pages 664-670
  97. Maher Z. Elsabee, Eman A. Ali, Samia M. Mokhtar , Mohamed Eweis” Synthesis, Characterization Polymerization and Antibacterial Properties of Novel Thiophene Substituted Acrylamide” *Reactive & Functional Polymers* 71 (2011) 1187–1194
  98. A.Alishahi, A.Mirvaghefi, M.R. Tehrani, H.Farahmand, S.A. Shojaosadati , F.A. Dorkoosh and Maher Z. Elsabee\* Enhancement and characterization of chitosan extraction from the wastes of shrimp packaging plants. *J Polym Environ* (2011) 19:776–783
  99. A. Alishahi, A. Mirvaghefi, M.R. Tehrani, H. Farahmand, S. Koshio, F.A. Dorkoosh, Maher Z. Elsabee Chitosan nanoparticle to carry vitamin C through the gastrointestinal tract and induce the non-specific immunity system of rainbow trout (*Oncorhynchus mykiss*) *Carbohydrate Polymers* 86, 1, 1 2011, 142-146
  100. Dalia L. Hawary, Mohamed A. Motaleb, Hamed Farag , Osiris W. Guirguis and Maher Z Elsabee. Water-Soluble Derivatives of Chitosan as a Target Delivery system of <sup>99m</sup>Tc to Some Organs in Vivo for Nuclear Imaging and Biodistribution, *J Radioanalytical and Nuclear Chemistry.* (2011) 290:557–567
  101. Moataz A. Elsayy, Gamal R. Saad and Maher Z. Elsabee. Grafting of N-isopropyl Acrylamide onto Bacterial Polyhydroxybutyrate/hydroxyvalerate copolymers. *Polymer-Plastics Technology and Engineering*, 50: 1055–1063, 2011
  102. Abdou Entsar, Elsabee Maher, Elkholy Said” *The Amazing Materials Chitin and Chitosan*” Lambert Academic Publishing 2011 Saarbruken, Germany



103. A. M. Al-Sabagh<sup>1</sup>, R. E. Morsi<sup>1</sup>, M. Z. Elsabee<sup>2</sup>, H. F. Naguib<sup>2</sup>, Y. M. Moustafa” Petroleum Oil Dispersion Efficiency and Stability Using Echo-Friendly Chitosan Based Surfactant and Nanoparticles” *Journal of Dispersion Science and Technology In Press*