

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ  
**Curriculum Vitae**



الدكتور صلحي فيصل الشحاتيت  
**Dr. Solhe F. Alshahateet**

***Academic Rank:***

Assistant Professor of Chemistry

***Current Position:***

Assistant Professor of Chemistry, Chemistry Department, Mutah University, Karak-Jordan

***Citizenship:***

Jordan and Australia (Dual citizen)  
Permanent residence of Singapore

***Current Address (permanent):***

Department of Chemistry  
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## *Education:*

- 1998-2003** **Ph.D.** in Physical Organic Chemistry (supervisor: Prof. Roger Bishop, Synthesis and structure of new organic inclusion compounds), The University of New South Wales, Sydney-Australia
- 1991-1993** **M.Sc.** in Organic Chemistry (supervisors: Prof. Sultan Abu-Orabi and Prof. Ibrahim Jibril, 1,3-dipolar cycloaddition reactions of substituted benzyl azides), Yarmouk University, Irbid-Jordan
- 1987-1991** **B.Sc.** in Chemistry, Yarmouk University, Irbid-Jordan

## *Awards and Scholarships:*

- 2003-2005** **Postdoctoral Fellowship**, ICES & A\*STAR, Singapore
- 2002-2003** **Postdoctoral Fellowship**, The University of New South Wales, Sydney-Australia
- 1998-2002** **Postgraduate Scholarship**, Australian Research Council, Australia
- 1991-1993** **Graduate Scholarship**, Yarmouk University, Jordan
- 1987-1991** **Undergraduate Scholarship**, Ministry of Scientific Research and Higher Education, Jordan

## *Employment:*

- 2007-present** **Assistant Professor**, Mutah University, Jordan
- 2009-2010** **Chairman of Chemistry Department**, Mutah University, Jordan.
- 2007-2009** **Senior Technical Consultant**, PQ Global Ltd, Sheffield, England.
- 2005-present** **Senior Technical Advisor**, International Cement Traders, Tampa, FL, USA.
- 2005-2007** **Assistant Professor**, Taibah University, Saudi Arabia
- 2003-2005** **Research Fellow**, ICES & A\*STAR, Singapore
- 2002-2003** **Research Assistant**, The University of New South Wales, Australia
- 1998-2002** **Teaching Assistant**, The University of New South Wales, Australia
- 1994-1998** **Teaching Assistant**, Mutah University, Jordan
- 1993-1994** **Research Assistant**, Yarmouk University, Jordan & **Part-time lecturer**, Jordan University of Science and Technology, Jordan
- 1991-1993** **Part-time Teaching Assistant**, Yarmouk University, Jordan.

## ***Visitor Appointments and Training Courses:***

<b>May 2009</b>	<b>Moodle Authoring (Content Developing)</b> , Mutah University, Jordan
<b>May 2009</b>	<b>MUCDL (Mutah University Computer Driving License)</b> , Mutah University, Jordan.
<b>June-August 2006</b> <b>July-Aug. 2005</b>	<b>Visiting Scientist</b> , ICES & A*STAR, Singapore <b>Extensive Training Course</b> on the X-ray single crystal analysis, Rigaku Applications Laboratory, The North American Headquarters of Rigaku, Inc. in the Woodlands, Texas, USA
<b>Dec. 2004-Feb. 2005</b>	<b>Visiting Scientist</b> , Department of Chemistry, the University of South Florida, USA
<b>Sep.-Nov. 2004</b>	<b>Visiting Research Fellow</b> , The University of New South Wales, Australia

## ***Teaching Experience and Students Supervision:***

**2007-present**                      **Assistant Professor**, Department of Chemistry, Mutah University, Jordan, teaching the following courses:

1. Chem. 101 (General Chemistry, Undergraduate)
2. Chem. 105 (General Chemistry Lab. I, Undergraduate)
3. Chem. 106 (General Chemistry Lab. II, Undergraduate)
4. Chem. 108 (Organic Chemistry for Medicine Students, Undergraduate)
5. Chem. 232 (Organic Chemistry II, Undergraduate)
6. Chem. 233 (Organic Chemistry for Biology, Undergraduate)
7. Chem. 235 (Organic Chemistry Lab. I, Undergraduate)
8. Chem. 236 (Organic Chemistry Lab. II, Undergraduate)
9. Chem. 333 (Organic Chemistry III, Undergraduate)
10. Chem. 433 (Selected Topics in Organic Chemistry, Undergraduate)
11. Chem. 435 (Qualitative Analytical Organic Chemistry, Undergraduate)
12. Chem. 391 (Chemical Literature, Undergraduate)
13. Chem. 499 (Graduation Project, Undergraduate)
14. Chem. 731 (Advanced Organic Chemistry, Graduate)

**2005-2007**                      **Assistant Professor**, Taibah University, Saudi Arabia, taught the following graduate and undergraduate courses:

1. Chem. 612 (Advanced Organic Chemistry, Graduate)
2. Chem. 695 (Graduate Seminar, Graduate)
3. Chem. 425 (Organometallic Chemistry, Undergraduate)
4. Chem. 491 (Graduation Research Project, Undergraduate)
5. Chem. 426 (Selected Topics in Inorganic Chemistry, Undergraduate)
6. Chem. 439 (Applied Organic Chemistry, Undergraduate)

7. Chem. 323 (Experiments and Techniques in Synthetic Inorganic Chemistry, Undergraduate)
8. Chem. 211 (Qualitative Analysis, Undergraduate)
9. Chem. 225 (Inorganic Chemistry, Undergraduate)
10. Chem. 221 (Chemistry of Non-transition Metals, Undergraduate)
11. Chem. 231 (Organic Chemistry, Undergraduate)
12. Chem. 211 (General Organic Chemistry, Undergraduate)

- 2003-2006**                      **Ph.D. Supervisor** for a chemistry student from Department of Chemistry, National University of Singapore, Singapore (**Huang Jing Yan**, thesis title: Binding of Chemical Functionalities onto Silicon Surfaces).
- 1991-2002**                      **Teaching Assistant**, teaching several practical chemistry courses in several countries and universities. These courses include general, organic, inorganic, analytical and physical chemistry

### ***Membership in M.Sc. Thesis Examination Committees:***

- **Ramia Zuhair Al-Bakain**  
Thesis title “*Indoor and Outdoor Heavy Metal Evaluation in Nursery Schools and Kindergartens in Amman, Jordan*” Department of Chemistry, Mutah University, Jordan, **December 2007**.
- **Maisa Khalil Abu Al-Homoss**  
Thesis title “*Synthesis of New Podand Derivatives and Study of their Complexation with Heavy Metals*” Department of Chemistry, Mutah University, Jordan, **May 2008**.
- **Bady Salamah Al-Majali**  
Thesis title “*Reactions of Symmetrical Substituted Heteroaromatic Aldazine and Ketazines with Dimethylacetylenedicarboxylate (DMAD)*” Department of Chemistry, Mutah University, Jordan, **August 2008**
- **Omar El-Ghanem**  
Thesis title “*Synthesis and Characterization of thieno[2,3-b]indoles and related derivatives*” Department of Chemistry, Mutah University, Jordan, **December 2008**.
- **Wael El-Btoosh**  
Thesis title “*Synthesis, Characterization and Supramolecularity of Schiff base ligands. Transition metal complexes of Schiff base ligands*” Department of Chemistry, Mutah University, Jordan, **March 2009**.
- **Khalid Hejazeen**  
Thesis title “*Synthesis and Characterization of thieno[2,3-b]indoles and related derivatives*” Department of Chemistry, Mutah University, Jordan, **May 2009**.

- **Haneen Majed**  
Thesis title “*Self-assembly approaches in the synthesis of supramolecular coordination polymer*” Department of Chemistry, Mutah University, Jordan, December 2009.

## ***External Recognition***

- ***Journals Referee:***

I have been working as a referee since 2003 for the following reputed international journals:

- *Journal of Crystal Growth and Design* (CGD, Publication of the American Chemical Society, ACS)
- *Journal of Chemical Communication* (ChemComm., Publication of the Royal Chemical Society, RCS)
- *Journal of Crystal Engineering Communication* (CEC, Publication of the Royal Chemical Society, RCS)
- *Journal of Physical Chemistry Chemical Physics* (PCCP, Publication of the Royal Chemical Society, RCS)
- *New Journal of Chemistry* (NJC, Publication of the Royal Chemical Society, RCS)
- *Arabian Journal of Chemistry*
- *International Journal of Physical Sciences*  
([www.academicjournals.org/IJPS](http://www.academicjournals.org/IJPS))
- *Tetrahedron Letters* (Publication of Elsevier)
- *Environmental Technology* (Publication of Taylor & Francis)

- ***Jordanian Ministry of Education:***

Referee and reviewer for high school chemistry text books during the academic year 2010-2011.

- ***Biographical Centre:***

- ***Marquis Who's Who:***

My name was selected to be included in Marquis Who's Who (America's Biographer, <http://www.marquiswhoswho.com>) in its 2010-2011, 28<sup>th</sup> edition. This selection was free of charge and was made only by invitation due to my achievements in my area (VIP number: 35479506)

- ***International Biographical Centre, Cambridge, England***

My name was selected to be included in the International Biographical Centre in its 2010-2011 edition (2000 OUTSTANDING INTELLECTUALS OF THE 21<sup>st</sup> CENTURY -2011-). This selection was free of charge and was made only by invitation due to my achievements in my area (VIP number: TINT7/inv)

## ***Research Interests:***

- Experience in the area of physical organic chemistry (adsorption of organic functionalities on silicon surfaces), synthesis and characterisation of semiconducting materials.
- Drugs reformulation
- Chemical X-ray crystallography
- Synthesis and structure of new organic inclusion compounds (host-guest chemistry)
- Heterocyclic chemistry; synthesis and applications
- Solvent free synthesis (Green Chemistry)
- Polymorphism, salts, co-crystals, hydrates and solvates of pharmaceutical solids
- Design and develop crystalline molecular complexes of Active Pharmaceutical Ingredients (APIs)
- Design, synthesis and supramolecularity of new hosts and co-crystal formers

## ***Research Grants Awarded:***

- 2011-2014**      **Three-years project** funded by the Scientific Research Support Fund, Ministry of Higher Education and Scientific Research / Jordan for the amount of JD80000 (**co-investigator**).
- 2007-2009**      **Two-years project** funded by the Faculty of Scientific Research at Taibah University / Saudi Arabia for the amount of SR157000 (**co-investigator** with Dr. Mouslim Messali)
- 2006-2008**      **Two-years project** funded by the Faculty of Scientific Research at Taibah University / Saudi Arabia for the amount of SR116000 (**principal investigator**).
- 2006-2008**      **Two-years project** funded by the Faculty of Scientific Research at Taibah University / Saudi Arabia for the amount of SR202000 (**co-investigator** with Dr. Saleh Abdelmajeed)
- 2003-2006**      **Three-years project** funded by the Institute of Chemical and Engineering Sciences (Singapore) for the amount of S\$85000 (**principal investigator**)
- 2003-2004**      **Evaluation project (6 months)** funded by the Institute of Chemical and Engineering Sciences (Singapore) for the amount of S\$3000 (**principal investigator**)
- 2003-2004**      **Evaluation project (6 months)** funded by the Institute of Chemical and Engineering Sciences (Singapore) for the amount of S\$3000 (**co-investigator** with Dr. Abu-Noman Rahman)

## ***Membership in Professional Organizations:***

- The Royal Australian Chemical Institute (RACI), Australia
- Material Research Society (MRS), Singapore.
- Jordanian Chemical Society

## Publications:

1. **Solhe F. Alshahateet**, Nawash M. Algehezawi, Roger Bishop “ Dimeric and tetrameric N...H, C...N and N...N interactions exist in the crystal structure and self-assembly of 8,16-dimethyl-6,7,14,15-tetrahydro-7,15-methanocycloocta[1,2-*b*:5,6-*b'*]diquinoline” *Jordan Journal of Chemistry*. **2011**, **6(2)**. In press.
2. **Solhe F. Alshahateet**, Nawash M. Algehezawi “Crystallographic analyses of high-Z value structure of a pyridinium-carboxylate complex ” *J. Chem. Crystallography*, **2011**, **41(5)**, 708-714.
3. **Solhe F. Alshahateet**, “Synthesis and X-ray crystallographic analyses of a ternary inclusion complex of racemic V-shaped diheteroaromatic host with formic acid and water” *J. Chem. Crystallography*, **2011**, **41(4)**, 570-576.
4. **Solhe F. Alshahateet** “Synthesis and supramolecular chemistry of racemic dinitrodiphenyldiquinoline acetic acid cocrystal” *Jordan Journal of Chemistry*. **2011**, **6(1)**, 21-31.
5. **Solhe F. Alshahateet** “ Synthesis and X-ray Crystallographic Analysis of Pharmaceutical Model *Rac*-ibuprofen Cocrystal” *J. Chem. Crystallography*. **2011**, **41(3)**, 276.
6. **Solhe F. Alshahateet** “Synthesis and supramolecularity of non-centrosymmetric proton-transfer compound 2-aminopyridinium picolinoate” *Jordan Journal of Chemistry*. **2010**, **5(4)**, 317-324.
7. **Solhe F. Alshahateet**, “Synthesis and supramolecularity of hydrogen-bonded cocrystals of pharmaceutical model *rac*-ibuprofen with pyridine derivatives” *Molecular Crystals & Liquid Crystals*, **2010**, **533(1)**, 152-161.
8. Nawash Algehezawi, **Solhe F. Alshahateet**, Roger Bishop “Synthesis and solid-state structure analyses of a thia-bridged substituted diquinolinium acetate compound” *Jordan Journal of Chemistry*. **2010**, **5(3)**, (211-220).
9. **Solhe F. Alshahateet**, Roger Bishop, Donald C. Craig and Marcia L. Scudder “Anomalous Inclusion Behavior shown by a Thia-bridged Diquinoline Derivative” *Crystal Growth & Design*, **2010**, **10**, (1842-1847).
10. **Solhe F. Alshahateet** “ Structural chemistry of new ternary calyx[4]arene lattice inclusion system” *J. Chem. Crystallography*. **2010**, **40**, (191-194).
11. Mukarram H. Zaghal, Hanan A. Qaseer, Arab K. El-Qisairi, **Solhe F. Alshahateet**, Mazin Y. Shatnawi and Louise N. Dawe “Solid State Structure of 6,7-Dihydro-1,4-di(2'-pyridyl)-5*H*-cyclopenta[d]pyridazine” *J. Chem. Crystallography*, **2009**, **39**, (564-567).
12. Fethi Kooli, Yan Liu, **Solhe F. Alshahateet**, Mouslim Messali and Faiza Bergaya” Reaction of acid activated montmorillonites with hexadecyl trimethylammonium bromide solution” *Applied Clay Science*, **2009**, **43**, (357-363).
13. Fethi Kooli and **Solhe F. Alshahateet** ”Organomontmorillonites having different charges for wastewater treatment: Adsorption of phenol molecules” *J. Int. Environmental Application & Science*. **2008**, **Vol. 3(4)**, (207-214).
14. **Solhe F. Alshahateet** ”Effect of adding bromine sensors to the central linker of new diquinoline derivative” *Molecular Crystals & Liquid Crystals*. **2008**, **493(95-102)**.

15. **Solhe F. Alshahateet**, Roger Bishop, Donald C. Craig, Fethi Kooli and Marcia L. Scudder "The Janus-like behaviour of sulphur in substituted diquinoline inclusion crystal structures" *CrystEngComm.*, **2008**, **10**, 297.
16. Fethi Kooli, Liu Yan, **Solhe F. Alshahateet**, Prem Siril and Robert Brown "Effect of pillared clays on the hydroisomerization of *n*-heptane" *Catalysis Today*, **2008**, **131**(244-249).
17. Xiaojiao Sun, Zaher M. A. Judeh, Basem F. Ali and **Solhe F. Alshahateet**"A facile Synthesis of 3,5-Dimethyl-4-hydroxybenzaldehyde via Copper-Mediated Selective Oxidation of 2,4,6-Trimethylphenol" *Catalysis Today*, **2008**, **131**(423-426).
18. Mouslim Messali, Leon E. Christiaens, **Solhe F. Alshahateet** and Fethi Kooli "Synthesis of 4H-benzo[e]-1,2-selanzin-4-ones derivatives: a New Heterocyclic Ring System" *Selected Abstracts in Chemistry, ChemInform.* **2008**, **39**(2).
19. **Solhe F. Alshahateet**, Fethi Kooli, Mouslim Messali and Zaher M. A. Judeh "Synthesis and supramolecularity of C-benzopyrogallol[4]arenes: temperature effect on the formation of different isomers" *Molecular Crystals & Liquid Crystals.* **2007**, **474**(89-110).
20. Mouslim Messali, Leon E. Christiaens, **Solhe F. Alshahateet** and Fethi Kooli "Synthesis of 4H-benzo[e]-1,2-selanzin-4-ones derivatives: a New Heterocyclic Ring System" *Tetrahedron Lett.*, **2007**, **48**(7448-7451).
21. **Solhe F. Alshahateet**, Fethi Kooli and Mouslim Messali "Solvent free synthesis and crystal structure of 9,10-dihydro-9,10-diphenylanthracene-2,3,6,7-tetraol inclusion compounds" *Molecular Crystals & Liquid Crystals.* **2007**, **473**(59-66).
22. Jing Yan Huang, Yue Sheng Ning, Kian Soon Yong, Ying Hui Cai, Hai Hua Tang, Yan Xia Shao, **Solhe F. Alshahateet**, Yue Ming Sun and Gue Qin Xu "Binding of glycine and L-cysteine on Si(111)-7x7" *Langmuir*, **2007**, **23**(11), 6218-6226.
23. Jing Yan Huang, Hai Hua Tang, Yan Xia Shao, Qi Ping Liu, **Solhe F. Alshahateet**, Yue Ming Sun and Gue Qin Xu "Dissociation and [2+2]-like cycloaddition of unsaturated chain amines on Si(111)-7x7" *J. Physical Chemistry C.*, **2007**, **111**(18), 6732-6739.
24. **Solhe F. Alshahateet**, Tien Ten Ong, Roger Bishop, Fethi Kooli and Mouslim Messali "A dinitrodiphenyldiquinoline host for selective inclusion of polar guests" *Crystal Growth & Design*, **2006**, **6**(7), 1676-1683.
25. Fethi Kooli, Png Cheng Hian, Quek Weirong, **Solhe F. Alshahateet**, Crystina Martin and Vicente Rivers "Porous clay heterostructures from AL13 intercalated montmorillonites: synthesis and characterization" *Clay Science*, **2006**, **12**, Supplement 2, 295.
26. Fethi Kooli, Tan Hooi Sim, Dou Jian, Liu Yan, **Solhe F. Alshahateet**, Crystina Martin and Vicente Rivers "Zirconium nitrate solution as pillaring agent of montmorillonites clays" *Clay Science*, **2006**, **12**, Supplement 2, 301.
27. Fethi Kooli, Png Cheng Hian, Quek Weirong, **Solhe F. Alshahateet**, and Chen Fengxi "Effect of the acid-activated clays on the properties of porous clay heterostructures" *Journal of Porous Materials*, **2006**, **13**(3), 319-324.

28. Fethi Kooli, Li Mianhui, **Solhe F. Alshahateet**, Chen Fengxi, and Yinghuai Zhu "Characterization and thermal stability properties of intercalated Na-magadiite with cetyltrimethylammonium (C16TMA) surfactants " *Journal of Physics and Chemistry of Solids*, **2006**, **67**(5-6), 926-931.
29. Roger Bishop, Marcia L. Scudder, A. Noman M. M. Rahman, **Solhe F. Alshahateet**, and Donald C. Craig "The Pi-Halogen Dimer (PHD) interaction: A versatile new construction unit for crystal engineering" *Selected Abstracts in Chemistry, ChemInform*. **2006**, **37**(3).
30. **Solhe F. Alshahateet** " Personal perspectives: Australian on the Singapore Chemistry" *Chemistry in Australia*, **2005**, **21**(10).
31. **Solhe F. Alshahateet**, Roger Bishop, Marcia L. Scudder, Charmaine Y. Hu, Emily H. E. Lau, Fethi Kooli, Zaher M. A. Judeh, Pui Shan Chow and Reginald B. H. Tan "New edge-edge packing motifs present in the crystal structure of a thia-bridge tetrabromo aryl host" *CrystEngComm.*, **2005**, **7**(21), 139-142.
32. Jing Yan Huang, Yan Xia Shao, Hai Gou Huang, Ying Hui Cai, Qi Ping Liu, **Solhe F. Alshahateet**, Yue Ming Sun and Guo Qin Xu "Binding mechanism of methacrylic acid and methyl methacrylate on Si(111)-7x7-effect of substitution groups" *J. Physical Chemistry B.*, **2005**, **109**(42), 19831-19838.
33. Jing Yan Huang, Hai Gou Huang, Yue Sheng Ning, Qi Ping Liu, **Solhe F. Alshahateet**, Yue Ming Sun, and Guo Qin Xu "A [4+2] cycloaddition of methyl methacrylate on Si(100)-2x1" *Langmuir*, **2005**, **21**(25), 11722-11728.
34. Jing Yan Huang, Hai Gou Huang, Ning Yue Sheng, **Solhe F. Alshahateet**, Yue Ming Sun, Guo Qin Yu "Coexistence of keteneimine species and tetra- $\sigma$  adduct at acetyl cyanide/Si(100)-2x1" *Chemical Physics Letters*, **2005**, **411**(1-3), 75-80.
35. Fethi Kooli, Taroslav Z. Khimiyak, **Solhe F. Alshahateet**, and Chen Fengxi "Effect of the acid activation levels of montmorillonite clay on the acetyltrimethylammonium cations adsorption" *Langmuir*, **2005**, **21**(19), 8717-8723.
36. **Solhe F. Alshahateet**, Emily H. E. Lau, Fethi Kooli, Reginald B. H. Tan and Pui Shan Chow "Molecularly designed functional materials; can we really control their supramolecularity?" *Act Cryst.*, **2005**, **A61**, C353-354.
37. Roger Bishop, Marcia L. Scudder, A. Noman M. M. Rahman, **Solhe F. Alshahateet**, and Donald C. Craig "The Pi-Halogen Dimer (PHD) interaction: A versatile new construction unit for crystal engineering" *Molecular Crystals & Liquid Crystals*. **2005**, **440**, 173-186.
38. Emily H. E. Lau, Tien Teng Ong, **Solhe F. Alshahateet**, Fethi Kooli, Pui Shan Chow and Reginald B. H. Tan "Crystal engineering design of functionalized diquinolines" *VDI-Berichte Nr.* **2005**, **1901**, 447-452.
39. **Solhe F. Alshahateet**, Roger Bishop, Donald C. Craig and Marcia L. Scudder "Role of double C-H...N weak hydrogen bonding motifs in *N*-heteroaromatic inclusion chemistry" *Crystal Growth and Design*, **2004**, **4**, 837-844.
40. **Solhe F. Alshahateet**, Kazunori Nakano, Roger Bishop, Donald C. Craig and Marcia L. Scudder "Co-crystalline hydrogen bonded solids based on the alcohol-carboxylic acid-alcohol Supramolecular motif" *CrystEngComm*, **2004**, **6**(3), 5-10.

41. **Solhe F. Alshahateet**, Roger Bishop, Donald C. Craig and Marcia L. Scudder "An oxa-bridged tetrahalo aryl lattice inclusion host" *CrystEngComm*, **2003**, *5*(74), 417-421
42. **Solhe F. Alshahateet**, A. Noman M. M. Rahman, Roger Bishop, Donald C. Craig and Marcia L. Scudder "Interlocking molecular grid lattices involving weak assembly forces" *CrystEngComm*, **2002**, *4*(97), 585-590.
43. **Solhe F. Alshahateet**, Roger Bishop, Donald C. Craig and Marcia L. Scudder "Host-pre-resolution versus self-resolution in the formation of helical tabulate inclusion compounds" *CrystEngComm*, **2002**, *4*(8), 42-45.
44. **Solhe F. Alshahateet**, Roger Bishop, Donald C. Craig and Marcia L. Scudder "Clathrate inclusion behaviour of thia-substituted diquinoline host molecules" *CrystEngComm*, **2001**, *3*(55), 264-269.
45. **Solhe F. Alshahateet**, Roger Bishop, Donald C. Craig and Marcia L. Scudder "Dimeric C-H...N interactions and crystal engineering of new inclusion host molecules" *CrystEngComm*, **2001**, *3*(48), 225-229.
46. **Solhe F. Alshahateet**, Roger Bishop, Donald C. Craig and Marcia L. Scudder "The ether—1,3-*peri* aromatic hydrogen interaction" *CrystEngComm*, **2001**, *3*(25), 107-110.
47. **Solhe F. Alshahateet**, Roger Bishop, Donald C. Craig, Marcia L. Scudder and Alison T. Ung "Pseudopolymorphic clathrate structures formed by an alicyclic dialcohol inclusion host " *Structural Chemistry*, **2001**, *12*, 251-257.
48. Sultan T. Abu-Orabi, Yaser A. Yousef, Ibrahim Jibril and **Solhe F. Alshahateet** " 1,3-Dipolar cycloaddition reactions of substituted benzyl azides with trans-dibenzoyl ethylene: thermally stable triazoles versus unstable triazoline" *Abhath Al-Yarmouk, Basic Sciences and Engineering*, **2001**, *10*(2A).
49. Sultan T. Abu-Orabi, Raed Al-hamadani, **Solhe F. Alshahateet** and Khaled Abu-shandi "Synthesis of substituted benzyl-1H-1,2,3-triazolo[4,5-d]pyridazine-4,7-diones" *Heterocycl. Commun.*, **2000**, *6*, 443-449.

### ***Conferences and Presentations:***

1. Synthesis and Supramolecularity of C-phenylcalix[4]pyrogallolarenes: Temperature effect on the formation of different isomers. Taibah International Chemistry Conference, Madinah Monawara, Saudi Arabia, March **2009**.
2. Synthesis and supramolecularity of new calyx[4]arenes. Organic Structures and Properties, Barga, Italy, 27 April – 03 May **2008**.
3. Comparative intercalation properties of Na-magadiite layered silicate and its protonic counterpart. EUROCLAY2007, Aveiro, Portugal, 22-27 July **2007**.
4. Effect of the starting montmorillonite clays on the acid-activation and their cetyltrimethylammonium (C16TMA) cations adsorption. EUROCLAY2007, Aveiro, Portugal, 22-27 July **2007**.

5. Effect of acid activation of montmorillonite clay on the cetyltrimethylammonium (C16TMA) cations intercalation from bromide solution. EUROCLAY2007, Aveiro, Portugal, 22-27 July **2007**.
6. C-benzopyrogallol[4]arene: Synthesis and conformational analysis of novel family of hosts. National Conference in Chemistry, along with 26<sup>th</sup> Meeting of the Higher Council of the Arab Union of Chemists. Makkah, Saudi Arabia, 15-16 April **2007**.
7. Transformation of Na-magadiite to MFI type Zeolite using tetrapropylammonium hydroxide: effect of the metal cations. National Conference in Chemistry, along with 26<sup>th</sup> Meeting of the Higher Council of the Arab Union of Chemists. Makkah, Saudi Arabia, 15-16 April **2007**.
8. Adsorption of phenol by surfactant modified montmorillonite clays for wastewater treatment. Symposium on Environmental Pollutants: Analysis and Control. Medinah Munawarah Municipality and Taibah University, Saudi Arabia, 24-25 February **2007**.
9. Structural inclusion chemistry of new-bridged diquinoline hosts. **Program No. 690, 2005**, Abstract viewer, Honolulu, Hawaii: International Chemical Congress of Pacific Basin Societies. USA, 15-20 December **2005**.
10. Crystal engineering of novel calix[4]arene hosts. **Program No. 1048, 2005**, Abstract viewer, Honolulu, Hawaii: International Chemical Congress of Pacific Basin Societies. USA, 15-20 December **2005**.
11. Host pre-resolution versus self-resolution in the formation of helical tabulate inclusion compounds. **Program No. 814, 2005**, Abstract viewer, Honolulu, Hawaii: International Chemical Congress of Pacific Basin Societies. USA, 15-20 December **2005**.
12. Synthesis and host-guest chemistry of novel calix[4]arene derivatives. The Singapore International Conference of Chemistry (SICC-05), Singapore, 8-10 December **2005**.
13. Synthesis and supramolecularity of new anthracene-based host materials. The Singapore International Conference of Chemistry (SICC-05), Singapore, 8-10 December **2005**.
14. Crystal engineering design of functionalized diquinolines. The 16<sup>th</sup> International Symposium on industrial crystallization (ISIC-16), Dresden, Germany, 11-14 September **2005**.
15. Use of Zirconium nitrate to prepare pillared montmorillonite clays. The 13<sup>th</sup> International clay conference, Tokyo, Japan, 21-27 August **2005**.
16. Molecularly designed functional materials; can we really control their supramolecularity? The XX Congress of the international union of crystallography (IUCr2005), Florence, Italy, 23-31 August **2005**.
17. Crystal engineering design of nanoscale hosts and their applications in pharmaceutical co-crystals. International symposium of fine chemicals and pharmaceuticals, Sun Yatsen University, Guangzhou, China, 16-18 December **2004**.
18. Crystal engineering of new lattice inclusion host for separation of close isomers. XIIIth International symposium on supramolecular chemistry, University of Notre Dam, Indiana, USA, 25-30 July, **2004**.

19. Crystal engineering of lattice inclusion compounds using weak intermolecular forces. RACI division of organic chemistry, 20<sup>th</sup> national conference and 29<sup>th</sup> international symposium on macrocyclic chemistry, Cairns, Australia, 4-8 July **2004**.
20. The role of double C-H...N weak hydrogen bonding motifs in *N*-heteroaromatic inclusion chemistry. The sixth conference of the Asian crystallographic association, AsCA'04, Hong Kong University of Science and Technology, Hong Kong, China, 27-30 June **2004**.
21. Synthesis and crystal structures of diquinoline inclusion compounds. 2<sup>nd</sup> IUPAC international symposium on macro- and supramolecular architectures and materials (MAM-04): Functional and nano-systems, the University of Montana, Missoula, Montana, USA, 13-17 June **2004**.
22. Chemistry in host-guest media. Polymorphism in crystals, the American Chemical Society, Tampa, FL, USA, 7-11 February **2004**.
23. Synthesis and supramolecularity of new lattice inclusion compounds. The Royal Australian Chemical Institute, NSW organic group, 22<sup>nd</sup> Annual one-day symposium, the University of Wollongong, Australia, 4<sup>th</sup> December **2001**.
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