



CURRICULUM VITAE

PERSONAL PARTICULARS

Full Name : Imad (Moh'D Khair) Rashid Hamadneh

Date of Birth : 12th Sep. 1972

Place of Birth : Damascus/Syria

Sex : Male

Martial Status : Married

Nationality : Jordanian

Occupation : Assistant Professor at Department of
Chemistry, Faculty of science, University of
Jordan, 11942 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 EXPERIENCES

- Science teacher for the United Nations Relief and Works Agency for Palestinian Refugees in the Near East (UNRWA), Amman, Jordan from 16 September 1995 to 19 May 1997
- Research assistant in Faculty of Science and Technology, at Department of Chemistry (FST), Universiti Kebangsaan Malaysia, Bangi, Selangor, Malaysia from October 1997 to March 1999.
- Graduate Research Assistant for Prof. Dr. Abdul Halim Shaari in Superconductor and Material Science Lab, FSAS, UPM from June 1999 to February 2002.
- Post doctoral Fellow in Superconductor and Material Science Lab, Faculty of Science, Universiti Putra Malaysia from October 2002 to April 2003.
- Visiting Lecturer at Department of Chemistry, Faculty of Science, Universiti Putra Malaysia. Serdang, Selangor, Malaysia from 29th April 2003-28th March 2004.
- Contract Lecturer at Department of Chemistry, Faculty of Science, Universiti Putra Malaysia. Serdang, Selangor, Malaysia from 29th March 2004-15th Jan 2008
- Assistant Professor at Department of Chemistry, Faculty of Science, University of Jordan since 3rd February 2008.

SOCIETIES AND PUBLIC SERVICES

- Member of Jordanian Chemical Society (JCS), Amman, Jordan since 1994.
 - Life member of Malaysian Solid state Science and Technology Society (MASS). Malaysia since 2003.
 - Member of Royal Society of Chemistry (RSC), UK since 2007
 - Member of European Society for Applied Superconductivity, since 2007
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- مقرر اللجنة الفنية لدراسة العطاء المركزي ٢٠٠٨/٢٧٩ الخاص بتوريد وتركيب وصيانة الأجهزة العلمية (كلية العلوم).
 - عضو في اللجنة الفنية لدراسة العطاء المركزي (٢٠٠٩/٩٠) الخاص بتوريد وتركيب وصيانة جهاز الميكروسكوب الإلكتروني.
 - مقرر لجنة استلام العطاء المركزي (٢٠٠٩/٩٠) الخاص بتوريد وتركيب وصيانة جهاز الميكروسكوب الإلكتروني.
 - مقرر اللجنة الفنية لوضع مواصفات العطاء المركزي لكلية العلوم لعام ٢٠٠٩.
 - رئيس لجنة انتخابات اتحاد طلبة الجامعة الأردنية لقسم الكيمياء للعام الدراسي ٢٠١٠/٢٠٠٩
 - عضو في لجنة انتخابات اتحاد طلبة الجامعة الأردنية للعام الدراسي ٢٠٠٩/٢٠٠٨
 - عضو في لجنة مناقشة طالب الماجستير محمد علي محمد سلطان من قسم الكيمياء
 - عضو في لجنة مناقشة طالب الماجستير فيصل عمر مصطفى من قسم الكيمياء

Taught Courses:

Course	Description	Academic Year
303102	General Chemistry 2	2009-2010
303106	General Chemistry Lab	2009-2010
303109	General Chemistry Lab for non chemistry Major	2009-2010
303101	General Chemistry 1	2009-2010
303242	Thermodynamics	2009-2010
303243	Thermodynamics lab	2009-2010
303943	nanochemistry for postgraduate studies	2009-2010
303101	General Chemistry 1	2008-2009

303102	General Chemistry 2	2008-2009
303106	General Chemistry Lab	2008-2009
303109	General Chemistry Lab for non chemistry Major	2008-2009
303943	nanochemistry for postgraduate studies	2008-2009
303101	General Chemistry 1	2007-2008
303109	General Chemistry Lab for non chemistry Major	2007-2008

CURRENT ACADEMIC PROJECTS

- مشروع بحث مدعوم من عمادة البحث العلمي والمعنون ب:

“The Effect of Nano-sized Starting Powers on the Physico-chemical Properties of the RE123 Superconducting Ceramics prepared Via Co precipitation method”
 " تأثير المساحيق ذات الحجم النانوية على الخصائص الفيزيائية والكيميائية للمواد فانقة التوصيل و المحضرة بطريقة الترسيب المرافق " توصية رقم (2009-2008/74)

- مشروع بحث مدعوم من مركز حمدي منكو للبحوث والمعنون ب:

“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)”
 " تأثير المساحيق ذات الحجم النانوية على الخصائص الفيزيائية والكيميائية للمواد فانقة التوصيل و المحضرة بطريقة الترسيب المرافق (RE= Er, Dy, Yb) "

SUPERVISING STUDENTS

Name : ماجستير كيمياء/كلية العلوم :- باسل مصطفى محمود جعفر
 Title: Modification of Jordanian clay by using prepared fatty hydroxamic acids (FHA) from several vegetable oils.
 Status : on going

- As a co supervisor

Name: ماجستير تغذية/ كلية الزراعة - سلام محمد أحمد حبيب
 Title: Modelling the Stability of Nanoencapsulated Essential Poly Unsaturated Fatty Acid Thermally Treated by Microwave
 Status : on going

EXAMINER

Students Name	:	Jamarosliza Binti Jamaluddin
Matric No.	:	GS13722
Program	:	M.Sc
Title	:	Preparation of poly (styrene) grafted oil palm empty fruit bunch (OPEFB) fiber and its application as a filler for high impact polystyrene (HIPS) composites.
Status	:	Internal examiner/ 2006
Students Name	:	Ramadan Masoud Al-Habashi
Matric No.	:	GS14973
Program	:	M.Sc
Title	:	Preparation And Characterization Of Aluminum Substitute Yttrium Iron Garnet Nanoparticles Via Sol-Gel Technique.
Status	:	Chairman of the examination committee /2007
Students Name	:	Mohd Fairul Sharin Bin Abdul Razak
Matric No.	:	GS14448
Program	:	M.Sc
Title	:	Electrophoretic Deposition and characterization of copper selenide thin films
Status	:	Internal examiner /2007
Students Name	:	Nor Asrina Sairi
Matric No.	:	GS15641
Program	:	M.Sc
Title	:	Effect of dopants and mechanochemical treatment on vanadium phosphate catalysts for partial oxidation of n-butane to maleic anhydride
Status	:	Internal examiner /2007
Students Name	:	محمد علي محمد سلطان من قسم الكيمياء
Matric No.	:	-
Program	:	M.Sc
Status	:	Internal examiner /2009
Students Name	:	الماجستير فيصل عمر مصطفى من قسم الكيمياء
Matric No.	:	-
Program	:	M.Sc
Status	:	Internal examiner /2010

ACADEMIC AWARDS

- Gold Medal at UPM Invention and Research Exhibition for project titled: (*Effect of Doping in BSCCO and YBCO Bulk Superconductor*).2002
- Silver Medal at UPM Invention and Research Exhibition for project titled: (*Fabrication of Mono and Multi Filament Tapes Prepared Via Coprecipitation Methods*).2002
- Silver Medal at UPM Invention and Research Exhibition for project titled: (*Effect of Magnetic and Non Magnetic Elements Doped in Manganite*).2002
- Best SEM Micrograph at Seminar Update on Microscopy and Microanalysis.2002
- Second Prize for Poster Presentation at Seminar Update on Microscopy and Microanalysis.2002
- 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
- Best Poster Presentation at workshop Superconductivity Theory and Tapes Technology (STTT04). 2004.
- Certificate of excellent record (2003) from the Vice Chancellor Universiti Putra Malaysia
- Bronze Medal at Med Valley Exhibition Center,KL. 15th International Invention.Innovation, Industrial Design& Technology Exhibition (I.TEX) for project entitled (*Production of High Quality Bi(Pb)-Sr-Ca-Cu-O Superconductor Powders for Use in Tape Fabrication for Device Applications*).2004
- Gold Medal at EXPO Science, Technology & Innovation for 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
- Certificate of excellent record (2003) from the Vice Chancellor Universiti Putra Malaysia
- 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
- Certificate of excellent record (2004) from the Vice Chancellor Universiti Putra Malaysia
- Certificate of excellent record in teaching (2005) from Dean of faculty of science, Universiti Putra Malaysia

- Certificate of excellent record in research (2005) from Dean of faculty of science, Universiti Putra Malaysia
- Certificate of excellent record (2005) from Dean of faculty of science, Universiti Putra Malaysia
- Silver Medal at 17th International Invention, Innovation, Industrial Design & Technology Exhibition Malaysia (I.TEX 2006) for project entitled (*High-Current Density Ceramic Superconductor Tape*).2006
- 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
- Certificate of excellent record (2005) from the Vice Chancellor Universiti Putra Malaysia
- Certificate of excellent record in teaching (2006) from Dean of faculty of science, Universiti Putra Malaysia
- Certificate of excellent record in research (2006) from Dean of faculty of science, Universiti Putra Malaysia
- Gold Medal at Kulliyah of Engineering Research and Innovation Exhibition 2006 (KERIE'06) for project entitled: *Production of high purity of carbon nano tubes by using chemical vapour deposition (CVD)*. International Islamic University Malaysia.
- Best Poster Presentation at International Conference on Advancement of Materials and Nanotechnology 2007 (ICAMN 2007), Langkawi Island, Malaysia, 29th May-1st June 2007.
- Certificate of excellent record in teaching (2007) from Dean of faculty of science, Universiti Putra Malaysia
- Certificate of excellent record in research (2007) from Dean of faculty of science, Universiti Putra Malaysia
- Certificate of excellent record in overall achievements (2007) from Dean of faculty of science, Universiti Putra Malaysia.
- Gold Medal at UPM Invention and Research Exhibition (PRPI07) for project titled: (*Nano-sized precursors for superconducting ceramics synthesis*).2007
- 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
- Bronz Medal at UPM Invention and Research Exhibition (PRPI07) for project titled: (*Voltammetric Studies of Microcrystalline YBaCu₂O_{7-δ} Superconductor Mechanically Attached to a Carbon Electrode*).2007.

- Best Poster Presentation at 8th Annual meeting of Jordanian Chemical Society 2008 (**JCS8**), Amman, Jordan, 20th April 2008.
- Silver Medal at UPM Invention and Research Exhibition (PRPI09) for project titled: (The Roles of Magnetic Nanoparticles Addition in Bi-2223 Superconductor).2009.
- Bronz Medal at UPM Invention and Research Exhibition (PRPI09) for project titled: (Ceramics Superconductor REBa₂Cu₃O_{7-δ} (RE=Y,Dy & Er), Synthesis via Coprecipitation Method).2009.
- Silver Medal at UPM Invention and Research Exhibition (PRPI09) for project titled: (TiO₂-Chitosan/Glass Photocatalyst for the Removal of Monoazo Dye via Photodegradation -Adsorption).2009.

PUBLICATIONS

- Hamadneh, I.**, Khalili, F., Shaaer, M., Ahmad, A.M. 2010, " Effect of Nano Sized oxalate Precursor on the Formation of REBa₂Cu₃O_{7-δ} (RE= Gd, Sm, Ho) Ceramic Via Coprecipitation Method " *Journal of Physics: Conference Series*, vol. 234. 012016
- Hamadneh, I.**, Ahmad, A.M., Wahid, M. H., Zainal, Z., Abd-shukor R. 2009, " Effect of Nano Sized Oxalate Precursor on the Formation of GdBa₂Cu₃O_{7-δ} Phase via Coprecipitation Method" *Journal of Modern Physics Letters B*, vol. 23, no.16, pp. 2063-2078.
- 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}MnO₃ with Different Grain Sizes" *Applied Physics A: Materials Science and Processing*, , vol. 95, no.2, pp. 457-463.
- Zainal, Z., Hui, L.K., Hussein, M.Z., Abdullah, A.H. and **Hamadneh, I.** 2009. "Characterization of TiO₂-Chitosan/Glass photocatalyst for the removal of a monoazo dye via photodegradation-adsorption process" *Journal of Hazardous Materials*, vol.164 (1), pp. 138-145.
- Liang, T.S., 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

- Hamadneh, I.**, Rosli, A.M., Abd-shukor R., Suib, N.R.M., Yahya, S. Y. 2008, " Superconductivity of REBa₂Cu₃O_{7-δ} (RE= Y, Dy, Er) Ceramic Synthesized Via Coprecipitation Method" *Journal of Physics: Conference Series*, vol. 97, no. 1. art. no. 012063
- Ewe, L S., **Hamadneh, I.**, Salama, H. A. Abd-shukor R. 2008, "Sound Velocity in Perovskite Manganites La_{0.67}Ca_{0.33}MnO₃ with Different Grain Sizes" *Physica B: Condensed Matter*, **403**(13-16), pp. 2394-2398.
- Hamadneh, I.**, Agil, A., Yahya, A.K. & Halim, S.A. 2007, "Superconducting properties of bulk Bi_{1.4}Pb_{0.4}Sr₂Ca_{2-x}Cd_xCu₃O₁₀ system prepared via conventional solid state and coprecipitation methods", *Physica C: Superconductivity and its Applications*, vol. 463-465, pp. 207-210.
- 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.
- 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}CaCu₂O₇ superconductor". *J. Solid St. Sci. Technol. Letts*, Vol. 14, no. 1, pp. 22-26.
- Hamadneh, I.**, Zainal, Z.& Abd-Jalil, N.U.R. 2007, "Superconductivity of DyBa₂Cu₃O_{7-δ} ceramic synthesize Via coprecipitation method". *Science Putra*, vol. 15, no. 2, pp. 14-17.
- 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.
- Hamadneh, I.**, Halim, S.A. & Lee, C.K. 2006, "Characterization of Bi_{1.6}Pb_{0.4}Sr₂Ca₂Cu₃O_y ceramic superconductor prepared via coprecipitation method at different sintering time". *J. Mate Sci*, vol. 41, pp. 5526-5530.
- 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.

- 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.
- 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 Nanopowders $\gamma-Fe_2O_3$ " *Journal of Physics: Conference Series*, vol. 43, pp. 71-74.
- Yahya, A.K., Ishak, A., Hamadneh, I. & Abd-Shukor, R. 2006, "Effect of Ho^{+3} substitution on ultrasonic attenuation in $HoBa_{2-x}Ho_xCu_3O_{7-\delta}$ superconductor" *Materials Science Fourm*, vol. 517, pp. 17-20
- 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.
- Hamadneh, I., Halim, S.A. & Ping, T.Y. 2005, "Superconductivity of $YBa_2Cu_3O_{7-\delta}$ ceramic synthesize Via coprecipitation method". *Science Putra*, vol. 13, no. 2, pp. 31-33.
- 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.
- Chik, A.; Salleh, S.; Goh, C.H.; Hamadneh, I.; Halim, S.A. & Dalimin, M.N. 2005, "Structural, electrical and magnetic properties of $La_{0.67}Ca_{0.33}MnO_3$ 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
- 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.
- Haydari, M., Moksini, 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.

- Haydari, M., Moxsin, 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.
- 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.
- 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.
- 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 $\text{La}_{2/3}\text{Ca}_{1/3}\text{MnO}_3$ synthesized via co-precipitation method and solid state reaction" *J. Solid St. Sci. Technol.*, Vol. 12, no. 1, p. 98-103.
- 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 $\text{Bi}_{1.6}\text{Pb}_{0.4}\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_y$ superconductor tapes using oxalate precursor prepared by co-precipitation method" *J. Solid St. Sci. Technol. Letts*, vol. 11, no. 1, p 143-148.
- Yahya, A.K., Abdullah, W.F., Jumali, M.H., Imad, H. & Abd-Shukor, R. 2004, "Superconducting and normal state behaviors of $(\text{Tl,Bi})\text{Sr}_{2-x}\text{Ti}_x\text{Ca}_{0.9}\text{Y}_{0.1}\text{Cu}_2\text{O}_7$ ceramics", *Ceramics International*, vol. 30, no. 7, pp. 1591-1595.
- Yahya, A.K., Hamid, N.A., Abd-Shukor, R. & Imad, H. 2004, "Anomalous elastic response of $\text{HoBa}_{2-x}\text{Ho}_x\text{Cu}_3\text{O}_{7-\delta}$ ceramic superconductors", *Ceramics International*, vol. 30, no. 7, pp. 1597-1601.
- Salleh, F.M., Yahya, A.K., Imad, H. & Abd-Shukor, R. 2003, "Effects of Ag, Ag₂O and AgNO₃ addition on the superconducting properties of $\text{Tl}_2\text{Ba}_2\text{CaCu}_2\text{O}_8$ ", *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, vol. 98, no. 1, pp. 17-20.

- Haydari, M., Moxsin, 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.
- 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.
- Hamadneh, I.**, Halim, S.A. Lee, C.K. & Hassan, Z.A. 2003, " The influence of Samarium doping in $\text{Bi}_{1.6}(\text{Pb}_{0.4})\text{Sr}_{2-x}\text{Sm}_x\text{Ca}_2\text{Cu}_3\text{O}_y$ prepared by coprecipitation method". *J. Solid St. Sci. Technol.*, Vol. 11, no. 1, pp. 139 -146.
- Yahya, A.K., Jaafar, F.L. Hassan, M. & **Imad, H.** 2003, " Effect of excess Er_2O_3 addition on superconductivity and magnetic levitation force of $\text{ErBa}_2\text{Cu}_3\text{O}_{7-\delta}$ ", *J. Solid St. Sci. Technol. Letts*, Vol. 10, no. 1, pp. 116-122.
- Ling, T.C., Abd. Wahab, Z., Yunus, W.M.M., Moxsin, M.M., Halim, S.A. & **Hamadneh, I.** 2002, "Flash Technique for Determining thermal diffusivity of Bi- based Superconductor", *Jurnal Fizik Malaysia*, vol. 23, no. 1-4, pp. 187 – 190 () .
- 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.
- 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.
- Abd-Shukor, R., Abdullah, I. & **Hamadneh, I.** 2001, "Electrical properties and longitudinal modulus of superconductor/polymer $\text{NdBa}_2\text{Cu}_3\text{O}_{7-\delta}$ /PVC composites", *Journal of Materials Science*, vol. 36, no. 4, pp. 853-857.
- Hamadneh, I.**, Halim, S.A. Lee, C.K. & Hassan, Z.A. 2001, "Superconducting properties of Sm doped of $\text{Bi}_x(\text{Pb})\text{-Sr-Ca-Cu-O}$ via coprecipitation method ". *J. Solid St. Sci. Technol.*, Vol. 9, no. 1&2, pp. 144 -149.
- 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.

Mohamed,S.B., Halim,S.A., Azhan,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

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" The 9th European Conference on Applied Superconductivity, EUCAS 2009, Dresden, Germany, September 13-17, 2009.

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