CURRICULUM VITAE

PERSONAL PARTICULARS

Full Name	:	Imad (Moh'D Khair) Rashid Hamadneh
Research I. D - URL	:	http://www.researcherid.com/rid/A-7338-2012
ORCID	:	http://orcid.org/0000-0002-4446-112X
Google Scholar	:	Imad Hamadneh - Google Scholar
Scopus ID	:	8214114100
H- index (Scopus)	:	15
Citation (Scopus)	:	1,029
Total No. of publications	:	69
Date of Birth	:	12th Sep. 1972
Place of Birth	:	Damascus/Syria
Sex	:	Male
Nationality	:	Jordanian
Occupation	:	Professor of Materials Chemistry, Department of Chemistry, Faculty of Science, University of Jordan, 11942 Amman, Jordan.
Permanent Address.	:	P.O. Box: 595 / 11941, Amman, Jordan.
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QUALIFICATIONS

- **Ph.D. (Material Science Program), 2002.**
  Universiti Putra Malaysia, Serdang, Selangor, Malaysia.

  Title of Thesis:
  "*Synthesis and Characterization Samarium Doped Superconductor Prepared via Coprecipitation Method*"

- **M.Sc. (Chemistry), 1999**

  Universiti Kebangsaan Malaysia, Bangi, Selangor, Malaysia

  Title of Thesis:
  "*Fabrication and Characterization of Superconductor/ Polymer composites.*"
- **B.Sc. (Chemistry), 1994**
  Mu'tah University, Al-Karak, Jordan.

PROFESSIONAL EXPERIENCE

- President of International American Chemical Society Jordan Chapter since April 2018
- Professor at the Department of Chemistry, Faculty of Science, The University of Jordan since August 28th, 2015.
- Vice president of Jordanian Chemical Society (JCS) 29/12/ 2012- 6/3/2014
- Dean Assistant for Student Affairs, Faculty of Science, University of Jordan, from September 4th, 2012- September 15th, 2013
- Associate Professor at the Department of Chemistry, Faculty of Science, the University of Jordan (August 28th, 2011- 27th August 2015).
- Assistant Professor at the Department of Chemistry, Faculty of Science, the University of Jordan (February 3rd 2008-27th August 2011).
- Contract Lecturer at the Department of Chemistry, Faculty of Science, Universiti Putra Malaysia. Serdang, Selangor, Malaysia from March 29th 2004-15th Jan 2008
- Visiting Lecturer at the Department of Chemistry, Faculty of Science, Universiti Putra Malaysia. Serdang, Selangor, Malaysia from April 29th 2003-28th March 2004.
- Postdoctoral Fellow in Superconductor and Material Science Lab, Faculty of Science, Universiti Putra Malaysia from October 2002 to April 2003.
- Graduate Research Assistant for Prof. Dr. Abdul Halim Shaari in Superconductor and Material Science Lab, FSAS, UPM from June 1999 to February 2002.
- Research assistant in the Faculty of Science and Technology, at the Department of Chemistry (FST), Universiti Kebangsaan Malaysia, Bangi, Selangor, Malaysia from October 1997 to March 1999.
- Science teacher for the United Nations Relief and Works Agency for Palestinian Refugees in the Near East (**UNRWA**), Amman, Jordan from September 16th, 1995 to May 19th, 1997

SOCIETIES AND PUBLIC SERVICES

- Fellow of **Malaysian Solid-state Science and Technology Society (MASS)**. Malaysia since 2019.
- President of **American Chemical Society-Jordan Chapter**, since 2018.
- Fellow of **Royal Society of Chemistry (RSC),** the UK since 2016
- Member of Editorial Board for Nano Materials Chapter for **National Chemical Profile** (Ministry of Environment-Jordan), 2012-2014.
- Member of **American Chemical Society (ACS)**, the USA since 2013.
- Member of Judge panel for **Arab Intel Science and Engineering competition**, 26-29 October 2013
- Member of Judge panel for **Intel Science and Engineering competition**, since 2011.
- Member of **American Nano Society (ANS)**, the USA since 2011
- Member of an expert panel in nanotechnology (ISESCO) since 2010.
- Member of **Royal Society of Chemistry (RSC),** the UK since 2007
- Member of **European Society for Applied Superconductivity**, since 2007
- Life member of **Malaysian Solid-state Science and Technology Society (MASS)**. Malaysia since 2003.
- Member of **Jordanian Chemical Society (JCS)**, Amman, Jordan since 1994.

TEACHING SKILLS:

- Teaching Chemistry courses: such as General Chemistry, Industrial Chemistry-1, Industrial Chemistry-2, General Chemistry Labs, Physical Chemistry Labs.
- Teaching Materials science courses: such as Materials Chemistry and Composite Materials.
- Teaching Polymer chemistry courses: such as Industrial Polymer Chemistry, Polymer Technology.
- Teaching Special Topics for postgraduate students: Solid State Characterization, Nano Chemistry, Materials Science, and Spectroscopy II.

ACADEMIC PROJECTS AND RESEARCH SKILLS

Superconductivity and Nano-Materials

- The Effect of Nano-sized Starting Powers on the Physico-chemical Properties of the RE123 Superconducting Ceramics prepared Via Co-precipitation method, **funded by the Deanship of Scientific Research, The University of Jordan, Jordan**
- The Effect of Nano-sized Starting Powers on the Physico-chemical Properties of

the RE123 Superconducting Ceramics prepared Via Co-precipitation method (RE= Er, Dy, Yb), **funded by Hamdi Mango Centre for Scientific Research, The University of Jordan, Jordan**

- Synthesis and Characterization of Kevler -Like Polymer and Low Molecular Weight Models for Industrial Applications- **funded by Ministry of Higher Education, Jordan**
- The effect of the coprecipitation technique on the physic-chemical properties of $ReBa_2Cu_3O_{7-\delta}$ (Re= Er, Gd, Dy, Ho) superconducting ceramics". Fundamental Research Grant Scheme. **Funded by Ministry of Higher Education**, Malaysia
- A member for IRPA project No. 09-99-03-0024-EA001 entitled: Development and testing for a novel design concept of high- Temperature Superconducting Fault Current Limiter for power application, **Universiti Tenaga Nasional, Malaysia.**
- Synthesis and formation of (Tl, Cr)-1212 superconducting ceramic from coprecipitated oxalate precursors**. funded by Research Management Center, Universiti Putra Malaysia, Malaysia**

Clay, Minerals, Polymers and Nan composite

- Synthesis and Characterization Of Nanomaterials Using Green Chemistry**, funded by King Abdullah II Fund for Development & King Abdullah II Design and Development Bureau / Scientific Research Department**

- Smart Materials Based on Cellulose Derivatives for Renewable Energy, **supported by Ministry of Higher Education and the Deanship of Scientific Research, The University of Jordan, Jordan**

- Grafting of Consumed Paper Fibre with Thermoplastic Polymers, **funded by Deanship of Scientific Research, The University of Jordan, Jordan.**

- Hardening of the Hazardous Waste and Industrial Water Treatment by Inorganic Polymerization **supported by Ministry of Higher Education, Jordan**
- Polymer/diatomite composite membrane system for industrial wastewater

treatment **funded by Abdel Hamid Shoman Foundation, Jordan.**

- Production of Polymeric Nanocomposite Membranes for wastewater treatment, **supported by Hamdi Mango Centre for Scientific Research, The University of Jordan, Jordan**

ACADEMIC AWARDS

1. Gold Medal at UPM Invention and Research Exhibition for project titled: *(Effect of Doping in BSCCO and YBCO Bulk Superconductor).2002*
2. Silver Medal at UPM Invention and Research Exhibition for project titled: *(Fabrication of Mono and Multi Filament Tapes Prepared Via Coprecipitation Methods).2002*
3. Silver Medal at UPM Invention and Research Exhibition for project titled: *(Effect of Magnetic and Non-Magnetic Elements Doped in Manganite).2002*
4. Best SEM Micrograph at Seminar Update on Microscopy and Microanalysis.*2002*
5. Second Prize for Poster Presentation at Seminar Update on Microscopy and Microanalysis.*2002*
6. Silver Medal at UPM Invention and Research Exhibition for project titled: *(Superconducting Properties of Bulk and Tapes of Bi(Pb)-Sr-Ca-Cu-O System Prepared Via Conventional Solid State and Coprecipitation Methods).2003*
7. Best Poster Presentation at workshop Superconductivity Theory and Tapes Technology (STTT04). 2004.
8. Certificate of excellent record (2003) from the Vice-Chancellor Universiti Putra Malaysia
9. Bronze Medal atMed Valley Exhibition Center, KL. 15th International Invention.Innovation, Industrial Design& Technology Exhibition (I.TEX) for a project entitled (*Production of High-Quality Bi(Pb)-Sr-Ca-Cu-O Superconductor Powders for Use in Tape Fabrication for Device Applications*).2004
10. Gold Medal at EXPO Science, Technology & Innovation for a project entitled (*Extremely Low Magnetic Energy Loss/Low-Cost Antenna For High-Frequency Operations in The* $Ni_{0.76-x}Mg_{0.04-x}Ca_{0.005}Co_{0.1}Cu_{0.075}Zn_{0.04}Fe_{1.96}O_{3.96}$ *Ferrite System*).2004
11. Certificate of excellent record (2003) from the Vice-Chancellor Universiti Putra Malaysia

12. Silver Medal at UPM Invention and Research Exhibition for project titled: *Ag-sheathed $Bi_{1.6}Pb_{0.4}Sr_2Ca_2Cu_3O$ superconducting tapes fabricated powder-in-tube (PIT) and wire-powder-in-tube process (WPIT)).2005*
13. Certificate of excellent record (2004) from the Vice-Chancellor Universiti Putra Malaysia
14. Certificate of excellent record in teaching (2005) from Dean of faculty of science, Universiti Putra Malaysia
15. Certificate of excellent record in research (2005) from Dean of faculty of science, Universiti Putra Malaysia
16. Certificate of excellent record (2005) from Dean of faculty of science, Universiti Putra Malaysia
17. Silver Medal at17th International Invention, Innovation, Industrial Design& Technology Exhibition Malaysia (I.TEX 2006) for a project entitled (*High-Current Density Ceramic Superconductor Tape*).2006
18. Silver Medal at UPM Invention and Research Exhibition for project titled:(*Synthesis of Tl(Cr)-Sr-Ca-Cu-O (Tl-1212) system using coprecipitation*).*2006*
19. Certificate of excellent record (2005) from the Vice-Chancellor Universiti Putra Malaysia
20. Certificate of excellent record in teaching (2006) from Dean of faculty of science, Universiti Putra Malaysia
21. Certificate of excellent record in research (2006) from Dean of faculty of science, Universiti Putra Malaysia
22. Gold Medal at Kulliyyah of Engineering Research and Innovation Exhibition 2006 (KERIE'06) for a project entitled: *Production of high purity of carbon nanotubes by using chemical vapor deposition* (CVD). International Islamic University of Malaysia.
23. Best Poster Presentation at International Conference on Advancement of Materials and Nanotechnology 2007 (ICAMN 2007), Langkawi Island, Malaysia, 29th May-1st June 2007.
24. Certificate of excellent record in teaching (2007) from Dean of faculty of science, Universiti Putra Malaysia
25. Certificate of excellent record in research (2007) from Dean of faculty of science, Universiti Putra Malaysia
26. Certificate of excellent record in overall achievements (2007) from Dean of faculty of science, Universiti Putra Malaysia.
27. Gold Medal at UPM Invention and Research Exhibition (PRPI07) for project titled:(*Nano-sized precursors for superconducting ceramics synthesis*).*2007*

28. Bronz Medal at UPM Invention and Research Exhibition (PRPI07) for project titled:(*Electrochemical Reduction of Potassium Ferricyanide mediated by Magnesium Diboride Modified Carbon Electrode*)*.2007*
29. Bronz Medal at UPM Invention and Research Exhibition (PRPI07) for project titled: (Voltammetric *Studies of Microcrystalline* $YBaCu_2O_{7-\square}$ *Superconductor Mechanically Attached to a Carbon Electrode*).2007.
30. Best Poster Presentation at 8th Annual meeting of Jordanian Chemical Society 2008 (**JCS8)**, Amman, Jordan, 20th April 2008.
31. Silver Medal at UPM Invention and Research Exhibition (PRPI09) for project titled: (The Roles of Magnetic Nanoparticles Addition in Bi-2223 Superconductor).2009.
32. Bronz Medal at UPM Invention and Research Exhibition (PRPI09) for project titled: (Ceramics Superconductor $REBa_2Cu_3O_{7-\delta}$ (RE=Y, Dy & Er), Synthesis via Coprecipitation Method).2009.
33. Silver Medal at UPM Invention and Research Exhibition (PRPI09) for project titled: (TiO_2-Chitosan/Glass Photocatalyst for the Removal Of Monoazo Dye via Photodegradation -Adsorption).2009.
34. Bronz Medal at UPM Invention and Research Exhibition (PRPI12) for project titled: (Preparation of Zn and Ca Doped $ErBa_2Cu_3O_{7-\delta}$ Superconductors by Coprecipitation and Their Electrochemical Analysis).2012.
35. Certificate of excellent record in research (2019), president of The University of Jordan.

SUPERVISING STUDENTS

Ph.D. Students:

Name:	Lee Kong Hui (GS11613) PhD
Title:	Photomineralization of Dissolved Organic Waste using TiO_2 Thin Films Supported on Solid Substrates.
Status:	completed/ 2007
Name:	Elias Sediq PhD
Title:	Synthesis of RE123 (RE=Eu, Nd, Yb,Er) systems via coprecipitation method
Status:	completed/ 2012
Name:	Ahmad Al-Mubaideen Ph.D
Title:	Green synthesis of CuO, $BaCO_3$, and Y_2O_3 nanoparticles using Mediterranean cypress cones and their applications in $YBa_2Cu_3O_{7-\delta}$ superconductor synthesis and biochar-based nano copper oxide composites for arsenic removal.

Status: completed/ 2018

Name : Morouj Zeyadeh, Ph.D.
Title: Effect of Green Nano Fertilizers on Lettuce (*Lactuca sativa* L.) Growth and Quality.

Status: completed/2023

Name : Sarah Jamal Fayyad Jaradat, PhD
Title: Extraction of Anthocyanins from grape industries waste and their use in the production of food and cosmetics.
Status: completed/2023

Name : Mounia Benzerzoura, PhD
Title: Production and purification of bio preservative plantaricin and its use as a bactericidal against selected foodborne pathogens.
Status: completed/2023

Name : Wala Mubarak Al-Tarawneh, PhD
Title: Synthesis and Characterization of Cellulose-Hydrogel Nano Metal Oxide Composite for Medical Applications
Status: ongoing/2023

Name : Abeer Euaid Dbaian Alsharafat, PhD
Title: Synthesis of highly porous biochar from pre-treated neem fruit waste and its applications on the adsorption of chromium and lead ions from aqueous solutions
Status: ongoing/2024

Name : Khawlah "Mohammed Ali" Diab Damer, PhD
Title: Removal of phenol from aqueous solution using biochar produced from Jacaranda fruit: Thermodynamic, kinetic, and adsorption study
Status: ongoing/2024

Master Students:

Name: Basel Mustafa Mahmood JaafarMSc.
Title: Modification of Jordanian clay by using prepared fatty hydroxamic acids (FHA) from several vegetable oils.
Status: Completed

Name: Hussein Abdullah Hussein Baqiah MSc.
Title: Effect of Magnetic nanoparticle addition on the superconducting properties of Bi-Pb-Sr-Ca-Cu-O
Status: Completed

Name: Salam Mohammad Ahmad Habib MSc.

Title: Modelling the Stability of Nano encapsulated Essential Poly Unsaturated Fatty Acid Thermally Treated by Microwave
Status : Completed

Name : Ahmad Mustaza bin Ahmad Rusli (GS18204) MSc.
Title : Synthesis of RE123 (RE=Sm, Gd, Ho) systems via coprecipitationmethod
Status : Completed

Name : Muhammad Farhan bin Nazaruddin (GS19495) MSc.
Title : Synthesis of RE123 (RE=Pr, La, Dy) systems via coprecipitation method
Status : Completed/2010

Name : ErinaFarhanibt.Kadri (GS18939) MSc
Title : Electrochemical studies on RE123 (RE=Yb, Er, Y) systems synthesized via coprecipitation method
Status : Completed/2009

Name : MohdHaniff bin Wahid MSc
Title : Synthesis of RE123 (RE=Nd, Y) Thin film via electrophoretic method
Status : Completed/2010

Name : Masnita Mat Jusoh MSc
Title: Effects Of Nanometer- γAl_2O_3Addition On Superconducting Properties Of $Bi_{1.6}Pb_{0.4}Sr_2Ca_2Cu_3Ox$ (Bi-2223) Superconductor
Status : Completed/2011

Name : NurulRaihanMohdShuib MSc
Title: Effects Of Nanometer- γAl_2O_3Addition On Superconducting Properties Of $Bi_{1.6}Pb_{0.4}Sr_2Ca_2Cu_3Ox$ (Bi-2223) Superconductor
Status : Completed/2011

Name : Anas Mohammad Fiyad Momani MSc
Title : Effect of Nanoparticles on Water Desalination using Roof Type Solar Still
Status : completed/2015

Name : Ala Ahmad Suliman MSc
Title: Adsorption Characteristic of Rare Earth Elements (La, Nd, and Sm) from aqueous Solution on surfactant-modified Jordanian Diatomaceous earth: Equilibrium, kinetic and thermodynamic modeling studies
Status : completed/2016

Name : Noor Wajih Al Jundub MSc
Title : Adsorption of Rare-Earth Metals, (Europium, Erbium and Gadolinium) from aqueous Solution on Surfaces of Organically-

Modified Jordanian Diatomaceous Earth: Equilibrium, Kinetic and Thermodynamic Studies
Status : completed/2016

Name : Abdel Monem Obidellah Al-Atawi MSc
Title: Comperative Study Between Standard and Jordanian diatomite for Adsorption of Two Rare-Earth Metals, Nd and Sm from aqueous Solution
Status : completed/2016

Name : Marwa Faiez Abdel Fattah Al-Kaied MSc
Title: Synthesies and charactrization of PMMA-Bentonite nanocomposite as adsorbant of Pb (II) and Cr (III) from aqueous solution
Status : completed/2016

Name : Noura Ebrahim Saleh Mohammed MSc
Title: Phenol adsorption on biochar prepared from the empty pine fruit shells
Status : completed/2017

Name : Sarah Jamal Jaradat MSc
Title : Nanoencapsulation of vitamins A and D and Modeling their Thermal Stability
Status: completed/2017

Name : Aseel Mohammed Mustafa Akil MSc
Title: Adsorption of Paracetamol via BioChar from empty pine fruit shells: Equilibrium, kinetic and thermodynamic modeling studies
Status: completed/2017

Name : Hadeel Yaquob Alhayek MSc
Title: Green Synthesis Of Nano Particles (Y_2O_3, $BaCO_3$, CuO) Using Aqueous Neem Fruit Extract And Their Applications
Status: completed/2018

Name : Farah Zuhair Abed Al-junabi MSc
Title: Green Synthesis of Copper Oxide Nanoparticles and its Effect on Alleviating Salinity Stress in Durum Wheat (*Triticum turgidum* L. var durum)
Status: completed/2019

Name : Marya Khawaldeh MSc
Title: Synthesis of biochar from pre-treated carob and juniper fruit residues and their applications to remove chromium ions from aqueous solutions.
Status: completed/2021

Name : Nehal Al Muhtaseb MSc
Title: Chromium Cr (VI) Adsorption on Biochar Prepared from Empty Pine Fruit Shells and its Activated Form.
Status: completed/2022

Name : Mohammad Jukhan MSc
Title: Biochar synthesis from Jacaranda fruit and its applications for chromium ions removal from aqueous solutions.
Status: completed/2022

Name : Mohammad Al-Awamleh MSc
Title: Synthesis and Characterization of High Temperature Superconductor RE-123 (RE= Gd, Sm, Ho) Using Green Chemistry Method.

Status: completed/2022
Name : Dina Zuhdi Alfagawi MSc
Title: The Effect Of Nanoclay Structure on the Properties of Electrospun Cellulose Acetate.
Status: completed/2023

Name : Hebatollah Ali Assaed MSc
Title: The removal of chromium and lead ions using pretreated cypress biochar (alkaline modifier) from aqueous solutions.
Status: ongoing/2023

Name : Fatimah Hesham Ahmad Abdulrahman MSc
Title: The effect of pretreated cypress cones biochar (acidic modifier) on the removal of chromium and lead ions from aqueous solutions.
Status: ongoing/2023

Name : Azizah Mansour MSc
Title: Synthesis and Characterization of ceramic-cellulose composite for wastewater removal
Status: ongoing/2023

EXAMINER

Students Name : Jamarosliza Binti Jamaluddin
Matric No. : GS13722
Program : M.Sc
Status : Internal examiner/2006

Students Name : Ramadan Masoud Al-Habashi

Matric No.	:	GS14973
Program	:	M.Sc
Status	:	Chairman of the examiner committee /2007
Students Name	:	Mohd Fairul Sharin Bin Abdul Razak
Matric No.	:	GS14448
Program	:	M.Sc
Status	:	Internal examiner /2007
Students Name	:	Nor AsrinaSairi
Matric No.	:	GS15641
Program	:	M.Sc
Status	:	Internal examiner /2007
Students Name	:	Mohammed Ali Sultan
Program	:	M.Sc
Status	:	Internal examiner /2009
Students Name	:	Faisal Amer Amirah Mustafa
Program	:	M.Sc
Status	:	Internal examiner /2010
Students Name	:	Wael Mohammed Yonus Mahmood
Program	:	M.Sc
Status	:	Internal examiner /2011
Students Name	:	Alia'a Mohammed MohammedKhalifa
Program	:	M.Sc
Status	:	Internal examiner /2012
Students Name	:	FatenSulaiman Al-Regeb
Program	:	M.Sc
Status	:	Internal examiner/ 2012
Students Name	:	Ahmad Khalaf Mohammed Khawaldeh
Program	:	M.Sc (8110291)
Status	:	Internal examiner/ 2013
Students Name	:	Muna Mustafa Asaad Sharar
Program	:	M.Sc (8111165)
Status	:	Internal examiner/ 2013
Students Name	:	Fares Atta Abid Al hunaifat
Program	:	M.Sc (8111168)
Status	:	Internal examiner/ 2014
Students Name	:	Fida’a A Al-Shawawreh
Program	:	M.Sc
Status	:	Internal examiner/ 2015
Students Name	:	Noor Rebhi Ghannam

Program : M.Sc (8130386)
Status : Internal examiner/ 2016

Students Name : Azizah Mohammed Al Madhi
Program : M.Sc
Status : Internal examiner/ 2016

Students Name : Yasmin waleed Husni Al Eissa
Program : M.Sc (811147)
Status : Internal examiner/ 2016

Students Name : Abdullah Shwaqfeh
Program : M.Sc
Status : Internal examiner/ 2016

Students Name : Muhammed Maali
Program : M.Sc –Muta'h University
Status : External examiner/ 2017

Students Name : Aisha Mohammad Jumah Rahmoni
Program : M.Sc
Status : Internal examiner/ 2017

Students Name : Mohammad Alrbaihat
Program : Ph.D
Status : Internal examiner/ 2017

Students Name : Marwa Al-aqarbeh
Program : Ph.D
Status : Internal examiner/ 2018

Students Name : Latifa Saeed Ismail
Program : Ph.D
Status : Internal examiner/ 2019

Students Name : Rozilah Rajai, UiTM
Program : Ph.D
Status : External examiner/ 2019

Students Name : Aeshah Muthanna Razooqi Al-Saeedi
Program : M.Sc
Status : Internal examiner/ 2019

Students Name : Mohd Hamzah Bin Harun/UPM
Program : Ph.D
Status : External examiner/ 2020

Students Name : Alaa Hssan Alsharafat/Al Albayt
Program : MSc
Status : External examiner/ 202**1**

Students Name	:	Majedah Alkeifi/Al Albayt
Program	:	MSc
Status	:	External examiner/ 2022

Students Name	:	Faten S Alraqab/
Program	:	PhD
Status	:	Internal examiner/ 2022

Students Name	:	Omar Nasrah/
Program	:	PhD
Status	:	Internal examiner/ 2023

TRAINING COURSES

- Speaker and chairperson at Jordan Nano Symposium 2021, from 16 -18 March 2021.
- Jordan Chemical Inventory Management Course, CSP-CRDF program, from 22 November-24 December 2020.
- Know -Your Customer (KYC) Remote Training for Jordan Chemical Industry Stakeholders, from 21-29 October 2020.
- The 2019 DHS Chemical Sector Security Summit, New Orleans, Louisiana from 16-19 July 2019.
- Fifth ACS Festival Training Institute, American University of Sharjah, Sharjah, UAE from 17 -19 April 2018
- Global Chemists' Code of Ethics (GCCE) Science and Technology Leadership Institute (STLI) workshop 6-10 February 2017 in Rabat, Morocco
- Basic SEM course at FEI Application Laboratory in the Netherlands, Nov 9-11, 2009
- Workshop on 2005 Student-Centered Learning (SCL), F.S, 15 &16 June 2005.
- Workshop on ISO9001/2000 for new academic staff. F.S, May 2005
- Course work on e-Sprint (computer literacy), FSAS, 26-27 May 2004.
- Workshop on Teaching Skills, Chemistry Department, F.S, 18-05-2004
- English course work, IDEAL, UPM, 21-5-2003 (1 week).
- Course work on Micro-Scale Chemistry and Low-Cost Ways of Teaching Practical Chemistry, in a workshop on Chemical Education.2000.Brunei.

CONFERENCES AND WORKSHOPS

- The 1st International Conference on Materials, Energy & Environment (MEE2020) " **Green synthesis of metal oxide nanoparticles using Neem plant extract**", Eloued-Algeria, January 20-21, 2020

- Malaysian Solid State Science and Technology Association (MASSS) and 7th ICSSST 2019, " **Green synthesis of metal oxide nanoparticles using plant extracts: merits and constraints ",** Putra Jaya, Malaysia from 11-13 November 2019
- 5th Festival Training Institute to be held in Sharjah, the United Arab Emirates on April 17 – 19, 2018.
- Global Chemists' Code of Ethics Science and Technology Leadership Program (GCCE-ACS) Rabat, Morocco; 6-10 February 2017
- 250th American Chemical Society's (ACS) National Meeting & Expo in Boston, Massachusetts on 16-20 August 2015.
- 4th International Workshop and Conference on Nanomaterials and Nanodevices, December 8-9, 2014-Cairo, Egypt.
- Renewable Energy Innovation Accelerator Workshop, 27-30 January 2014-Amman, Jordan.
- Nanomaterial workshop and chemical risk management under national profile, Millenium Hotel, Amman, 5-8 January 2013
- The 3rd ISESCO International Workshop and Conference on Nanotechnology 2012 (IWCN2012), 5-7 December, Malaysia

PUBLICATIONS

Books:

1- Imad Hamadneh; Basel M. Jafar; Fawwaz I. Khalili, 2015, "A study on Adsorption of Fatty Hydroxamic Acids by Natural Clays", *Lap Lambert Academic Publishing*, Germany.
2- Imad Hamadneh; Abdulmonem O. Alatawi; Ammar H. Al-Dujaili, 2016 "Adsorption of Sm (III) and Nd (III) ions from aqueous solutions", *Lap Lambert Academic Publishing*, Germany.
3- Ammar H. Al-Dujaili; Alaa A Al-Bshaish; Imad Hamadneh, 2018 "Adsorption of Lanthanum (La) and Samarium (Sm) by Diatomaceous Earth", *Lap Lambert Academic Publishing*, Germany.

Papers in Refereed Journals

1. Abu-Zurayk, R., Hamadneh, I., Al-Taee, B., Al-Kayed, M., Al-Dujaili, M., 2024. Adsorption of Pb(II) and Cr(III) ions and p-chlorophenol on polymethylmethacrylate-organobentonite Nanocomposite, Polymer Bulletin, 81(7), pp. 6249-6270. https://doi.org/10.1007/s00289-023-05001-2

2. AlShamaileh, E., Altwaiq, A., Al-Mobydeen, A., Hamadneh, I., S Al-Saqarat, B., Hamaideh, A., Moosa, I., 2023. The Corrosion Inhibition of Montmorillonite Nanoclay for Steel in Acidic Solution, Materials, 16(18), 6291
3. Esaifan, M., Al-Mobydeen, A., Al-Masri, A., Altwaiq, A., Al-Saqarat, B., Mahmoud, W., Hamaideh, A., Moosa, I., Hamadneh, I., AlShamaileh., 2023. Synthesis of Nanostructured Alumina from Byproduct Aluminum Filings: Production and Characterization, Inorganics, 11, 355. https://doi.org/10.3390/inorganics11090355
4. Tarawneh, O., Hammad, A., Abu Mahfouz, H., Hamadneh, L., Hamed, R., Hamadneh, I., Al-Assi, A., 2023. Development of mucoadhesive cellulose derivatives polymeric films for the treatment of vaginal candidiasis. Cellulose Chemistry and Technology, Cellulose Chem. Technol., 57 (1-2), 117-124. https://doi.org/10.35812/CelluloseChemTechnol.2023.57.12
5. Moroug Zyadeh, M., Hamadneh, I., Kasrawi, M., Shahein, M., Saadeh, H., 2023. Synthesis of Cellulose-based Hydrogel and regulating the Release of Nitrogen Fertilizer, Cellulose Chemistry and Technology, 57 (1-2), 71-78. https://doi.org/10.35812/CelluloseChemTechnol.2023.57.07
6. Mounia Benzerzoura, Hamzah Al-Qadiri, Monther Sadder, Azmi Mahafzah, Imad Hamadneh, 2023, Screening of wild Lactobacillus plantarum Produced in Brine Solution of Naturally Fermented Cucumbers, Jordan Journal of Agricultural Sciences, (in press)
7. Al-Saqarat, B., Al-Mobydeen, A., AL-Masri, A., Esaifan, M., Hamadneh, I., Moosa, I., AlShamaileh, E., 2023. Facile Production Method of PbS Nanoparticles via Mechanical Milling of Galena Ore. Micromachines, 14(3), 564; https://doi.org/10.3390/mi14030564
8. Amr, A., Jaradat, S., Alkhatib, H., Hamadneh, I., Hamadneh, L., Hodali, H., Zeadeh, M. And Shahein, M., 2022. Extraction of Anthocyanins from Black Grape By-Products and Improving Their Stability Using Cobalt(II) Complexation. Preventive Nutrition and Food Science, 27(4), pp. 457-463. https://doi.org/10.3746/pnf.2022.27.4.457.
9. AlShamaileh, E., Alrbaihat, M., Moosa, I., Abu-Afifeh, Q., Al-Fayyad, H., Hamadneh, I., Al-Rawajfeh, A., 2022. Mechanochemical Preparation of a Novel Slow-Release Fertilizer Based on K_2SO_4-kaolinite, *Agronomy* 2022, 12, 3016. https://doi.org/10.3390/agronomy12123016.
10. AlShamaileh, Ehab., Moosa, Iessa., Al-Fayyad, Heba; Lahlouh, Bashar; Kazem, Hussein; Abu-Afifeh, Qusay; Al-Saqarat, Bety; Muayad Esaifan; Hamadneh, Imad., 2022. Performance Comparison and Light Reflectance of Al, Cu, and Fe Metals in Direct Contact Flat Solar Heating Systems. *Energies*, 15, 8888. https://doi.org/10.3390/en15238888.
11. AlShamaileh, Ehab., Altwaiq, Abdelmnim; Esaifan, Muayad; Al-Fayyad, Heba; Shraideh, Ziad; Moosa, Iessa., Hamadneh, Imad., 2022. Study of the Microstructure, Corrosion and Optical Properties of Anodized Aluminum for

Solar Heating Applications. *Metals*, 12, 1635. https://doi.org/10.3390/met12101635.

12. Hamadneh, Imad., Abu-Zurayk, Rund A., Aqel, Aseel., Al-Mobydeen, Ahmed., Hamadneh, Lama., Al-Dalahmehe, Yousef., Hannoon, Fayza., Albuqain, Rula., Alsotari, Shorouq., Al-Dujaili, Ammar., 2022. Impact of H_3PO_4 -activated carbon from pine fruit shells for paracetamol adsorption from aqueous solution. *Desalination and Water Treatment.* 264, 293–306. https://doi:10.5004/dwt.2022.28589.
13. Hamadneh, I., Al-Mobydeen, A., Al-Dalahmeh, Y., Albuqain, R., Alsotari, S., Al-Obaidi, O., Albiss, B., Al-Dujaili, A., 2022. Green Synthesis of a $YBa_2Cu_3O_7$ Ceramic Superconductor Using the Fruit Extract of Juniperus phoenicea. *Ceramics International*, 48(9), 12654-12659. https://doi.org/10.1016/j.ceramint.2022.01.135
14. Mimouni, M., Bayou, S., Zeroual, S., Hamadneh, I., Mahboub, M., Ramdani, S., Rihia, G., Ghougali, M., 2022. Synthesis and Characterization of Bulk Bi-2212 Superconducting Ceramic Using Photopolymerization Reaction-Based Method. *Journal of Superconductivity and Novel Magnetism*. 35, 401–408. https://doi.org/10.1007/s10948-021-06093-5
15. Tarawneh, O., Hamadneh, I., Huwaitat, R., Al-Assi, A., El Madani, A., 2021. Characterization of Chlorhexidine Impregnated Cellulose-Based Hydrogel Films Intended for the Treatment of Periodontitis. *BioMed Research International*. 2021, 9853977. https://doi.org/10.1155/2021/9853977
16. Meinnel, J., Zeroual, S., Mahboub, M., Boucekkine, A., Juranyi, F., Carlile, C., Mimouni, M., Hamadneh, I., Boudjada, A., 2021. Calculations of the molecular interactions in 1,3-dibromo-2,4,6-trimethyl-benzene: Which methyl groups are quasi-free rotors in the crystal?. *Phys. Chem. Chem. Phys.* 23(37), 21272–21285. https://doi.org/10.1039/D1CP02581C
17. Hamadneh, I., Al-Mobydeen, A., Hannoon, F., Abu Jaber, A., Albuqain, R., Alsotari, S., Al-Dujaili, A.H., 2021. Arsenite adsorption on biochar-based nano copper oxide composites using Mediterranean cypress cones: Equilibrium, kinetic and thermodynamic studies. *Desalination and Water Treatment.* 221, 260-269. https://doi:10.5004/dwt.2021.27043.
18. Hamadneh, I., Al-Jundub, N., Al-Bshaish, A., and Al-Dujaili, A.H., 2021." Adsorption of La, Sm, Eu and Gd on raw and modified diatomaceous earth ", *Desalination and Water Treatment.* 215, 119-135. https://doi.org/10.5004/dwt.2021.26762
19. Al Khalyfeh, K., Taher, D., Helal, W., Korb, M., Hamadneh, I., Al-Dujaili, A.H., Imraish, A., Hammad, H., Al-As'ad, R., Abu-Orabi, S., Hildebrandt, A., Lang, H., 2020. " Synthesis and characterization of 1,4-chalcogenesters bearing 5-membered heterocycles". *Journal of Chemical Sciences*, 132(1),117 https://doi.org/10.1007/s12039-020-01825-x
20. Haroun, A., Elnahrawy, A., Abou Hammad, A., Kamel, S., Hamadneh, I., Al-Dujaili, A.H., 2020, " Polyacetal/graphene/polypyrrole and cobalt nanoparticles

electroconducting composites ", *International Journal of Industrial Chemistry*. 11(4), pp. 223-234 (Q2). http://dx.doi.org/10.1007/s40090-020-00218-w

21. Hamadneh, I., Abu-Zurayk, R.A., and Al-Dujaili, A.H., 2020." Removal of phenolic compounds from aqueous solution using $MgCl_2$-impregnated activated carbons derived from olive husk: The Effect of Chemical Structures", *Water Science and Technology*, 81(11), 2351-2367. http://doi:10.2166/wst.2020.297
22. Abu-Zurayk, R.A., Hamadneh, I., Al-Dujaili, A.H., (2020). Preparation and Characterization of Polyethylene/Cellulose Composite with Diatomite and Bentonite as Nanofillers. *Polymer-Plastics Technology and Materials*, 59(5), 546-554. https://doi:10.1080/25740881.2019.1669652
23. Hamadneh, I., Alatawi, A., Zalloum, R., Albuqain, R., Alsotari, S., Khalili, F., Al-Dujaili, A.H., (2019). Comparison of Jordanian and standard diatomaceous earth as adsorbent for removal of Sm(III) and Nd(III) from aqueous solution. *Environmental Science and Pollution Research*, 26(20), 20969-20980. https://doi:10.1007/s11356-019-05294-9
24. Hamadneh, L., Sabbah, D., Hikmat, S., Al-Samad, L., Hasan, M., Qirim, T., Hamadneh, I., Al-Dujaili, A., 2019, " Hypolipidemic Effect of Novel 2,5-bis(4-hydroxybenzylidenamino)-1,3,4-thiadiazole as Potential Peroxisome Proliferation-Activated Receptor-α Agonist in Acute Hyperlipidemic Rat model" *Molecular and Cellular Biochemistry*, 458(1-2), pp:39-47
25. Hamadneh, L., Hikmat, S., Al-Samad, L., Huwaitat, R., Hamadneh, I., Al-Dujaili, A., 2019, " Synthesis, Characterization and Antimicrobial Activity of Novel Symmetrical and Unsymmetrical Thiadiazol Derivatives as Potential Carbonic Anhydrase Inhibitor in E. Coli." *Journal of Global Pharma Technology***,** 11(02), pp:171-180.
26. Hamadneh, I., Alhayek, H., Al-Mobydeen, A., Abu Jaber, A., Albuqain, R., Alsotari, S., Al-Dujaili, A.H., (2019). Synthesis and Characterization of Yttrium Oxide, Copper Oxide and Barium Carbonate Nanoparticles Using Azadirachta Indica (the Neem Tree) Fruit Aqueous Extract. *Egyptian Journal of Chemistry* , 62 (4), 973-981. Doi: 10.21608/EJCHEM.2018.5281.1469.
27. Haroun, A., Kamel, S., Elnahrawy, A., Hamadneh, I., (2019). Rational design of cellulose/titanium dioxide nanocomposites. *Journal of KGK Kautschuk Gummi Kunststoffe.* 72(1-2), 44-48.
28. Mohammed, N.A.S., Abu-Zurayk, R.A., Hamadneh, I. And Al-Dujaili, A.H., (2018). Phenol adsorption on biochar prepared from the pine fruit shells: Equilibrium, kinetic and thermodynamics studies. *Journal of Environmental Management*, 226, 377-385. Doi: 10.1016/j.jenvman.2018.08.033
29. Elnahrawy, A.M., Haroun, A.A., Hamadneh, I., Al-Dujaili, A.H. And Kamel, S., (2017). Conducting cellulose/TiO_2composites by in situ polymerization of pyrrole. *Carbohydrate Polymers*, 168, 182-190. https://doi:10.1016/j.carbpol.2017.03.066.

30. Hanandeh, A.E., Abu-Zurayk, R.A., Hamadneh, I., Al-Dujaili, A.H., (2016). Characterization of biochar prepared from slow pyrolysis of Jordanian olive oil processing solid waste and adsorption efficiency of Hg^{2+}ions in aqueous solutions. *Water Science and Technology*, 74(8), 1899-1910. https://doi:10.2166/wst.2016.378
31. Sweileh, B.A., Khalili, F.I., Hamadneh, I., Al-Dujaili, A.H., (2016). Synthesis and characterization of new polyamides containing symmetrical and unsymmetrical thiadiazole rings. *Fibers and Polymers*, 17(2), pp. 166-173. https://doi:10.1007/s12221-016-5400-8
32. Hamadneh, I., Abu-Zurayk, R., Abu-Irmaileh, B., Bozeya, A., Al-Dujaili, A., (2016). Adsorptive of Pb(II) on Raw and Organically Modified Jordanian Bentonite. *Clay Minerals*, 50(4), 485-496. https://doi:10.1180/claymin.2015.050.4.05
33. Hamadneh, I.,Yaseen, N.,Abdallat, Y.,Hamadneh, L., Tarawneh, O., (2016). The Sintering Effect on the Phase Formation and Transport Current Properties of $SmBa_2Cu_3O_{7-\delta}$ Ceramic Prepared from Nano-Coprecipitated Precursors. *Journal of Superconductivity and Novel Magnetism***,** 29(3), 829-834. Doi: 10.1007/s10948-015-3341-x
34. Basel J., Hamadneh, I.,Khalili, F., Al-Dujaili, A., 2015, " Kinetic study on adsorption of fatty hydroxamic acids by natural clays", *Jordan Journal of Earth and Environmental Sciences*, 7(1), pp. 11 – 17.
35. Abu-Zurayk R., Al Bakain R., Hamadneh I., Al-DujailiA., (2015). Adsorption of Pb(II), Cr(III) and Cr(VI) from aqueous solution by surfactant-modified diatomaceous earth: Equilibrium, kinetic and thermodynamic modeling studies. *International Journal of Mineral Processing*, 140:79-87. doi:10.1016/j.minpro.2015.05.004.
36. El-Eswed, B.I., Yousef, R.I., Alshaaer, M., Hamadneh, I., Al-Gharabli, S.I., Khalili, F., 2015, "Stabilization/solidification of heavy metals in kaolin/zeolite based geopolymers", *International Journal of Mineral Processing*, 137, 34-42. doi: 10.1016/j.minpro.2015.03.002
37. Nazarudin, M.F., Zainal, Z. and Hamadneh, I., (2015). Synthesis of $ErBa_2Cu_3O_{7-\delta}$ superconducting ceramic material via co precipitation and conventional solid state routes. *Journal of Materials and Environmental Science*, **6**(2), 359-365.
38. Al Bakain, R., Abu-Zurayk, R., Hamadneh, I.,Khalili, F., Al-Dujaili, A., (2014). A study on removal characteristics of o-, m- and p-nitro phenol from aqueous solutions by organically modified diatomaceous earth. *Desalination and Water Treatment*. 56(3), 826-838. DOI: 10.1080/19443994.2014.944584
39. Suib, N.R.M. Mahmud, P.N.S.M. Yahya, S.Y.S., Jusoh, M.M., Hamadneh, I., 2014," Synthesis Of $Bi_{1.6}Pb_{0.4}Sr_2Ca_2Cu_3O_{10+\delta}$–$(Dy_2O_3)_x$Added With Magnetic Nanoparticles Dy_2O_3 Dysprosium Oxide ($0.0<x<0.1$) Via Co-Precipitation Method"*Advanced Materials Research* Vol. 832: 195-200

40. Hamadneh, I.,2014 "The Influence of Heat Treatment on The Formation and Transport Properties of $DyBa_2Cu_3O_{7-\sigma}$ Ceramics Superconductor Synthesized From Nano-Coprecipitated Powders" *Electron Mater Lett*. Vol. 10(3): 597-600
41. Hamadneh, I., Ahmad, A.M., Hamadneh, L. 2013, "Effect of Heat Treatment of $HoBa_2Cu_3O_{7-\sigma}$Ceramics Superconductor Synthesized from Nano-Coprecipitated Powders" *Journal of Modern Physics Letters***B,** vol. 27, no.16, pages 7.
42. Salam M. Habib • Ayed S. Amr • Imad M. Hamadneh, 2012 " Nanoencapsulation of Alpha-linolenic Acid with Modified Emulsion Diffusion Method", *J Am Oil Chem Soc*. Vol 89(4): 695-703
43. Wahid M.H., Zainal, Z., Hamadneh, I., Tan, K.B., Halim, S.A., Rosli, A.M., Alaghbari,E., Nazarudin, M.F., Kadri, E.F., 2012, " Phase formation of $REBa_2Cu_3O_{7-\delta}$ (RE: $Y_{0.5}Gd_{0.5}$, $Y_{0.5}Nd_{0.5}$, $Nd_{0.5}Gd_{0.5}$) superconductors from nanopowderssynthesised via co-precipitation ", *Ceramics International***, vol**38: 1187–1193
44. Alaghbari, E., Zainal, Z., Hamadneh, I., Hussein, M.Z., Wahid, M. H., 2012, " Effect of Doping of Zn and Ca into $ErBa_2Cu_3O_{7-\delta}$ Superconductor Prepared via Co-precipitation Method" *Journal of Superconductivity and Novel Magnetism***,** Vol. 25, (2),pp: 255-260
45. B. El-Eswed, R. Ibrahim Yousef, M. Alshaaer, I. Hamadneh and F. Khalili, 2012 "Adsorption Of Cu(II), Ni(II), Zn(II), Cd(II) And Pb(II) Onto Kaolin/Zeolite Based- Geopolymers," *Advances in Materials Physics and Chemistry*, Vol. 2 No. 4B, , pp. 119-125. doi: 10.4236/ampc.2012.24B032.
46. M. F. Nazarudin, Z. Zainal, W.T. Tan, I. Hamadneh& E.F. Kadri, 2012 " Abrasive Stripping Voltammetric (Abrsv) Studies of $ErBa_2Cu_3O_{7-\delta}$ Superconductor Syhthesised Via Co-Precipitation and Solid State Methods", *Int. J. Electrochem. Sci*., vol.7 **:** 2965 - 2982
47. Nazarudin, M.F., Hamadneh, I., Tan, W.T., Zainal, Z., 2011, "The effect of sintering temperature variation on the superconducting properties of $ErBa_2Cu_3O_{7-\delta}$ superconductor prepared via co-precipitation method "*Journal of Superconductivity and Novel Magnetism***,** vol 24, pp. 1745-1750
48. Hamadneh, I., Khalili, F., Shaaer, M., Ahmad, A.M., 2010, " Effect of Nano Sized oxalate Precursor on the Formation of $REBa_2Cu_3O_{7-\delta}$ (RE= Gd, Sm, Ho) Ceramic Via Coprecipitation Method" *Journal of Physics*: Conference Series, **.**vol **234** art. no 012016
49. E.F. Kadri, W.T. Tan, Z. Zainal and I. Hamadneh, 2010 " Voltammetric studies of $DyBa_2Cu_3O_{7-\delta}$ (DyBCO) prepared via solid stare (SS) and coprecipitation technique (COP) "**Solid State Science and Technology, Vol. 18 (1), pp.** *77-90*
50. Hamadneh, I., Ahmad, A.M., Wahid, M. H., Zainal, Z., Abd-shukor R. 2009, " Effect of Nano Sized Oxalate Precursor on the Formation of $GdBa_2Cu_3O_{7-\square\square\square}$ Phase via Coprecipitation Method" *Journal of Modern Physics Letters***B,** vol. 23, no.16, pp. 2063-2078.

51. Zainal, Z., Hui, L.K., Hussein, M.Z., Abdullah, A.H. and Hamadneh, I. 2009. "Characterization of TiO_2-Chitosan/Glass photocatalyst for the removal of a monoazo dye via photodegradation-adsorption process" *Journal of Hazardous Materials*, vol.164 (1), pp. 138-145.
52. Ewe, L S., Hamadneh, I., Salama, H., Hamid, N.A., Halim, S.A., Abd-shukor R. 2009, " Magnetotransport properties of $La_{0.67}Ca_{0.33}MnO_3$ with Different Grain Sizes" *Applied Physics A: Materials Science and Processing,* , vol. 95, no.2, pp. 457-463.
53. Ewe, L S., Hamadneh, I., Salama, H. A. Abd-shukor R. 2008, "Sound Velocity in Perovskite Manganites $La_{0.67}Ca_{0.33}MnO_3$ with Different Grain Sizes" *Physica B: Condensed Matter*, **403**(13-16), pp. 2394-2398
54. Marsom, E. S., Yahya, A. K., Hamid, N. A., Awang, Z., & Hamadneh, I. 2008. "Influence of Complexing Agent in Tl-Containing Sol-Gel Derived Precursor on Critical Temperature Enhancement of $Tl_{0.5}Pb_{0.5}Sr_{1.8}Yb_{0.2}CaCu_2O_7$ Superconductor". *Journal of Applied Sciences*, vol 8, pp. 2312-2317.
55. M. Mujaini, S. Y. Yahya, I. Hamadneh, and R. Abd. Shukor, 2008, "Synthesis of $YBa_2Cu_3O_{7-\delta}$ high temperature superconductor by coprecipitation method" American Institute of Physics: Conference Series, 1017, pp. 119-123.
56. Teo, S.L., Zainal, Z., Tan, W.T. and Hamadneh, I. 2008. "Potentiostatic Deposition of Copper Indium Disulfide Thin Films: Effect of Cathodic Potentials on the Optical and Photo electrochemical Properties". *The Malaysian Journal of Analytical Sciences*, vol 12, no 3, pp. 600 - 608
57. Hamadneh, I., Rosli, A.M., Abd-shukor R., Suib, N.R.M., Yahya, S. Y. 2008, " Superconductivity of $REBa_2Cu_3O_{7-\square}$ (RE= Y, Dy, Er) Ceramic Synthesized Via Coprecipitation Method" *Journal of Physics*: Conference Series, vol. 97, no. 1. art. no. 012063
58. Hamadneh, I., Agil, A.,Yahya, A.K.& Halim, S.A. 2007, "Superconducting properties of bulk $Bi_{1.4}Pb_{0.4}Sr_2Ca_{2-x}Cd_xCu_3O_{10}$ system prepared via conventional solid state and coprecipitation methods", *Physica C: Superconductivity and its Applications*, vol. 463-465, pp. 207-210.
59. Yahya, A.K.H., Abdullah, W.F., Hamadneh, I. &Jumali, M.H. 2007, "Changes in doping state of (Tl,Pb)Sr1212 superconductors with Yb substitution at Sr-site" *Physica C: Superconductivity and its Applications*, vol. 463-465, pp. 474-477.
60. Marsom, E.S.,Yahya, A.K., Hamid, A.N., Awang, A. and Hamadneh, I. 2007, "Effect of tartaric acid in Tl-containing Sol-Gel derived precursor on formation of $Tl_{0.5}Pb_{0.5}Sr_{1.8}Yb_{0.2}CaCu_2O_7$superconductor". *J. Solid St. Sci. Technol. Letts*, Vol. 14, no. 1, pp. 22-26.
61. Hamadneh, I., Zainal, Z.&Abd-Jalil, N.U.R. 2007, "Superconductivity of $DyBa_2Cu_3O_{7-\delta}$ ceramic synthesize Via coprecipitation method". *Science Putra*, vol. 15, no. 2, pp. 14-17.
62. Hamadneh, I., Hui, L.T. &Abd-Shukor, R. 2007, "Effect the sintering

temperature on the formation of (Tl, Cr)-1212 superconducting ceramic from coprecipitated oxalate precursors"*American Institute of Physics: Conference Series*, 909, pp. 137–141.

63. Hamadneh, I., Halim, S.A. & Lee, C.K. 2006, "Characterization of $Bi_{1.6}Pb_{0.4}Sr_2Ca_2Cu_3O_y$ ceramic superconductor prepared via coprecipitation method at different sintering time".*J. Mate Sci*, vol. 41, pp. 5526-5530.
64. Josephine, L.Y.C., Yunus, W.M.M., Abdul Wahab**,** Z.,Hamadneh, I.& Halim, S.A. 2006, "A study of dopant composition and sintering time effect on thermal diffusivity of doped and undoped BSCCO superconducting ceramics". *Pertanika Journal of Science & Technology*. vol. 14, no. 1&2, pp. 1-11.
65. Marsom, E.S., Yahya, A.K., Awang, Z. &Hamadneh, I. 2006, "Influence of complexing agents on phase formation and microstructure of sol-gel derived $Tl_{0.5}Pb_{0.5}Sr_{1.8}Yb_{0.2}CaCu_2O_7$ superconductor" *J. Solid St. Sci. Technol. Letts*, Vol. 13, no. 1, pp. 192-197.
66. Abd-Shukor, R., Yahya, S.S., Hamadneh, I.&Halim, S.A. 2006, "Transport Critical Current Density of Ag-Sheathed Bi-Sr-Ca-Cu-O Multifilament Superconductor Tapes with Magnetic Nanopowdersγ-Fe_2O_3" *Journal of Physics*: Conference Series, vol. 43, pp. 71–74.
67. Yahya, A.K., Ishak, A., Hamadneh, I.&Abd-Shukor. R. 2006, "Effect of Ho^{+3} substitution on ultrasonic attenuation in $HoBa_{2-x}Ho_xCu_3O_{7-\square}$ superconductor" *Materials Science Fourm*, vol. 517, pp. 17-20
68. Hamadneh, I.,Kuan, Y.W., Hui, L.T. &Abd-Shukor, R. 2006, "Formation of $Tl_{0.85}Cr_{0.15}Sr_2CaCu_2O_{7-\delta}$ superconductor from ultrafine co-precipitated powders", *Materials Letters*, vol. 60, no. 6, pp. 734-736.
69. Hamadneh, I., Halim, S.A. & Ping, T.Y. 2005, "Superconductivity of $YBa_2Cu_3O_{7-\square}$ ceramic synthesize Via coprecipitation method". *Science Putra*, vol. 13, no. 2, pp. 31-33.
70. Salleh, F.M., Yahya, A.K., Imad, H. &Jumali, M.H. 2005, "Synthesis and formation of TlSr1212 superconductors from coprecipitated oxalate precursors", *Physica C: Superconductivity and its Applications*, vol. 426-431, no. I, pp. 319-324.
71. Chik, A.; Salleh, S.; Goh, C.H.; Hamadneh, I.; Halim, S.A. &Dalimin, M.N. 2005, Structural, electrical and magnetic properties of $La_{O.67}Ca_{0.33}MnO_3$ ceramics prepared by co-precipitation method", *Proceedings of IEEE CNF - Asian Conference on Sensors and the International Conference on new Techniques in Pharmaceutical and Biomedical Research*, pp. 226 - 228
72. Yahya, N., Hamadneh, I., Hashim, M. & Mei, C.M. 2005 "the effect of variation of the bismuth content on the magnetic properties of $Y_{3-x}Bi_xFe_5O_{12}$ system"*J. Solid St. Sci. Technol.*, Vol. 13, no. 1&2: pp. 55-63.
73. Ahmad Kamal Yahya, Suzi Ahmad, Imad Hamadneh, Enhanced Levitation Force of Partial Melted (Y,Er)$Ba_2Cu_3O_{7-\square}$ Superconductors with Formation of Minor 211 Phase Science Letters, Faculty of Applied Sciences,

UniversitiTeknologi Mara, Vol. 2, Issue 1, 2005, pg. 31-39

74. Haydari, M., Moksin, M.M., Yunus, W.M.M., Grozescu, I.V., Hamadneh, I.& Halim, S.A. 2004, "Thermal diffusivity measurement of BSCCO superconductor from 85 K to 300 K using a PVDF transducer". *Pertanika Journal of Science & Technology*. vol. 12, no. 1, pp. 129-135.
75. Haydari, M., Moksin, M.M., Yunus, W.M.M., Grozescu, I.V., Hamadneh, I.& Halim, S.A. 2004, "Sintering time effect on thermal diffusivity in BSSCO doped with Sm at low temperatures as revealed by flash method", *Proceedings of SPIE - The International Society for Optical Engineering*, vol. 5581, pp. 315-322.
76. Ismail, M., Abd-Shukor, R., Hamadneh, I.& Halim, S.A. 2004, "Transport current density of Ag-sheathed superconductor tapes using Bi-Sr-Ca-Cu-O powders prepared by the co-precipitation method", *J. Mate Sci.*, vol. 39, no. 10, pp. 3517-3519.
77. Ismail, M., Abd-Shukor, R., Hamadneh, I.& Halim, S.A. 2004, "The influence of cooling rate on the critical current density of BSCCO-2223 Ag-sheathed superconductor tapes using powders prepared by co-precipitation method" *J. Solid St. Sci. Technol*. vol. 12, no. 1, pp. 65-70.
78. Salama, H.A., Halim, S.A., W.M. D.W. Yusof, Hamadneh, I., Yahya, N., Abdul Wahab**,** Z., Sainon, E.B. &, Gebrel, Z. 2004 . "A comparative study on the structural, magnetic and electrical properties of $La_{2/3}Ca_{1/3}MnO_3$ synthesize via co-precipitation method and solid state reaction"*J. Solid St. Sci. Technol*., Vol. 12, no. 1, p. 98-103.
79. Masrianis, A., Halim, S.A., Abd-Shukor, R., Hashim, M., Hassan, Z.A., Hamadneh, I., Jannah, A.N. &Iskandar,S.M. 2004 "Fabrication of multy filament Ag-sheathed $Bi_{1.6}Pb_{0.4}Sr_2Ca_2Cu_3O_y$superconductor tapes using oxalate precursor prepared by co-precipitation method" *J. Solid St. Sci. Technol. Letts*, vol. 11, no. 1, p 143-148.
80. Yahya, A.K., Abdullah, W.F., Jumali, M.H., Imad, H. &Abd-Shukor, R. 2004, "Superconducting and normal state behaviors of (Tl,Bi)$Sr_{2-x}Ti_xCa_{0.9}Y_{0.1}Cu_2O_7$ ceramics", *Ceramics International*, vol. 30, no. 7, pp. 1591-1595.
81. Yahya, A.K., Hamid, N.A., Abd-Shukor, R. & Imad, H. 2004, "Anomalous elastic response of $HoBa_{2-x}Ho_xCu_3O_{7-\delta}$ ceramic superconductors", *Ceramics International*, vol. 30, no. 7, pp. 1597-1601.
82. Salleh, F.M., Yahya, A.K., Imad, H. &Abd-Shukor, R. 2003, "Effects of Ag, Ag2O and AgNO3 addition on the superconducting properties of $Tl_2Ba_2CaCu_2O_8$", *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, vol. 98, no. 1, pp. 17-20.
83. Haydari, M., Moksin, M.M., Yunus, W.M.M., Grozescu, I.V., Hamadneh, I.& Halim, S.A. 2003, "A new photoflash technique for thermal diffusivity measurement of BSCCO superconductor from 300 K to below T_C temperature", *Jurnal Sains Malaysiana*, vol. 32, no. 2, pp.175-181.
84. Dihom, M. M., Halim, S.A., Chen, S. K., Hamadneh, I., . Gebrel, Z., Mat Yunus,

W. M., Zaidan, A. W. &Daud, W.M. 2003, "Study on the superconducting properties of Mn substituted YBCO", *J. Solid St. Sci. Technol.*, Vol. 11, no. 1, pp.59-65.

85. Hamadneh, I., Halim, S.A. Lee, C.K.& Hassan, Z.A. 2003," The influence of Samarium doping in $Bi_{1.6}(Pb_{0.4})Sr_{2-x}Sm_xCa_2Cu_3O_y$ prepared by coprecipitation method".*J. Solid St. Sci. Technol*., Vol. 11, no. 1, pp. 139 -146.
86. Yahya, A.K., Jaafar, F.L. Hassan, M. &Imad, H. 2003, " Effect of exess Er_2O_3addition on superconductivity and magnetic levitation force of $ErBa_2Cu_3O_{7-\square}$", *J. Solid St. Sci. Technol*. *Letts*, Vol. 10, no. 1, pp. 116-122.
87. Teh, C. L., Wahab, Z. A., Moksin, M. M., Halim, S. A., & Hamadneh, I. (2002). Flash Technique for Determining Thermal Diffusivity of Bi-based Superconductor. *JurnalFizik Malaysia*, *23*(1-4), 187-190.
88. Salleh, F.M., Yahya, A.K., Imad, H. &Abd-Shukor, R. 2002, " Effects of Ag addition on formation and properties of Tl-2212 superconductors ", *J. Solid St. Sci. Technol*., Vol. 10, no. 1&2, pp. 30- 36.
89. Hamadneh, I., Abdullah, I., Halim, S.A. &Abd-Shukor, R. 2002, "Dynamic magnetic properties of superconductor/polymer NdBCO/PVC composites", *Journal of Materials Science Letters*, vol. 21, no. 20, pp. 1615-1617.
90. Abd-Shukor, R., Abdullah, I. &Hamadneh, I. 2001, "Electrical properties and longitudinal modulus of superconductor/polymer $NdBa_2Cu_3O_{7-\delta}$/PVC composites", *Journal of Materials Science*, vol. 36, no. 4, pp. 853-857.
91. Hamadneh, I., Halim, S.A. Lee, C.K.& Hassan, Z.A. 2001,"Superconducting properties of Sm doped of Bi_x(Pb)-Sr-Ca-Cu-O via coprecipitation method ".*J. Solid St. Sci. Technol*., Vol. 9, no. 1&2, pp. 144 -149.
92. Taha, I.A., Halim, S.A., Daud, W.M. & Hamadneh, I. 2001, "Preparation and characterization of magnesium stannate (Mg_2SnO_4) by modified Sol-Gel Technique".*J. Solid St. Sci. Technol*., Vol. 9, no. 1&2, pp. 59 -64.
93. Mohamed,S.B., Halim,S.A., Azhan,Address:H., Malik, A.I. and Hamadneh, I. 2000, "Dynamic Magnetic Properties of Vanadium and Yttrium Doped BSCCO Superconductor", *J. Solid St. Sci. Technol*. *Letts*, Vol. 7, no. 1&2, pp. 49-55.

PROCEEDINGS

1. Hamadneh, I., Yousef, A., Nazarudin, M.F., 2014, " The Effect of Oxygenated Heat Treatment on the Formation of $ErBa_2Cu_3O_{7-\delta}$ Synthesized From Nano-Coprecipitated Powders. 4th International Workshop and Conference on Nanomaterials and Nanodenices, December 8-9, 2014-Cairo, Egypt.
2. Hamadneh, I., Rosli, A.M., 2012, "Effect of Heat Treatment of $HoBa_2Cu_3O_{7-\delta}$ ceramics superconductor synthesized from ultrafine co-precipitated powders**",** The 3rd ISESCO International Workshop and Conference on Nanotechnology 2012 (IWCN2012), 5-7 December, Malaysia

3. ElyasSadeq, Zulkarnain Zainal, Imad Hamadneh, Tan Wee Tee. 2010, " Preparation of Zn doped $ErBa_2Cu_3O_{7-\delta}$ Superconductor via Coprepitation" FUNDAMENTAL SCIENCE CONGRESS 2010 :CHEMISTRY SYMPOSIUM
4. Hamadneh, I., Khalili, F., Shaaer, M., Ahmad, A.M. 2010, " Effect of Nano Sized oxalate Precursor on the Formation of $REBa_2Cu_3O_{7-\square}$ (RE= Gd, Sm, Ho) Ceramic Via CoprecipitationMethod"The 9th European Conference on Applied Superconductivity, EUCAS 2009**,** was been held in Dresden, Germany, September 13-17, 2009.
5. Hamadneh, I., Rosli, A.M., Zainal, Z., Yahya, A.K., Jusoh, M.M., 2007, " Superconductivity of $REBa_2Cu_3O_{7-\square}$ (RE= Y, Gd and Sm) ceramics synthesized via coprecipitation method" *20th International Symposium on Superconductivity* (ISS2007), Nagoya, Japan, 04th -7th November.
6. Rosli, A.M., Jusoh, M.M., Hamadneh, I. 2007, "Synthesis of $HoBa_2Cu_3O_7$ superconductor ceramic via co-precipitation method" 23rd*Regional Conference of Solid State Science & Technology(RCSSST2007)*, 27-29th November.
7. Jusoh, M.M., Yaya, S.Y., Hamadneh, I., 2007, "The Effect Of Nanoparticles Aluminium Oxide, Al_2O_3 Addition In BSCCO System High Temperature Superconductor" 23rd*Regional Conference of Solid State Science & Technology(RCSSST2007)*, 27-29th November.
8. Liang, T. S., Zainal, Z., Tan, W.T., Hamadneh, I.,. 2007, "Effect of Number of Cycles on Copper Indium Disulfide Thin Films Prepared via Cyclic Voltammetric Deposition" 23rd*Regional Conference of Solid State Science & Technology(RCSSST2007)*, 27-29th November.
9. Suib, N.R.M., Yahya, S. Y, Hamadneh, I., 2007, "The Effect of Magnetic Nanoparticles Dy_2O_3 on Critical Current Density, Jc Superconductor System(Bi,Pb)-2223 " 23rd*Regional Conference of Solid State Science & Technology(RCSSST2007)*, 27-29th November.
10. Hamadneh, I., Rosli, A.M., Abd-shukor R., Suib, N.R.M., Yahya, S. Y. 2007 " Superconductivity of $REBa_2Cu_3O_{7-\square}$ (RE= Y, Dy, Er) Ceramic Synthesized Via Coprecipitation Method" *7th European Conference on Applied Superconductivity* (EUCAS07), Brussels, Belgium, 16th -20th October
11. Hamadneh, I. Ahmad, A. M., Zainal, Z., Ali., Suib, N.R.M. and Yahya, S. Y. 2007, "Superconductivity of $GdBa_2Cu_3O_{7-\square}$ Ceramic Synthesized Via Coprecipitation Method"*International Conference on Advancement of Materials and Naontechnology 2007 (ICAMN 2007)*, Langkawi Island, Malaysia, 29th May-1st June 2007.
12. Hamadneh, I. Agil, A.,Yahya, A.K.& Halim, S.A. 2006, "Superconducting properties of bulk $Bi_{1.4}Pb_{0.4}Sr_2Ca_{2-x}Cd_xCu_3O_{10}$ system prepared via conventional solid state and coprecipitation methods" *19th International Symposium on Superconductivity (ISS2006)*, Nagoya, Japan, 30th October-1st November.
13. Yahya, A.K.H., Abdullah, W.F., Hamadneh, I. &Jumali, M.H. 2006, "Changes in doping state of (Tl,Pb)Sr1212 superconductors with Yb substitution at Sr- site"

19th International Symposium on Superconductivity (ISS2006), Nagoya, Japan, 30th October-1st November.

14. Marsom, E.S., Yahya, A.K., Hamid, N.A.., Awang, Z&Hamadneh, I. 2006, "Effect of tartaric acid in Tl- containing sol-gel derived precursor on the formation of $Tl_{0.5}Pb_{0.5}Sr_{1.8}Yb_{0.2}CaCu_2O_7$ superconductor" *The Second International Conference on Solid State Science and Technology 2006 (ICSSST2006),Kuala Terengganu, Malaysia, 04th-06th September*
15. Hamadneh, I., Hui, L.T. &Abd-Shukor, R. 2006, "Effect the sintering temperature on the formation of (Tl, Cr)-1212 superconducting ceramic from coprecipitated oxalate precursors"*The Second International Conference on Solid State Science and Technology 2006 (ICSSST2006),Kuala Terengganu, Malaysia, 04th-06th September*
16. Hamadneh, I. & Halim, S.A. 2006, "Superconducting properties of bulk $Bi_{1.4}Pb_{0.4}Sr_2Ca_{2-x}Cd_xCu_3O_{10}$ system prepared via conventional solid state method" *The 19th Malaysian Analytical Chemistry Symposium SKAM19 2nd Malaysian Conference on Catalysis (MyCat2)*, Melaka, Malaysia, 21st -24th August**.**
17. Zainal, Z., Hui, Lee.K., Hussein, M.Z., Abdullah, A.H. &Hamadneh, I. 2005 "Characterization of newly prepared TiO2-chitosan/ glass for the removal of a monoazo dye via the combination effect of photodegradation adsorption" *Proceedings of ATCi2005, Conference on Advanced Materials*, pp. 106 - 118
18. Hamadneh, I.**,** Yahya,N. &Halim, S.A. 2005, "Superconducting properties of Sm substitution in $Bi_{1.6}Pb_{0.4}Sr_2Ca_{2-x}Sm_xCu_3O_\delta$ ceramics prepared via coprecipitation method ", *Proceedings of JICEC05, Jordan International Chemical Engineering Conference V, Jordan, 12-14 September*, pp. 106 - 118
19. Salama, H.A., Halim, S.A., Hamadneh, I.**,**Yahya,N. &Zaidan, A. W. 2005, "The structural, Magnetic and electrical properties of $La_{0.67}Ca_{0.33}MnO_3$ synthesize via coprecipitation (COP) and conventional powder (CMP) methods", *Proceedings of JICEC05, Jordan International Chemical Engineering Conference V, Jordan, 12-14 September*, pp. 106 - 118
20. Abd-shukor R., Yaya, S.Y., Jumali, M.H., Hamadneh, I., **&**Halim, S.A., 2005 "Transport critical density of Ag-sheathed Bi-Sr-Ca-Cu-O multifilament superconductor tapes with magnetic nanopowders Gamma-Fe_2O_3" *7th European Conference on Applied Superconductivity*, Vienna, 11-15 September
21. Yahya, A. K., Ishak**,** A. Hamadneh, I.&Abd-Shukor, R.. 2005, "Effects of HO^{3+} substitution on ultrasonic attenuation in $HoBa_{2-x}Ho_xCu_3O_{7-\delta}$ superconductors", *ICFM, International Conference on Functional Materials and Devices Kuala Lumpur, Malaysia 6-8 June.*
22. Hui, L.T., Abd-Shukor, R. &Hamadneh, I. 2005, "Synthesis and Characterization of $Tl_2Ba_2Ca_2Cu_3O_{10-\delta}$ Superconductor Prepared via Co precipitation Method"*International Meeting on Frontiers of Physics*, Kuala Lumpur, Malaysia, 25-29 July.

23. Hamadneh, I.Halim, S.A., Irmawati, R. Lee, C.K. & Hassan, Z.A. 2004, "Synthesis and characterization of $Bi_{1.6}Pb_{0.4}Sr_2Ca_2Cu_3O_y$ ceramic superconductor prepared via coprecipitation method at different sintering time" *Fourth International Conference on Inorganic Materials*, Antwerp, Belgium, 19-21 September.
24. Irmawati, R., Muhamad,E.N., Hamadneh, I., Abdullah, A.H., Taufiq-Yap, Y.H. & Abdul Hamid S.B. 2004, "Synthesis and characterisation of nanocrystallineCuO powders" *Fourth International Conference on Inorganic Materials*, Antwerp, Belgium, 19-21 September.
25. Hamadneh, I.&Halim, S.A. 2004,"Superconducting properties of Sm substituted $Bi_{1.6}Pb_{0.4}Sr_2Ca_{2-x}Sm_xCu_3O_\delta$ ceramics prepared via coprecipitation method"*STTT'04, Superconductivity Theory and Tapes Technology Workshop*,UiTM, 28–30 April.
26. Zainal, Z., Hui, Lee.K., Hussein, M.Z., Abdullah, A.H. &Hamadneh, I. 2004 " Effect of biopolymer coated titanium dioxide photocatalyst loading on the removal efficiency of methyl orange" *Proceeding of the Regional conference for young Chemists2004* at UniversitiSains Malaysia, Penang, 13th-14th April
27. Haydari, M., Moksin, M.M., Yunus, W.M.M., Grozescu, I.V., Hamadneh, I.& Halim, S.A. 2003, "Sintering time effect on thermal diffusivity in BSSCO doped with Sm at low Temperature". *Proceeding of 7th International Conference on Optics(ROMOPTO2003)*, Romania 08-11 September.
28. Hamadneh, I.Agial, A. & Halim, S.A. 2003, "Influence of Cadmium doping on the Microstructure properties of YBCO at Ba and Cu sites" *Update on Microscopy &Microanalysis*, 28-29May, pp: 46-49.
29. Dihom, M. M., Halim, S.A., Hamadneh, I.,Azis, R.S., Mat Yunus, W. M., Zaidan, A. W. &Daud, W.M. 2003. "Effect of Mn doping in YBCO Ceramics Superconductors"*Proceedings, 5th Putra Physics Seminar* 2003, 175-182.
30. Jannah, A.N., Halim, S.A., S.A. Halim, Daud, W.M., Zukifly, A., Lim, K.P., Hamadneh, I.,&Walter, C.P. 2003, " Preparation and Characterisation of Bi-Sr-Ca-Cu-O- Film",*Proceedings, 5th Putra Physics Seminar*, 108-115.
31. Salama, H.A., Halim, S.A., Yahya, N., Abdul Wahab, Z., Hamadneh, I. &, Gebrel, Z. 2003, " Structure and Electrical Properties of $La_{2/3}Ca_{1/3}MnO_3$ Perovskite ", *Proceedings, 5th Putra Physics Seminar 2003*, 77-80.
32. Agial, A., Halim, S.A., Hamadneh, I.,Hassan, Z.A., &Sidek, H.A.A. 2003, "Effect of Cd doping in BSCCO Ceramics Prepared via Coprecipitation Method"*Proceedings, 5th Putra Physics Seminar 2003*, 29-35.
33. Dihom, M. M., Halim, S.A., Hamadneh, I.,Azis, R.S., Mat Yunus, W. M., Zaidan, A. W. &Daud, W.M. 2003, " Microstructure studies on Mn doping in YBCO prepared by conventional method ", *Proceedings,Seminar Update on Microscopy & Microanalysis*, 28-29May, pp: 62-63.
34. Dihom, M. M., Halim, S.A., Chen, S. K., Hamadneh, I., . Gebrel, Z., Mat Yunus, W. M. &Zaidan, A. W. 2003, " Superconductivity of $YBa_2Cu_3O_{7-\square}$doped with

Mn in Y sites", *Proceedings, Advance Technology Congress* 20-21 May. CD. No. of pages 1-6.

35. Haydari.M., Moksin, M.M., Yunus, W.M.M., Grozescu, V.I., Hamadneh, I.,& Halim, S.A. 2003, "The effect of Sm concentration on thermal diffusivity in Bi, Sr and Cu site of BSCCO superconductor at room temperature", *Proceeding, 12th Scientific Conference & 13th Annual General Meeting of the Electron Microscopy Society of Malaysia*: 98-104.
36. Ismail, I. Y., Lim, L.P., Hamadneh, I., Halim, S.A. & Tan,W.T. *2003,*"Electrochemical Reduction of Yttrium Manganese Barium copper Oxide. ($YMn_xBa_2Cu_3O_{7-x}$) Microparticles Mechanically Attached to a Carbon Electrode Surface" *Abstrak, Seminar Kimia Industri* IX 2003, 27.
37. Shaiboub, R.E., Halim, S.A., Yahya, N.,Zaidan, A. W,Hamadneh, I.,Kabashi, K.K., Gebrel, Z., Saion, E.B. &Daud, W.M, 2003."Electrical and Magnetic Properties of Sn Doping in $La_{0.67}Ca_{0.33}Mn_{1-x}Sn_xO_3$ Manganite Perovskite", *Proceedings of Advanced Tecnology Congress 2003(ATC 2003)*, CD. No. of pages 1-6.
38. Yahya, A.K., Hamid, N.A., Abd-Shukor, R. &Imad, H. 2003, "Anomalous elastic response of $HoBa_{2-x}Ho_xCu_3O_{7-\delta}$ ceramic superconductors", *2nd International Conference on Materials for Advanced Technology (ICMAT2003)*,7-12 December
39. Yahya, A.K., Abdullah, W.F., Jumali, M.H., Imad, H. &Abd-Shukor, R. 2003, "Superconducting and normal state behaviors of $(Tl, Bi)_{Sr2-x}TixCa_{0.9}Y_{0.1}Cu_2O_7$ ceramics*", 2nd International Conference on Materials for Advanced Technology (ICMAT2003)* Singapore,7-12 December
40. Chik, A., Halim, S.A., Sharmiwati, M. S., Gebrel, Z., Lim, K.P., Hamadneh, I., Kabashi, K.K., Azman, M. T., Mat Yunus, W. M.&Moksin, M.M. 2002, "Effect of Ga and In substitution for La in $La_{2/3}Ca_{1/3}MnO_3$ perovskite" *Malaysian Science and Technology* 19-21 September, 661-669
41. Gebrel, Z., Halim, S. A., Chik, A., Kabashi, K.K., Zainudin, H., Talib, Z.A., Hamadneh, I.,. Ahmed, I. &Dihom, M. M. 2002, " Magnetic and electrical properties of $(La_{(1-x)}Sm_x)_{0.67}Ca_{0.33}MnO_3$" *Malaysian Science and Technology* 19-21 Septembe2002, 254-260
42. Hamadneh, I.,. Halim, S.A., Lee, C.K. & Hassan, Z.A. 2002, "A comparison of the properties of Bi-2223 precursor synthesized by coprecipitation and solid state. " *Malaysian Science and Technology* 19-21 Septembe2002, 214-221.
43. Dihom, M. M., Halim, S.A., Chen, S. K., Hamadneh, I., Gebrel, Z., Mat Yunus, W. M. &Zaidan, A. W, "Superconductivity of $YBa_2Cu_3O_{7-}$ doped with Mn in Ba" *Malaysian Science and Technology*. 19-21 September, 678-685.
44. Halim, S.A., Hamadneh, I., Fazila, I.A., Faridah, M.A., Shukur, R. A. and Sidek, H.A.A., 2002 "Low cost fabrication of BSCCO superconducting tapes using powders prepared via coprecipitation method" *Malaysian Science and Technology*, 19-21 September, 687-685

45. Hamadneh, I., Halim, S.A., Lee, C.K. & Hassan, Z.A. 2002, W.Daud M. Yusoff, Abdullah Chik, H.Azhan and Z.A. Hassan, 2002 "Influence of sintering temperature on the superconducting properties of $Bi_{1.6}Pb_{0.4}Sr_2Ca_2Cu_3O$□□□ceramics prepared by coprecipitation method" *Prosiding Seminar KebangsaanSains,Teknologi&sains social*, Kuantan 27-28 May.Jilid 2, p298-304.
46. Chik, A., Halim, S.A., Lim, K.P., Hamadneh, I., Gebrel, Z. &Dihom, M. M. 2002 "Structural, Magnetic and electrical properties of $(La_{1-x}In_x)_{2/3}Ca_{1/3}MnO_3$" *Prosiding Seminar KebangsaanSains,Teknologi&sains social*, Kuantan 27-28 May, Jilid 2, p291-297.
47. Halim, S.A., Tien, C.Y., Hamadneh, I., Tarmizi, A.K.M., Azhan, H., M. D. Mustapha, Sidek, H.A.A., Daud, W.M., &Suradi, J. 2002, "Dynamicmagneticproperties of Doped YBCO superconductingceramics," *ProsidingSeminarKebangsaanSains,Teknologi&sains social*, Kuantan 27-28 MayJilid 2, p594-601.
48. Gebrel, Z., Halim, S. A., Chik, A., Hamadneh, I., Lim, K.P., &Daud, W.M., 2002 "Electrical and magneticproperties of Sm doped $La)_{2/3}Ca_{1/3}MnO_3$" *ProsidingSeminarKebangsaanSains,Teknologi&sains social*, Kuantan 27-28 May, pp: 310-313.
49. Hamadneh, I.,. Halim, S.A.,Lee, C.K. & Hassan, Z.A. 2002, "Superconducting properties of Samarium doped BSCCO prepared by coprecipitationmethod",*Proc. 2002 Postgraduate Seminar*, p131-138
50. Hamadneh, I.,. Halim, S.A.,Lee, C.K. & Hassan, Z.A. 2002, "Microstructure studies on samarium doping in $Bi_{1.6-x}Sm_xPb_{0.4}Sr_2Ca_2Cu_3O$□ prepared by coprecipitationmethod",*Seminar Update on Microscopy & Microanalysis*, 7-8 May, pp: 66-68.
51. Halim, S.A., Hamadneh, I.,., Lee, C.K. & Hassan, Z.A. 2001, "Ac Susceptibility Stydies in Bi-Sm-Pb- Sr- Ca- Cu-O Superconductors",*Presented at MASS 2001, Abstract in J. Solid State Science and Technol. Letts*, Vol 8(2): p15.
52. Hamadneh, I., Abdullah, I., S.A., Halim. &Abd-Shukor, R.. 2001, "Dynamic Magnetic Properties of Superconductor/Polymer NdBCO/PVC Composites" *International Conference on Materials for Advanced Technology (ICMAT2001*) Singapore 1-6 July, Abstract p319.
53. Halim, S. A., Koh, S.F., Lim K.P., Hamadneh, I.&Sidek, H.A.A. 2001, "Colossal Magnetoresistance of Zirconium Doped Manganite Perovskite" *International Conference on Materials for Advanced Technology (ICMAT2001)* Singapore 1-6 July. Abstract p118.
54. Keophylavong, S.A., Halim, S.A. Daud, W.M., Lim, K.P. Hamadneh, I. &Iftetan, A. (2001), "Dielectric Studies of Core- Shell Structure of Ba-Ti-O-(Nb-O)-(Cu-O) Ceramics" *Presented at MASS 2001, Abstract in J. Solid State Science and Technol. Letts*, Vol 8, No. 2 p70.
55. Halim, S.A., Hamadneh, I., Lee, C.K. &Hassan, Z.A. 2001, "Ac Susceptibility

Stydies in Bi-Sm-Pb- Sr- Ca- Cu-O Superconductors" *Presented at MASS 2001, Abstract in J. Solid State Science and Technol. Letts*, Vol 8, No. 2: p15.

56. Halim, S.A.,Tien, C.Y., Hamadneh, I., Lee, C.K., Mustafa, M.D., Sidek, H.A.A. &Suradi, J. 2001, "Superconductivity of $YBa_2Cu_3O_{7-\delta}$ doped with Mn in Cu sites" *Malaysian Science and Technology Congress* 8-10 October, 568-576
57. Hamadneh, I., Halim, S.A., Mohamed, S.B., Azhan, H., Lee, C.K. &Hassan, Z.A. 2000," Synthesis and development of Bi(Pb)-2223 superconductor via coprecipitation method"*Sixth Eurasia Conference on Chemical Sciences*, Brunei 27-29 February.
58. Azhan, H., Halim, S.A.,Mohamed, S.B., Malik, A. I., Hamadneh, I., Kaida, K. &Sidek, H.A.A. 1999, " AC Susceptibility Studies on Sn-doped BSCCO Superconductor" , *Presented at PersidanganSerantauSainsKeadaanPepejal ke-16*, Crown Princess Hotel, Penang.28-30 November
59. Hamadneh, I., Halim, S.A., Mohamed, S.B. &Azhan, H. 1999, "Studies of Bi(Pb)-2223 via coprecipitation method",*Proceedings, Malaysian Science and Technology Congress 99*, p368-373.
60. Hamadneh, I., Abd-Shukor, R.. & Abdullah, I. 1998. "Fabrication and characterization of $NdBa_2Cu_3O_{7-\delta}$ /PVC composites", *Graduate Colloquium*, UKM 17 December.

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