

C.V.

Prof. Dr. Sulaiman Nassir Basahel

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EDUCATION

- BSc. King Saud University 1970
- MSc. Liverpool University 1976;
“Influence of solvents on photodecomposition of manganese decacarbonyl”
- Ph.D. Liverpool University. 1979;
“Moderated copolymerization and penultimate unit effect on chain transfer”

ACADEMIC POSITIONS

- Assistant professor , 1979-1986
- Associate Professor , 1986-1994
- Professor of Physical Chemistry from 1994

ADMENSTRATION

- Vice-Dean of Student affairs, 1980-1981.
- Dean of Student affairs, 1981-1984.
- Member, faculty of Science Council, 1984-1986.
- Chairman of Chemistry Department, 1986-1992.
- Chairman of the Committee for the university book 1982-1983
- Member of the Committee for the unit of Departments in the University, 1986.
- Member, Editors J.KAAU, Faculty of Science, 2003-2005.
- Member, Permanent Committee for Academic promotion, 2004-2005, 2005-2006, 2006-2007, 2007- 2008, 2008-2009, 2009-2010

- Member of the committee of scientific chairs 2008-2009 .
- Member of referees for center of Excellences 2008 .
- Member of referees of the Strategic Research 2008 .
- Member, Permanent Committee for Academic promotion Tabuk University 2008-2009, 2009-2010 .
- Chairman of the committee of Accreditation at Chemistry Department 2008-2009, 2009-2010

Research Topics:

- Synthesis and characterization of nano-structured materials
- Synthesis and characterization of zeolites and zeolite membranes
- Synthesis and characterization of clays
- Selective catalytic reduction of nitrogen oxides
- Oxidation catalysis
- Green chemistry
- Photocatalysis

Current Academic and Industrial Collaborators:

National

- King Abdulaziz City for Science and Technology (KACST)
- Saudi Basic Industries Corporation (SABIC)

International

- National Research Centre, Dokki, Cairo, Egypt
- BioNano consulting office, London, UK
- Imperial College, London, UK
- University College London, UK
- Utrecht University, Utrecht, The Netherlands
- Friedrich-Alexander Erlangen-Nuremberg University, Germany
- National Centre for Nano-Structured Materials, South Africa

Research Projects:

Previous projects

- Studies on Chemical effects of ^{60}Co Gamma irradiation in condensed systems.
- Gamma Radiation effects on reactivity in the System Graphite- Iron (III) oxide
- Studies on the Corrosion inhibition of Aluminum in HCl solution.
- A study of The State Reaction in Crystalline Mixtures Metal Carbonate – Metal oxide

- Polymeric Complexation of Vinyl Phthalidene Anthranilic Acid (VPHA) with zinc, Lead, and Copper Chlorides. funded by KAU).
- Synthesis and Characterization of Polymer complexes of 5- vinylsalicylidene Anthranilic acid (VSA) with some Transition Metals Ions.
- Synthesis and thermal behaviour studies of some new polymers and their metal complexes and its application as removal of heavy metal ions from aqueous.
- Effect of some organic surfactants on electrodeposition of Nickel from Nickel chloride solutions.
- Preparation of some derivatives Polyalkylenepolyamin Oligomers
- The Relation between the Structure and the Properties of Some New
- Heterocyclic Polyamides Containing Various Proportions.
- Modification of surface and catalytic properties of Cu-nano-particle catalysts used in methanol synthesis and Steam Reforming; SABIC, Saudi Arabia (2006).
- Kinetics of thermal degradation and surface catalytic studies of a novel hopcalite system; SABIC, Saudi Arabia (2007).
- Preparation and physicochemical studies of nano structural cobalt/manganese based hydrotalcite catalysts; SABIC (2008).
- Remediation of persistent organic pollution using chemically modified carbon nanotubes; dsr, KAU (2008)
- Preparation, characterization and surface acidity studies on heteropoly acid catalysts; MS 10-14; SABIC (2009)
- Preparation and characterization of Zirconium Modified Nano Zinc-Cobaltite Spinel for N₂O Abatement; 3-37-429; dsr, KAU (2009)
- Microwave Assisted Eco-Friendly Rapid Synthesis of Pyrazolo [1,5-a] Pyrimidine Derivatives using Mg/Al-Hydrotalcite Solid Base Catalysts; MS 11/3; SABIC, KAU (2010)
- The use of KSA Kaolin in preparation of catalyst used in hydrogenation of p-nitrophenol, dsr, KAU (2010)
- Preparation and characterization of nanocomposite metal oxide supported zirconia catalysts for abatement of environmental pollutant NO_x gases; 8-NAN184-3, dsr, KAU (2010-2011)

Current projects

- Nanocatalysts for wastewater treatment; T-81/429; KAU/ BNC-London (2009-2011).
- Nanocatalysts for the synthesis of fine chemicals; T-80/429; KAU/ BNC-London (2009-2011).
- New Catalytic Routes and Porous Catalyst Materials for the Synthesis of Light Olefins from Alcohols derived from Natural Gas, Coal and Biomass; KAU UU-The Netherlands (2011-2014).
- Acidic and/or Basic Zeolite-Membranes for Separation and Catalytic Processes; D-002/432; KAU/FAU-Erlangen-Nuremberg Germany (2012-2014).
- Development of novel photocatalysts using a combinatorial chemistry approach; D-005/432; KAU/ BNC-London (2011-2014).
- Investigations into the development and application of supported LDH materials; D-005/432; KAU/ BNC-London (2011-2014).

Human Capital Development:

PhD/MSc Students Graduated Under My Direct Supervision

- Effects of Macro-ions on The Apparent PK and The Spectral Behavior of Some PH - indicator 1983.
- Theoretical and Spectroscopic investigation of The electronic Structure of imidazolides 1984
- Studies on The effect of Co - Gamma irradiation on The Thermal Decomposition of Potassium Nickel Oxalate Hexahydrate 1989.
- Thermal Decomposition and Transformation Reactions in Some Solid Tartarates (2008)
- Mr Abdulrahman Babin (MSc Student, 2004-2005, Graduated 2005, King Abdulaziz University): Studies of The Physicochemical, Surface and Catalytic Properties of Double Oxide System Cu- Mn-O. Currently PhD student.
- Mrs Huda K. Sherbini (MSc Student, 2009-2011, Graduated 2011, King Abdulaziz University): Preparation and characterization of nanoporous zeolites: currently PhD student under my direct supervision.
- Dr Ebtisam Al-Sabaan (PhD student, 2009-2011, Graduated 2012, KAU): A study of nanosized layered hydrotalcites for fine chemical applications: Currently Assistant Professor (Chemistry Department, KAU)
- Mrs Asmaa Medkhaly (MSc student, 2011 to date): Preparation of perovskite-type oxide as catalyst in selective catalytic reduction of NO_x

Experience Teaching

A) Under Graduate

- 1- General Chemistry ,(Chem202)
- 2- Physical Chemistry, (Chem.241)
- 3- Solid State Chemistry and surface, (Chem.345)
- 4- Kinetic Chemistry, (Chem.344)
- 5- Polymer Chemistry, (Chem. 448)

B) Post Graduate

- 1- Bio-Physical , (Chem.648)
- 2- Special Topics in Physical Chemistry,(Chem.696)
- 3- Seminar , (Chem.695)
- 4- Computational Chemistry (698)

Books

- 1-Principle of Nuclear Radiation Chemistry, (Arabic)
- 2- Principle of Thermodynamic Chemistry , (Arabic)

PUBLISHED PAPERS

- 1- C.H. Bamford and S.N.Basahel, "Moderated Copolymerization.part2: Transfer constant of Styryl Radicals towards Carbon Tetrabromide: A penultimate Unit Effect in Chain Transfer", J.C.S.Faraday 1, 74, 1020 (1978).
- 2- C.H. Bamford and S.N.Basahel , "Moderated Copolymerization, Part 3: Concentration Changes in copolymerization with Chain Trasfer: General Equations with special Reference to Moderated Copolymerization", Polymer 19, (1978) 943.
- 3- C.H. Bamford and S.N.Basahel , "Moderated Copolymerization,Part 4: Penultimate Unit Effect in Chain-Transfer : System Styrene/Methyl Acrylate/1-Butane Thoil", J. C. S. Faraday 1, 74, (1978) 1020.
- 4- C.H. Bamford and S.N.Basahel , "Moderated Copolymerization, Part 5: Penultimate Unit Effect in Chain-Transfer: System Styrene/Methyl Acrylate/1-Butane Thoil and Some General Consideration", J.C.Faraday 1.76,107-112 (1980).
- 5- M.M.Emara , A. O. Baghlaf, S. N. Basahel and Y. M. Al-Sausi, "Thermodynamics of Ionic Association in Aqueous Copper Acetate Solution Using Spectrophotometric of Method", J. Indian Chem. Soc. V111,583-585 (1981)
- 6- El-H. M. Diefallah ,S. N. Basahel , M.S.El-Meligy and Mahfouz, " Chemical Effects of ^{51}Cr Neutron Capture Recoil and Annealing in $\text{K}_3\text{Cr}(\text{CN})_6\text{-K}_3\text{Fe}(\text{CN})_6$ Mixed Crystals", Radiochimica Acta 37,17 (1984)

- 7- El-H. M. Diefallah, S. N. Basahel, A. Y. Obaid and R. H. Abu-Eitah, "Radiolysis of Methyl Iodide- Carbon Tetrachloride Liquid Solutions", Rad. Phys. Chem. 27(5), 379 (1986)
- 8- S. N. Basahel , A. O. Baghlaf, El-H.M. Diefallah, R. M. Mahfouz and J.G.Kay, "Thermal Annealing of Cobalt Neutron Capture Recoil in Pure Mixed Crystals", Ind. J. Chem. 25, 215-218 (1986)
- 9- R. Hilal , S. N. Basahel and S. Aziz, "On the Electronic Structure of Azolides. Part II. Electronic Absorption Spectra of N-Acylimidazol. AMO Approach to Cross-and Linear-Conjugation", Appl. Spect., 40 (4), 556 (1986).
- 10- S.A. Marei, S. N. Basahel and A.B.Ramatallah , "Ammonium Ion Exchange Equilibrium on Potassium Zinc Hexacyanoferrate (II) , $K_2Zn_3[Fe(CN)_6]_2$ ", J.Rad..Nucl. Chem. Let. 104(4) 217-222 (1986)
- 11- El-H.M. Diefallah, S. N. Basahel, A. Y. Obaid and R.H. Abu-Eitah,, "Kinetic Analysis of Thermal Decomposition Reactions.I.Thermal Decomposition of Potassium Bromate", Thermochem. Acta, 111,49-56 (1987)
- 12- A. Y. Obiad , S. N. Basahel, EL-H. M. Diefallah and R.H.Abu-eitah, "Spectral Investigation, of the Effects of ^{60}Co -Gamma Irradiations on Iodotheronines and Iodotyrosines" , Appl. Spec.,41 (1) ,74-79 (1987)
- 13- El-H.M.Diefallah, S. N. Basahel, A. Y.Obaid and R. H. Eitah, "Kinetic Analysis of Thermal Decomposition Reactions.II. Influence of Radiation on Thermal Decomposition Of Potassium Bromate" , J.Rad. Nucl. Chem. 109 (1) ,177(1987).
- 14- S. N. Basahel , A. Y. Obaid and El-H.M.Diefallah, "Kinetic Analysis of Thermal Decomposition Reactions. III. Irradiation Effects on the Thermal Decomposition of Calcium Oxalate Monohydrate", Radiat. Phys. Chem. 29(6) 447 (1987).
- 15- S. A. Marie, S. N. Basahel , A. El-Meligy and S. O. Baraboud, "TheUse of Melamine as an Electrocapillary – Active Substance and Polarographic Maximum Suppressor" , Surf. and Coat. Technol., 35, 11-20 (1988).
- 16- A. Y. Obaid, S. N. Basahel,El-H. M.Diefallah and R. H. Abu-Eitah, "Molecular Orbital Treatment of Some Amino Acids", Bull. Chem. Soc. Japan, 61, 2609-2613 (1988).
- 17- A. Y. Obaid S. N. Basahel and El-H.M. Diefallah, "Radiolysis of Iodotyrosines in Aqueous-Ethanol Solutions", J. Rad. Nucl. Chem., Artcils, 139 (2), 355-365 (1990).
- 18- El-H. M. Diefallah, S. N. Basahel , M.M. El-Ass and E.A. Al-Sabban, "Kinetic Analysis of Thermal Decomposition Reactions, Part 5. Gamma Irradiation Effect on the Kinetics of the Decomposition of Potassium Nickel Oxalate", Thermochemica Acta, 184, 141-150 (1991).

- 19- S. N. Basahel and El-H. M. Diefallah, "Catalytic Effects of Dopant Metal Oxides on the Reduction of Hematite by Carbo in the Graphite-Iron(III) Oxide system", *Ind. J. Chem.* 30A, 506-508 (1991).
- 20- S. N. Basahel , El-H. M. Diefallah, M. M. El-Fass and E. A. Al-Sabban, "Radiolysis of Crystalline Nickel Oxalates", *Radiat.Phys.* 38 (60) 561-563 (1991).
- 21- S. N. Basahel and El-H. M. Diefallah, "Kinetic Analysis of Thermal Decomposition Reactions.VII. Effect of Radiation and Doping on the Thermal Decomposition of $\text{BaCO}_3\text{-TiO}_2$ and $\text{SrCO}_3\text{-TiO}_2$ Crystalline Mixture", *Canad. J. Chem.* 70, 888-893 (1992).
- 22- El-H.M. Diefallah, A. A. El-Bellihi, S. N. Basahel , M.Abdel Wahab and Z.A. Omran, "Kinetic Analysis of Thermal Decomposition Reactions.Part8. Radiation Effect on the Thermal Decomposition of Ammonium Oxalate Monohydrate", *Thermochimica Acta* 230, 143-153 (1993).
- 23- S. N. Basahel M.M. El-Fass, A.A. El-bellihi, E.A.Al-Sabban and EL-H.M.Diefallah, "Gamma Irradiation Effects on the Reduction of Hematite to Iron in the Graphite-Iron(III) Oxide System", *J. Thermal Anaysis* 39, 87-95 (1993).
- 24- S. N. Basahel M. M. El-Fass, A. A. El-bellihi, E.A. Al-Sabban and El-H.M.Diefallah, "Gamma Irradiation Effects on the Kinetics of the Non-Isothermal Decomposition of Potassium Nickel Oxalate", *Radiat.Phys.Chem.* 44 (6), 583-587 (1994)
- 25- S. N. Basahel, A.A.EL-Bellihi, M. Gabal and El-H.M. Diefallah, "Thermal Decomposition of Iron(III) Oxalate-Magnesiou Oxalate Mixtures", *Thermochimica Acta* 256, 339-346 (1995).
- 26- E.H. El-Mossalamy, I.S Ahmed and S.N. Basahel," Synthesis and Estimation of some Transition Metal Ion complexes with Salicylanilide derivatives and their applications" *J. Bull. of electrochem.* ,vol.21,No.2,pp.59-64 (2005).
- 27- Radiation Polymerization of 4- N-Acryloylamidobenzonitrile: Zince and Copper Complexess.; E.H.El-Mossalamy,Shaeel A. Al-Thabaiti, A.Y.Obaid ,A.O. Al-Youbi And S.N. Basahel; *Monatsheft fur Chem.*; 138,853-857 (2007).
- 28- E.H.El-Mossalamy ,Shaeel A.Al – Thabaiti,A.Y.Obaid ,S.N.Basahel; and A.O.Al-Youbi; *Synthetic Route and Thermal Kinetic Studies of Some Organotin Polymers; Sensing in Electroanalysis ; Vol. 4,pp.209-217 (2009).*
- 29- E. H. El-Mossalamy, F. M. Al-Nowaiser, S .A. Al-Thabaiti, S.N.Basahel and A.Y.Obaid Thermal studies and Corrosion Inhibitor on Oligomer Semicarbazide-Phethalic acid (OSCPA) with some Transition Metal Ions; *Portugaliae Electrochimica Acta (2009).*

30. S. N. Basahel , E.H. El-Mossalamy , M. Mokhtar; "Preparation and physicochemical characterization of thermally stable nano-sized hopcalite catalysts", *Int. J. Nanomanufacturing*, Vol. 4, Nos. 1/2/3/4, 2009
31. M.Mokhtar, S.N.Basahel, S.A.A Thabaiti ; "Modification of Surface and Catalytic Properties of Cu nanostructure Catalysts used in Methanol Synthesis and Steam Reforming", *Int. J. Nanoparticles* Vol. 2, Nos. 1/2/3/4/5/6, 2009
32. S. N. Basahel, S.A. Al-thabaiti, A.Y.Obaid, M.Mokhtar and M.Abdelsalam; "Chemical Modification of Multi-Walled Carbon Nanotubes Using Different Oxidizing Agents: Optimization and Characterization", *Int. J. Nanoparticles*, Vol. 2, Nos. 1/2/3/4/5/6, 2009
33. M. Mokhtar, S. N. Basahel, Y.O. Al-Angary; "Nanosized spinel oxide catalysts for CO-oxidation prepared via CoMnMgAl quaternary hydrotalcite route", *Journal of Alloys and Compounds* 493 (2010) 376–384
34. S. N. Basahel, I. H. Abd El-Maksod, B. M. Abu-Zeid, M. Mokhtar; "Effect of Zr⁴⁺ doping on the stabilization of ZnCo-mixed oxide spinel system and its catalytic activity towards N₂O decomposition", *Journal of Alloys and Compounds* 493 (2010) 630–635
35. M. Abdel Salam, M. Mokhtar, S.N. Basahel, S.A. Al-Thabaiti, A.Y. Obaid, "Removal of chlorophenol from aqueous solutions by multi-walled carbon nanotubes: Kinetic and thermodynamic studies", *J. Alloys and Compounds*, 500 (2010) 87-92
36. M. A. Malik, S.N. Basahel, A. Y. Obaid, Z. Khan; "Oxidation of tyrosine by permanganate in presence of cetyltrimethylammonium bromide"; *Colloids and Surfaces B: Biointerfaces* 76 (2010) 346-353.
37. Maurice C. D. Mourad, Mohamed Mokhtar, Matthew G. Tucker, Emma R. Barney, Ronald I. Smith, Abdulrahman O. Alyoubi, Sulaiman N. Basahel, Milo S. P. Shaffer and Neal T. Skipper, "Activation and local structural stability during the thermal decomposition of Mg/Al-hydrotalcite by total neutron scattering", *J. Materials Chemistry*, 21 (2011) 15479–15485.
38. Mohamed Mokhtar, Tamer S. Saleh, Sulaiman N. Basahel, "Mg-Al Hydrotalcites as efficient catalysts for aza-Michael addition reaction: A green protocol", *Journal of Molecular Catalysis A: Chemical* 353– 354 (2012) 122– 131
39. Ainara Garcia-Gallastegui, Dianan Iruretagoyena, Mohamed Mokhtar, Abdullah M. Asiri, Sulaiman N. Basahel, Shael A. Al-Thabaiti, Abdulrahman O. Alyoubi, David Chadwick, Milo S. P. Shaffer, "Preparation of Layered Double Hydroxide/Carbon Nanotubes Hybrids for CO₂ capture applications", *J. Materials Chemistry*, 22, (2012) 13932– 1394 [Featured in journal front cover page]
40. Sulaiman N. Basahel, Tark T. Ali, K. Narasimha Rao, A. A. Bagabas, Mohamed Mokhtar, "Effect of iron oxide loading on the phase transformation and physicochemical properties of nanosized mesoporous ZrO₂ ", *Materials Research Bulletin*, 47 (2012) 3463-3472

41. Mohamed Mokhtar M. Mostafa, K. Narasimha Rao, Huda S. Harun, **Sulaiman N. Basahel**, Islam H. Abd El-Maksod, "Synthesis and characterization of partially crystalline nano sized ZSM-5 zeolites", *Ceramics International*, 39 (2013) 683-689.
42. M.Mokhtar, **S.B.Basahel**, T.T.Ali, Effect of Synthesis Methods for Mesoporous Zirconia on Its Structural and Textural Properties, *Journal for Materials Science*, 48 (2013) 2705-2713.
43. T. S.Saleh, N. K.Rao, N. S.Ahmed, **S. N. Basahel**, S. A. Al-Thabaiti, & M.Mokhtar, "Mg-Al hydrotalcite as an efficient catalyst for microwave assisted regioselective 1,3-dipolar cycloaddition of nitrilimines with the enamionone derivatives: A green protocol, *Journal of Molecular Catalysis A: Chemical*, 367(2013) 12-22.
44. K.Narasimharao, M. Mokhtar, **S.N.Basahel**, S.Al-Thabaiti, Synthesis, characterization and catalytic activity of nitrated magnesium silicate catalysts, *Journal of Materials Science*,48 (2013) 4274-4283.
45. K.Narasimharao, E.Al-Sabban,, T.S.Saleh, A.G.Gallastegui, A.C.Sanfiz, **S.Basahel**, S.Al-Thabaiti, A.A.Obaid, **M.Mokhtar**, Microwave assisted efficient protocol for the classic Ullman homocoupling reaction using Cu-MG-Al hydrotalcite catalysts, *Journal of Molecular Catalysis A: Chemical*, 379 (2013) 152-162.
46. Qian,Q., Ruiz-Martinez,J., Mokhtar,M., Asiri,A.M., Al-Thabaiti,S.A., **Basahel,S.N.**, Van der Bij, H.E, Kornatowski,J., Weckhuysen,B.M. Single-Particle Spectroscopy on Large SAPO-34 Crystals at Work: Mrthanol-to-Olefin versus Ethanol-to-Olefin Processes, *Chem. Eur. J.*,19 (2013) 11204-11215.
47. Garcia Gallastegui, Ainara; Iruretagoyena, Diana; Gouvea, Veronica; Mokhtar, Mohamed; Asiri, Abdullah; **Basahel, Sulaiman**; Al-Thabaiti, Shaeel; Alyoubi, Abdulrahman; Chadwick, David; Shaffer, Milo, "Graphene Oxide as support for Layered Double Hydroxides: enhancing the CO₂ sorption capacity", *Chemistry of Materials* (in press)
48. Tamer Saleh , Katabathini Narasimharao, Nesreen S. Ahmed, **Sulaiman N. Basahel**, Shaeel A. Al- Thabaiti, Mohamed Mokhtar , " Mg-Al hydrotalcite as an efficient catalyst for microwave assisted regioselective 1,3-dipolar cycloaddition of nitrilimines with the enamionone derivatives: A green protocol", *J. Molecular Catalysis A: Chemical* (in press)
49. M.M.Mokhtar, **S.N.Basahel**, T.T.Ali, Ethanol to hydrocarbons using silver substituted polyoxometalates: physicochemical and catalytic study, *Journal of Industrial and Engineering Chemistry*, 20 (**2014**) 46-53.
50. K.Narasimharao,M.Ahmed,Malik, M.Mokhtar, **S.Basahel**, S.Al-Thabaiti, Iron oxide sulfated TiO₂ nanotube catalysts for NO reduction with propane, *Ceramics International*, 40 (**2014**) 4039-4053.

CONFERENCES & SEMINARS

1. M.A. Ashy, M.M.Emara, S.N.Basahel, N.A.Farid and R.Ali Physico-Chemical Studies of Aqueous Nanionic Surfactans , Arab Chemical Research Project Seminar, Chemistry of Petroleum Products, Faculty of Science, King Abdul-Aziz University , 25-27 March 1980.
2. S. N. Basahel , M.A. F.Ez EL-Arab, A.H. Abul-Gasem and M.M. Emara, Effect of Added Macro-Ions on the Apparent pK and Spectral Behavior of Some pH Indicators .I. Cationic pH Indicators. The First Conference of Applied Science, Zagazig University, 30 March-April 1st. 1985.
3. S. N. Basahel, A. H. Abul-Gasem, M. A. F. Ez El-Arab, and M.M.Emara, Effect of Added Macro-Ionic on the Apparent pK and Spectral Behavior of Some pH Indicators,II. Cationic pH Indicators. The First Conference Science, Zgzig University, 30 March-April 1st. 1985.
4. El-H.M. Diefallah, S.N.Basahel and A. Y. Obaid, ⁶⁰Co-Gamma Radiation Effects on the Thermal Decomposition of Potassium Bromate, Second SCS National Meeting, Riyadh, Saudi Arabia , March 1987.
5. S. N. Basahel, A. Y. Obaid and El-h. M. Diefallah , ⁶⁰Co-Gamma Radiation Effect on the Thermal Decomposition of Calcium Oxelate Monohydrate, Second SCS National Meeting, Riyadh, Saudi Arabia, March 1987.
6. A. Y. Obaid, S. N. Basahel and El-H.M.Diefallah, ⁶⁰Co-Gammaa Irradiation Effects Iodotyrosines, Iodothyronines and Ammonium 3,5-Diiodo-4-pyridone-N-actate in the Solid State, Second SCS National Meeting, Riyadh, Saudi Arabia, March 1987.
7. A. A. Ahmed , S. N. Basahel and R. M. Khalil , Inhibition of the Acid Corrosion of Aluminium with Some Morpholine and Thiosemicarbazide Derivatives ,Anti-Corrosion, 4-8 August, 1988.
8. S. N. Basahel and El-H. M. Diefallah, ⁶⁰Co-Gamma Irradiation Effects on Reactivity in the System Graphite-Iron(III)Oxide, Third SCS National Meeting, Dhran, Saudi Arabia, 12-14 March, 1989.
9. El-H. M. Diefallah and S. N. Basahel, Catalytic Effects Of Dopant Metals on Thermal Reactions In the Graphite-Iron(III) Oxide System,Third SCS National Meeting, Dhran, Saudi Arabia, 12-14 March, 1989.
10. A. Y. Obaid, S. N. Basahel and El-H. M. Diefallah, Radiolysis of Iodotyrosines in Aqueous-Ethanol Solutions, Third SCS National Meeting, Dhran, Saudi Arabia, 12-14March, 1989.
11. S. N. Bsahel and El-H. M. Diefellah, Effect of Radiation and Doping on the Therkal Decomposition Of BaCO₃-TiO₂ Crystalline Mixtures, Third Arab Int. Conf. on Material Science, Alexandria, Egypt, 26-29th. Sept. 1992.

12. A. A. El-Bellihi, S. N. Basahel< M. A. Mousa and El-H. M. Diefallah, Kinetic Analysis of Thermal Decomposition Reactions. VIII. Radiation Effects on the Thermal Gasification of Ammonium Oxalate Monohydrate, Third Arab Int. Conf. on Material Science, Alexandria, Egypt, 26-30th. Sept. 1992.
13. S. N. Basahel, M. M. El-Fass, A. A. El-Bellihi, E. A. Al-Sabban and El-H.M. Diefallah, Gamma Irradiation Effects on the Kinetics of the Non-Isothermal Decomposition of Potassium Nickel Oxalate, Paper 2B-03 presented at the Egyptian Chemical Society Conference , Cairo, Egypt , April 10-13, 1993.
14. El-H.M. Diefallah S. N. Basahel, A. A. El-Bellihi and R. M. Issa, Thermal Decomposition of $(\text{NH}_4)_3[\text{Fe}(\text{C}_2\text{O}_4)_3] \cdot 3\text{H}_2\text{O}$ in Air, Paper Presented at the Egyptian-German Spring School and Conference on Mossbauer Spectroscopy and Its Applications, Cairo, Egypt 27-31 March, 1993.
15. S.N. Basahel, A.A. El-Bellihi and M.A. Gabal, "Thermal Decomposition of Calcium formate" presented at 7th. International conference in chemistry and its role in development 14-17 April (2003) Mansoura University , Mansoura, Egypt.
16. S.N. Basahel , A.O. Alyoubi, A.A. El- Bellihi, A.A. Samarkandy, S.A. Al-Thabaiti, F.A. Al-Newaiser and M.A.Gabal , "Thermal Decomposition of Zinc Acetate Dihydrate" J. Thermal calorimetry in press (2004)
17. S.N. Basahel,"Potentiality, Thermodynamic and Thermal studies on Phthalimide polymer complexes with some Metal Ions" presented at the 3ed. Biannual conference on chemistry Cairo 1-4 March (2004) Faculty of Science University of Cairo, Egypt.
18. S. N. Basahel , E. H. El-Mossalamy , M. Mokhtar; "Preparation and physicochemical characterization of thermally stable nano-sized hopcalite catalysts" ***The International Conference on Nanotechnology*** (ICON008) 17 – 19 June 2008, King Abdul Aziz University, Jeddah, Kingdom of Saudi Arabia.
19. M. Mokhtar, S.N.Basahel, S.A.A Thabaiti ; "Modification of Surface and Catalytic Properties of Cu nanostructure Catalysts used in Methanol Synthesis and Steam Reforming" ***The International Conference on Nanotechnology*** (ICON008) 17 – 19 June 2008, King Abdul Aziz University, Jeddah, Kingdom of Saudi Arabia.
20. S. N. Basahel, S.A. Al-thabaiti, A.Y.Obaid, M.Mokhtar and M.Abdelsalam; "Chemical Modification of Multi-Walled Carbon Nanotubes Using Different Oxidizing Agents: Optimization and Characterization" ***The International Conference on Nanotechnology*** (ICON008) 17 – 19 June 2008, King Abdul Aziz University, Jeddah, Kingdom of Saudi Arabia.
21. Sulaiman N. Basahel, Mohamed Abdel Salam, Mohamed Mokhtar, Shaeel A. Al Thabaiti, and Abdullah. Y. Obaid, Kinetic and thermodynamic studies of 2,3-dichlorophenol removal by pristine multi-walled carbon nanotubes from aqueous solution, ***The Taibah International Chemistry Conference*** (TICC-2009) – Al-Madinah Al-Munawwarah March 23 -25, 2009, KSA.

22. S. N. Basahel, M. Mokhtar, T. T. Ali, A. Bagabas, I. H. Abd El Maksod, “Nanosized Mesoporous Fe / Zr Composite Oxide Catalysts I. Preparation and Characterization”, ***International Workshop on Advanced Materials (IWAM 2010)*** Ras Al Khaimah 21-23 February, 2010, UAE.
23. Ebtissam Al-Sabban , S. N. Basahel, M. Mokhtar, “Nano sized Nickel and Copper Layered Hydrotalcite Catalysts For the Sonochemical Synthesis of Pyrazolo [1,5-a] Pyrimidine Derivative: I. Structural Characterization”, ***III International Workshop Layered Materials: Design and Function, 14th – 15th May 2010 Bochum, Germany.***
24. M. Mokhtar , S. N. Basahel, I. H. Abd-Elmaksod, T.S. Saleh, “ Nanosized Mg/Al-Hydrotalcites as Catalysts using Microwave Assisted Ecofriendly for rapid Synthesis of Pyrazolo [1,5 a] Pyrimidine Derivatives” , ***6th Nanoscience and Nanotechnology Conference*** , 15-18 June 2010, Izmir (IYTE), Turkey.