**List of Publications**

1-S.H. Kandil, A.M. Gad, M.F. Khalil and **W.K. Mekhamer** "Investigation of some Spectroscopic, Thermal properties of Co- Methacrylate Styrene" Society Plastic Engineer Proc. 866-70, Atlanta U.S.A. 1988.

2- **W.K. Mekhamer**, A.M., Khattab, F.F.Assad and S.H. Kandil " Interaction of kaolinite clay minerals with polyvinyl alcohol" presented at the second Arab international conference on polymeric material, Egypt, 1990.

3- A.M.Gad**, W.K. Mekhamer**, A.M., Khattab, " Effect of polyvinyl pyrolidon on flocculation of kaolinite and montmorillonite" Alexandria, Eng.Journal. 346, 4 (D 119-121) 1995.

4- **W.K. Mekhamer**, Assaad, F.F., " Flocculation and Coagulation of Caand K-saturated Montmorillonite in the presence of Polyethylene Oxide" journal of Applied Polymer Science, 73, 659-662, 1999

5- **W.K. Mekhamer**, Assaad, F.F., "Thermodynamics of Sr-Mg vermuiclte exchange and effect of PVA on Mg release" , Thermochimica Acta 334, 33-38, 1999

6-Faiz F.Assaad, Mohamed Rashad and **W.K.Mekhamer** The diffuse part of Ca-Bentonite D.L. charges and its relation to Electrolyte and polyelectrolyte solutions, The six Arab International conference on Materials Science Nov. 2000, Alexanria Egypt.

7- **W.K. Mekhamer**, El-Ala, A.A. EL-Rafey " Clay as Filler in thermoplastic compounding" Mol.Cryst. and Liq. Cryst., 354, 13-21, 2000.

8- Olfate, M.S., **W.K. Mekhamer**, " Ca-montmorillonite clay as thermal energy storage material" Thermochimica Acta. 363, 47-54, 2000.

9- Olfate, M.S., **W.K. Mekhamer**, " Na -montmorillonite clay as thermal energy storage material" Thermochimica Acta. 370, 57-63, 2001

10- **W.K. Mekhamer**, " the clarification of turbid water by using electrochemical process", Bulletin of electrochemistry 17 (9), 391-395, 2001.

11- Omar, A.A., EL-Gamal, M.A., **W.K. Mekhamer**, Mahmoud, M.M., " The use of copper slags for making glass-ceramics" Proceedings of the international Symposium on crystallization in Glasses an liquids, July 9-12, 2000, Frankfurt /main.

12-**W.K.Mekhamer**,Mohamed A.EL-Gamal and Mohamed A.Moussa, The effect of clay minerals on the physical properties of casting mold, Journal Saudi Chemical Society, 8. 2, 2004.

13- O.M. Sadek, **W.K. Mekhemer**, F.F. Assaad and B.A. Mostafa, Electrokinetic potential of kaolinite clay in the presence of polystyrene sulfonate, J. Appl. Polym. Sci. 100 (2006), pp. 1705–1711.

14- M.H. Al-Qunaibit, **W.K. Mekhemer** and A.A. Zaghloul,, "The adsorption of Cu (II) ions on bentonite: a kinetic study" Journal of Colloid and Interface Science 283, 2 , 2005,316-321.

15-O.M. Sadek, **W.K. Mekhemer**, F.F. Assaad and B.A. Mostafa, Adsorption of poly(4-sodium styrene sulfonate) on kaolinite clays, J. Appl. Polym. Sci. 100 (2006), pp. 1712–1719

16-**W.K. Mekhamer**, characterization of clay minerals with some polymeric materials, J. Saudi Chem. Soc., Vol. 10, No. 2; pp. 239-252 (2006)

17- O.M. Sadek, **W.K. Mekhemer**, F.F. Assaad and B.A. Mostafa, Adsorption of poly(4-sodium styrene sulfonate) on kaolinite clays, J. Appl. Polym. Sci. 100 (2006), pp. 1712–1719.

18- **W.K. Mekhamer**, Characterization of clay minerals with some polymeric materials ,Journal of Saud Chemical Society , Saudi Aribia, 10, No. 2; pp. 239-252 (2006)

19-**Wafaa K. Mekhemar** and Maha H. Al-Qunaibit, Kinetics of copper (II) Adsorption by Bentonite in Mixed Solvents, J. King Saud University , Vol. 21, Science (Special issue), pp 11-20 (2009/1430H.).

20- **Mekhamer, W.K**.; Al Andis, N.; El Shabanat, M."Kinetic Study on the Sedimentation Behavior of Na-and Ca- kaolinite suspensions in the Presence of Polyethyleneimine", Journal of King Saud University – Science, 21 , 2009, P 125-132

21- O. Al-Dayel, N. Alandis, **W.K. Mekhemer**, J. Hefne, and S. Alraddadi, Zn(II) Removal Using Natural Bentonite: Thermodynamics and Kinetic Studies, J. Material Science Research India, 5(1), 2008, 25 – 36.

22- J. Hefne, **W. K. Mekhemer**, N. Alandis, O. Al-Dayel, and T. Alajyan, Kinetic and Thermodynamic Study of the Adsorption od Pb (II) from Aqueous Solution to the Natural and Treated Bentonite, International Journal of Physical Sciences, 3(11) 2008, 281- 288.

23- **W. K. Mekhemer**, J. A. Hefne\*\*, N. M. Alandis \*, O. A. Aldayel, and S. Al-Radda, Thermodynamics and kinetics of Co (II) adsorption onto natural and treated bentonite Jordan Journal of Chemistry Vol. 3 No.4, 2008, pp. 409-423.

24- N. M. Alandis , O. A. Aldayel **W. K. Mekhemer**, J. A. Hefne\*\* and A. Aldurahim , Kinetics, equilibrium and thermodynamic parameters of Cr(III) ions adsorption onto natural bentonite, International Journal of Applied Chemistry., Volume 4 Number 3 (2008) pp. 205—221.

25 - **Mekhamer, W.K**.; Al Andis, N.; El Shabanat, M."Kinetic Study on the Sedimentation Behavior of Na-and Ca- kaolinite suspensions in the Presence of Polyethyleneimine", Journal of King Saud University – Science, 21 , 2009, P 125-132

26- **Mekhemer, W.K**., Hefne, J.A., Alandis, N.M., Aldayel, O.A. and Aldurahim, A. (2009), Thermodynamic and kinetic of Cu(II) removal from water by adsorption using natural bentonite. Arab Gulf Journal of Scientific Research, 27 (3), 127-138.

27- J. A. Hefne, **W. K. Mekhemer**, N. M. Alandis , O. A. Aldayel, and T. Alajyan, Removal of silver (I) from aqueous solutions by natural bentonite, JKAU: Sci., Vol. 22 No. 1, pp: 155-176 (2010 A.D. / 1431 A.H.); DOI: 10.4197 / Sci. 22-1.11.

28- **W.K. Mekhamer**, The colloidal stability of raw bentonite deformed mechanically by ultrasound , Journal of Saudi Chemical Society 14, , 2010, 301-306

29- O. A. Aldaye , N. M. Alandis, **W. K. Mekhemer**, J. A. Hefne and S. S. Alenazi, Removal of Cesium and Strontium from aqueous solution by natural bentonite: Effect of pH, temperature and bentonite treatment, Journal of Environmental Science and Engineering,4, 2010, 1-10

30- N. M. Alandis , O. A. Aldayel , **W. K. Mekhemer** , J.A. Hefne , H. A. Jokhab , Thermodynamic and kinetic studies for the Adsorption of Fe(III) and Ni(II) ions from aqueous solution using natural bentonite, Journal of Dispersion Science and Technology, 31:1–9, 2010.

31- Layla A. Al Juhaiman, **Wafaa K.Mekhamer** and Abeer M. Al-Boajanc, Effect of poly(vinyl)pyrrolidone on the zeta potential and water loss of raw and Na-rich, Saudi bentonite, accepted for puplication in Surf. Interface Anal. 2010, 42,

32- **W. K. Mekhemer**, Stability changes of Saudi bentonite suspension due to mechanical grinding Journal of Saudi Chemical Society (2011) 15, 361–366

33- **W. K. Mekhemer**, Energy storage through adsorption and desorption of water vapour in raw Saudi bentonite Original Research Article, Arabian Journal of Chemistry, In Press, Corrected Proof, Available online 2 April 2011

34- **W. K. Mekhamer** , L.A. Al Juhaiman and A. Al-Boajan, Effect of Sulphanilamide adsorption on zeta potential and water loss of Raw and Na-activated bentonite, International Journal of Basic & Applied Sciences IJBAS-IJENS Vol:12 No:06, 2012

35- M.H. Al Qunaibit L.A. Al Juhaiman, **W.K. Mekhamer**, Particle Size Reduction of Bentonite by Mechanical Grinding: Effect on the Structure, Shape and Particle Size Distribution, puplished in the 1 st international symposium on colloids and materials, 8-11 may 2011 Amsterdam, the Netherlands

36- Layla A. Al Juhaiman , Amal Abu Mustafa, **Waffa K. Mekhamer** Polyvinyl Pyrrolidone as a Green Corrosion Inhibitor of Carbon Steel in Neutral Solutions Containing NaCl: Electrochemical and Thermodynamic Study, Int. J. Electrochem. Sci., 7 (2012) 8578 – 8596

37- Layla Abdulkareem Al juhaiman, Amal A. Abu Mustafa, **Wafaa K. Mekhamer**, : Polyvinyl pyrrolidone as a green corrosion inhibitor of carbon steel in alkaline solutions containing NaCL, Anti-Corrosion Methods and Materials, Vol.60 no.1 2013

38-**Mekhamer, W.K**., Al Juhaiman, L.A. and Al-Boajan, A.M, Effect of Sulphanilamide Adsorption on Zeta Potential and Water Loss of Raw and Na-Activated Bentonite, International Journal of Basic & Applied Sciences ,Vol:12 No:06, 2012

39-Mashael Alshabanat, Amal Al-arrash, **Waffa Mekhamer** Polystyrene/montmorillonite nanocomposites: study of the morphology and effects of sonication time on thermal stability, Journal of Nanomaterials, Volume 2013, January 2013, Article No. 9

40- Mashael Alshabanat, Amal Al-arrash, **Waffa Mekhamer** Synthesis and Thermal Properties o f Polystyrene–Clay Nanocomposit, Archives Des Sciences , Vol 66, No. 3;Mar 2013.

41- M.I. Al-Zaben, **W.K. Mekhamer**, Removal of 4-chloro-2-methyl phenoxy acetic acid pesticide using coffee wastes from aqueous solution, accepted in 5 May 2013, Arabian Journal of Chemistry.

42- Manal A. Awad, **W. K. Mekhamer**, Nada M. Merghani, Awatif A. Hendi, KhalidM. O. Ortashi, Fatimah Al-Abbas, and Nada E. Eisa, Green Synthesis, Characterization, and Antibacterial Activity of Silver/Polystyrene Nanocomposite, Journal of Nanomaterials Article ID 943821, 2015

43- Layla A. Al Juhaiman1, Dalia A. Al-Enezi, **Waffa K. Mekhamer** ,Preparation and Characterization of Polystyrene/Organoclay Nanocomposites from Raw Clay, Digest Journal of Nanomaterials and Biostructures Vol. 11, No. 1, January - March 2016, p. 105 – 114.

44- L. A. Al Juhaiman, D. A. Al-Enezi, **W. K. Mekhamer** , Polystyrene/Organoclay Nanocomposites as Anticorrosive Coatings of C-Steel, Int. J. Electrochem. Sci., 11 (2016) 5618 – 5630.

45- Ramyah Radman, Ahmed Aouissi and **Wafa Mekhamer**, Influence of Reaction Conditions on the Catalytic Oxidation of Cyclohexene with Molecular Oxygen Using a Series of Keggin-Type Polyoxometalate, ORIENTAL JOURNAL OF CHEMISTRY, 2015, Vol. 31, No. (4)

**Papers under publication:**

1- Jumaa Aseeri, **W.K.Mekhamer** , Naser Alandis, Improving the miscibility of polystyrene/poly(vinyl chloride) blends with organoclay , summited

2- Fatimah Al-Abbas a, Monirah Al-Shaikh a , **W.K. Mekhamer**, Preparation , Characterization and catalytic application of Fe-treated Clay for Synthesis of pyrimidine-2-thione. Summited

3- **W. K. Mekhemer**, O. A. Aldaye , N. M. Alandis, , J. A. Hefne and S. S. Alenazi, , Adsorption kinetics of Ag+ and Cu++ from aqueous solution at clay containing montmorillonite