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**Sohag University**

**Faculty of Science**

**Depart. of Physics**

**Curriculum Vitae**

Family Name: Aly

First Name: Ahmed Mohamed Ahmed

Sex: male

Nationality: Egyptian

Marital Status: Married

Permanent Institute: Physics Department, Faculty of Science Sohag

South Valley University

Sohag, Egypt

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Prep School -Sohag –Egypt

Field of Interest: Physics- Solid state

Semiconductor materials

Superconductor materials

Manganites

Education:

B.Sc. 1983 Faculty of Science- Sohag

M.Sc. 1989 Faculty of Science -Sohag

Ph.D. 1993 Faculty of Science -Sohag

**Scientific Employment and academic Responsibility:**

Demonstrator 1983- 1989 Physics department

Faculty of Science-Sohag

Lecturer Assistant 1989- 1993 Physics department

Faculty of Science-Sohag

Lecturer 1993- 2001 Physics department

Faculty of Science-Sohag

Professor Associate 2001 up 2006 Physics department

Faculty of Science-Sohag

# Professor 2006 up to now Physics department

Faculty of Science-Sohag

Head of department of physics 1-8-2011 to now

**Activity: Post doctor in Germany 27-5-200 to 27 -11-2000**

**Visiting and Training in Slovakia 20-6- to 19-7-2009**

**Post doctor in Spain 1-12-2013 to 30-9-2014**

**- March 2007- March 2010: Member of Implementation team of "Introduction New & Up-dating Courses of Material Science" (TEMPUS JEP-32064-2004), funded by European Union.**

**research projects**

**1-Principle investigator of**

*'Fabrication spin valve based on Manganites for technological applicatio*n' from (12-2012-to-31-1-2014) from Science and Technology development Fund 1-2-2011 -31-1-2013

Principle investigator of-2-

رفع القدرات والامكانات المعملية بكلية العلوم جامعة سوهاج

الممول أكاديمية البحث العلمى والتكنولوجيا مشروع رقم 6314

22/5/2020 الي 21/2/2022

**3-Principle investigator of**

**Development and Optimization of MnBi1-x thermoelectric materials by Sbx substitution**

**From Academy of Scientific Research and Technology 26/8/2020 to 25/2/2022.**

**4-Principle investigator of**

**ID : (45573)**

**titled ''Enhance the performance of second-generation power devices based on β−Ga2O3 Single Crystals''** **Science & Technology Development Fund**

**Activity**

**Share in "First Workshop& second workshop Introduction New & Up-dating Courses of Material Science"2008& 2009'.**

**- Share in "Second Workshop& Training School on Low Cost Applications of Plasma Technology in Industry and Environment" Al-Azhar University, Cairo–Egypt, 10th-15th November (2007).**

**International Conferences**

**-The sixteenth conference on solid state science, Jan., (1994), Merdian**

**Cairo,(Poster).**

**-The XX conference on solid state science, Nov. 5-9, (1997), Luxor.**

**-The magnetic materials and magnetism conference in Stuttgart Germany**

**Physmets (2001).1P164 abs (Oral)**

**-International Conference on Superconductivity and Magnetism in Antalya**

**Turkey 2010(Turkey) (oral)**

**-International Conference on Advanced Materials World Congress" in Izmir on**

**September 16-19, 2013. (Turkey) (poster & oral)**

**Journal's Committees or reviewers**

**- Referee in Journal of -Materials Chemistry and Physics**

**- Referee in Journal of Low Temperature Physics.**

**- Referee in Journal of Smart Material and Structure.**

***-* Referee in Physica status solidi B**

***-* Referee in *Results in physics***

**- A member of the Egyptian Society of Solid State Science.**

**- A member of the Committee of Graduate and Research Affairs.**

**- A trainer in Computer Science practical course.**

**Journal's editorial Board**

1. Heliyon
2. Material physics and Chemistry

**Supervision of thesis:**

**-Supervision of ten master thesis.**

**- Supervision of 5 PhD thesis.**

**Courses Taught:**

**-Metals, Introduction of Msc. students, Faculty of science.**

**-Experimental Physics of Msc. students, Faculty of science.**

**- Advanced solid state, fourth year students, Faculty of science and faculty of education.**

**- Metals and alloys Physics, second year, Faculty of science.**

**- Modern Physics, Second Year, Natural Science, Faculty of science.**

**-Physical Optics, Second Year, Physics & Chemistry, Faculty of science.**

**- Alternating Current, Second Year Students, Faculty of science.**

**- Properties of matter, First Year Students, Faculty of Education.**

**- General Physics, First Year Students, Faculty of Engineering.**

**- Electricity, second Year Students, Faculty of Education.**

**- Heat, First Year Students, Faculty of Education.**

**LIST OF PUBLICATION**

**1-Semimetallic Behaviour and thermoelectric Power of In Bi and In50Bi37.5Sb12.5 Alloys**. M. M. Ibrahim, E Kh. Shoker, M. M. Wakkad and A. M. Ahmed.Egypt J. sol. V 11,1(1991) 46.

**2- Conduction Behaviour of powder compacts based on the system YBaCuO**. M. M. Ibrahim, M.M.ABD EL-Raheem, E. Kh. Shoker, N. M. Megahid and A. M. Ahmed. The sixteenth conference on solid state science, Jan., (1994), Merdian Cairo,(Poster).

**3- Composition dependence of the D.C Electrical Resistivity of YBaCuO system.**

M. M. Ibrahim, M.M.ABD EL-Raheem, E. Kh. Shoker, M. M. Wakkad and A.M. Ahmed.The sixteenth conference on solid state science, Jan., (1994), Merdian Cairo, (Poster).

**4- Conduction Behavior and Electrical Resistivity of powder Compacts Based on**

**YBa2.5Cu3OX.**A. M. Ahmed Egypt J. sol. V. 19, 1, (1996) 47.

**5- Optical properties of evaporated Ge20Se80-xTIxthin films**. M.MAbd EL-Raheem, M .M. Wakkad, N. M. Megahid, A. M. Ahmed, E. Kh. Shoker& M. Dongol. J. Mater. Sci. 31(1996) 5759.

**6- Conduction Behaviour and Thermoelectric power of Bulk Samples of the**

**Ge40- xSnxSe60system.** M. M. Ibrahim, A. M. Ahmed and. N. M. Megahid,

Indian J. Pure &Appl.Phys. V34 (1996) 172.

**7- Effect of condition of preparation on the D.C Electrical Resistivity of YBaCuOPowder compacts.** M. M. Ibrahim, M.M.ABD EL-Raheem, E. Kh. Shoker&A. M. Ahmed. Sing, J. Phys. V13, 1, (1997) 49.

**8- Electrical Conduction of Tl20 Ge14 Se66**. N. M.Megahid, A. M. Ahmed and M. M. Ibrahim. Chinese J. Physics V35, 5(1997) 595-609.

**9- Composition, Temperature, and Bulk of dielectric Properties of YBaCuO powder Compacts**. M. M. Ibrahim, M.M. Abd EL-Raheem, E. Kh. Shoker and A. M. Ahmed. The XX conference on solid state science, Nov. 5-9, (1997), Luxor.

**10-Dielectric properties of GeSnSechalcogenide samples.** M.M.Ibrahim, A. M. Ahmed, N. M. Megahid& M. M. Abd EL-Raheem, Sing. J. Phys., V 13, 1, (1998) 11-25.

**11- Effect of Pb addition on Thermoelectric Power and Microhardness of Bi-Pb–Sr-Ca-Cu-O superconductors**. M. M. Ibrahim, S. M. Khalil and A. M. Ahmed. J. Phys.&Chems.Solids, 61,(2000) 1553.

**12- Heat Conductivity of La1-xSrxMnO3 Surface layers.** I. El-Kassab, A. M. Ahmed, P.Mandal, K. Bearner, A. Kattwinkel and U. Sondermann, Physica B, 305, (2001) 233.

**13- Positive and negative magnetoresistance in mixed superexchange – double exchange systems.** K. Bearner, P. Mandal, A. Kattwinkel, A. M. Ahmed, R. V. Helmot, J. R. Sun and G.H. RaoPhysmets (2001).1P164 abs.

**14- Evidence for magnetic clustering around Ge-sites in fixed valence doped manganites La0.7Ca0.3Mn1-yGeyO3.** A. M. Ahmed, A. Kattwinkel, N. Hamad, K. Bearner, J. R. Sun, G. H. Rao. H. Schicketanz, P. Terzieff and I. V. Medvedeva. J. Magn. &Magn. Mater., 242- 245 (2002) 719.

**15-Correlation of magnetoresistance and thermoelectric power in valence-doped La0.7Ca0.3Mn1- xFexO3-δ compounds**. A.M. Ahmed, A. Kattwinkel, K. Bearner, C. P. Yang. J. R. Sun, G. H. Rao, Physica B, 324, (2002) 102.

**16- The energy gap in Bi2-x PbxSr2Ca2Cu3Oy superconductors with x (0.00≤ x ≤0.50).** A. Sedky and A. M. Ahmed. Chinese J. Phys. V41, 5 (2003) 511.

**17- Heat Conductivity of valence doped La0.7Ca0.3Mn1-x FexO3**-δ. A.M. Ahmed, M. Boshta, R. Braunstein, V. Morchshakov, K. Bearner, C. P. Yang, J. R. Sun, G. H. Rao. J. Alloys & Compounds, 348 (2003) 23.

**18- Superconducting properties of K0.2 Ba0.5 Y0.3CuOx powder compacts**. A.M. Ahmed. Indian J. Pure & Applied Phys., v41, (2003) 646.

**19- Electrical transport in amorphous Ge14Se86-xTlx system.** A.M. Ahmed, N. M. Megahidand M. M. Ibrahim. Indian J. Pure & Applied Physics 41, (2003) 863.

**20- Recurrent behaviour of magnetisation and resistivity in Ge-substituted La0.7Ca0.3MnO3.** A.M. Ahmed, V. Morchshakov, K. Bearner, C. P. Yang, P. Terzieff, H. Schicketanz, T. Gron, J. R. Sun and G. H. Rao. Physics Status Solidi (a) 200, 2, (2003) 407.

**21- Thermoelectric power and Electrical Conduction Behaviour of Bi2Ge2Se2Cu3Ox**M. M.Ibrahim, H.A. Abd El- Ghanny and A. M. Ahmed, Chinese J. Phys. V42, 4-I (2004) 371.

**22- Bi-doping effects on the transport properties in La0.7-xBixSr0.3MnOy.**

A.M. Ahmed. Physica B, 352, (2004) 330-336.

**23-Conduction behaviour and thermoelectric power of Agx (As0.4Se0.6) 100-xchalcogenidesystem**. A.M. Ahmed, N. M. Megahid, M. M. Wakkad and A. K. Diab. J. Phys.&Chems. Solids., 66(2005) 1274.

**24- Electrical conductivity and thermoelectric power of Ge40Te60 and Ge38Sn2Te60 alloys.** A.M. Ahmed. Indian J. Pure & Applied Phys., v 43, (2005) 535-541.

**25- Crystal structure and some transport properties of Na-doped LaMnOy**. A. M. Ahmed, S. A. Saleh, E. M. M. Ibrahim, and H. F. Mohamed. J. Magn. &Magn. Mater. 301 (2006)452.

**26- Structural and optical properties of Ge-As-Te thin films. S.H. Mohamed**,A.

M. Ahmed, M. M. Wakkad and A. K. Diab. Eur. Phys.J. Appl. Phys. 34(2006)

165.

**27- Vacuum heat treatment effect on the thermophysical properties of BSCCO**

**System**. S. M. Khalil and A. M. AhmedPhysica C 452 (2007) 21

**28-Transport properties of Ga0.45 In0.55Sb** M. M. Abd El-Raheem, M. M. Ibrahim, A. M. Ahmed, M. R. Ahmed, Egypt. J. Solids, Vol. (30), No. (1), (2007) 31.

**29- The effect of annealing process on the physical properties of La1-xNaxMnOy**. A.M. Ahmed, S.A. Saleh, E.M.M. Ibrahim, E. Bontempib, H.F. Mohamed J. Magn. &Magn. Mater. 320 (2008) L43.

**30- The electrical properties of sintered compacts of BiSnSe2.** M. M. Abd El-Raheem, M. M. Ibrahim, A. M. ِِAhmed, S. A. Ahmed Egypt. J. Solids v77 30(2008)57.

**31- Effect of Li substitution on the resistivity and magnetoresistance of LaMnOy**A.M. Ahmed\*, A. K. Diab, H. F. Mohamed, accepted in International Conference on Superconductivity and Magnetism 2010(Turkey)

**32- Correlation of magnetoresistance and thermoelectric power in La1-xLixMnOy**

**Compounds.** A. M. Ahmed\*et al J. Electromagnetic Analysis and Applications3,(2011) 27.

**33-Effect of Li substitution on the resistivity and magnetoresistance of LaMnOy,** A. M. Ahmed\*, A. K. Diab, H. F. Mohamed, J. supercond. &Novel magnetisim 24, (2011) 597.

**34- Effect of composition on transport properties of Ge10AsxTe90−x chalcogenide system,**

A M Ahmed, M MWakkad, S H Mohamed\* an d A K Diab, Indian J. Physics, (April 2013) 87:317–323

**35- Electronic and magnetic properties of lithium doped lanthanum manganites**

1. M. Ahmed, G. Papavasilio, E. M. M. Ibrahim and H. F. Mohamed, Advanced Materials World Congress in Izmir on September 16-19, 2013 (Turkey) .

**36- Low- Field MR Behavior in La0.7Sr0.3MnO3/ZrO2 Composite System A. M.**

Ahmed, A. K. Diab, H. F. Mohamed, Abd El-Mo'ez. A. Mohamed, A. E. A.

Mazen, Aml M. Mohamed, Advanced Materials World Congress in Izmir

on September 16-19, 2013 (Turkey**)**

**37-   Magnetic and Electrical properties of Lanthanum Strontium Manganites**

**doped by Bi**, A. M. Ahmed, H. F. Mohamed, Martin Šoka,Low temp phys.

Vol. 40, N 5, (2014) 418.

**38- Synthesis and thermal stability of ZnO nanowires,** Madeha Ahmed Awad,

Eslam Mohamed MohamedIbrahim &AhmedMohamed Ahmed, J Therm Anal

Calorim , 117 (2014) 635-642

**39- Enhanced electro-magnetic properties in La0.7Sr0.3MnO3/ZrO2Composites**. AM Ahmed\*, H F Mohamed, A K Diab, Abd El-Mo’ez A Mohamed, A E A

1. Mazen and A M Mohamed, Indian J Phys, 89 (6),(2015) 561-570

**40- Enhanced low-field magnetoresistanceof La0.7Sr0.3Mn1–xNixO3 compounds**

**byannealing process.** A. M. Ahmed, M. A. Abedellateef, H. A. Abd El-

Ghanny, and Abd El Mo’ez A. Mohamed, Phys. Status Solidi A 212, No. 3,

(2015) 623–631

**41- Magnetoresistive properties of Ni-doped La0.7Sr0.3MnO3 manganites** Ahmed

Mohamed Ahmed, Abd El-Moez Ahmed Mohamed\*, MedhatAbdelradyAbdellateef, Hassan Ahmed Abd El-Ghanny, Rare Met., DOI 10.1007/s12598-015.

**42- Tuning the morphology of ZnO nanostructure by In doping and the associated**

**variation in electrical and optical properties.** Madeha A. Awad,

E. M. M. Ibrahim & A. M. AhmedCeramics International 41 (2015) 10116–10124

**43- Structural, magnetic and electronic properties on the Li-doped manganites.**

A.M.Ahmed , G. Papavassiliou, H. F. Mohamed, E. M. M. Ibrahim, J. Magn.

Mag. Mat 392(2015)27–41

**44-Magnetoresistive and magnetocaloric response of manganite/insulator**

**system,** Abd El Moez Mohamed, Victor Vega, MihailIpatov, Ahmed M.

Ahmed, , B. Hernando,J. all. Comp. 657 (2016) 495.

45- **The Effect of Temperature and Oxygen Flow Rate on the Morphology of ZnO Nanostructures,** M. A. Awad , A. M. Ahmed and E.M.M. Ibrahim, Int. J. New. Hor. Phys. **2**, No. 2, 59-61 (2015)

**45- One step syntheses of S incorporated ZnO nanowires**

**for photocatalysis applications,** Madeha Ahmed Awada, Eslam Mohamed

Mohamed Ibrahim, and Ahmed Mohamed Ahmed, Eur. Phys. J. Appl. Phys.72

(2015) 30303.

**46-** Annealing temperature effect on magnetic and magnetocaloric

properties of manganites,Abd El-Moez A. Mohamed, V. Vega, A. M. Ahmed, B. Hernando,Journal of Alloys and Compounds 665 (2016) 394-403

**47- Magnetocaloric-transport properties correlation indoped manganites** Abd El-Moez A. Mohamed, B.Hernando, A.M.Ahmed, Solid State Communications233(2016)15–17

**49- Influence of heat treatment on the magnetic and magnetocaloric properties in Nd0.6Sr0.4MnO3 compound ,**M. Ahmeda , H. F. Mohameda\*, A. K. Diaba, Sara A. Mohameda.S. GarciaGrandab, D. Martínez-Blancoc. **Solid State Sciences 57 (2016) 1-8**

**50- Effect of annealing temperature onelectrical and magnetic properties of (Nd0.6Sr0.4MnO3)1-x/(CrO3)x,** A. M. Ahmed\*, A. K. Diab, H. F. Mohamedand Sara A. Mohamed**, Int. J. New. Hor. Phys. 3, No. 2, 49-53 (2016)**

**51- Effect of annealing temperature on the magnetoresistive/insulator La0.7Ba0.3MnO3/NiO manganites** M. Ahmed, Abd El-Mo'ez A. Mohamed,H. F. Mohamed, A. K. Diab, Aml M. Mohamed, A. E. A. Mazen, Low Temp. Phys., 2016, v. 42, No. 9, pp. 951–958.

52- **Synthesis, characterization and low field magnetotransport of Nd0.6Sr0.4MnO3/ CrO3 composite, A M Ahmed, H F Mohamed, A K Diab and S A Mohamed, Indian J Phys (February 2017) 91(2):169–181**

53- **Magnetic, magnetocaloric and thermoelectric properties of nickel**

**doped manganites, Abd El-Moez A. Mohamed , B. Hernando b, A.M. Ahmed, J. All. Comp 692 (2017) 381e387**

54- **Tuning magnetoresistive and magnetocaloric properties via grain boundaries engineering in granular manganites, Abd El-Moez A. Mohamed, Mohamed A. Mohamed, V. Vega, B. Hernandoband A. M. Ahmed, RSC Advances, 6, (2016) 77284**

**55- Electrical, thermoelectrical and magnetic properties of approximately**

**20-nm Ni-Co-O nanoparticles and investigation of their conduction Phenomena , E.M.M. Ibrahim, Ahmed M. Abu-Diefb, A. Elshafaie, A.M. Ahmed, Materials Chemistry and Physics 192 (2017) 41-47**

**56- Electric, thermoelectric and magnetic characterization ofγ-Fe2O3and Co3O4**

**nanoparticles synthesized by facile thermal decomposition of metal-Schiff**

**base complexes, E.M.M. Ibrahim, Laila H. Abdel-Rahman, Ahmed M. Abu-Dief, A. Elshafaie, Samar Kamel Hamdan, A.M. Ahmed, Materials Research Bulletin 99 (2018) 103–108**

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| **57-** [**The electric and thermoelectric properties of Cu(II)-schiff base nano-complexes**](https://www.scopus.com/record/display.uri?eid=2-s2.0-85045442187&origin=resultslist&sort=plf-f&src=s&sid=e766667019e71a0a4117433043b515e8&sot=autdocs&sdt=autdocs&sl=17&s=AU-ID%287403429231%29&relpos=7&citeCnt=4&searchTerm=)**,** | |  | [Materials Chemistry and Physics](https://www.scopus.com/sourceid/17800?origin=resultslist)  192, pp. 41-47 |
| **Ibrahim, E.M.M.aEmail Author, Abdel-Rahman, L.H.b, Abu-Dief, A.M.b, Elshafaie, A.a, Hamdan, S.K.b, Ahmed, A.M,** [**Physica Scripta**](https://www.scopus.com/sourceid/29122?origin=resultslist)**, (2018) 93(5),055801**  **58-** [**Thermopower and magnetocaloric properties in NdSrMnO/CrO3 composites**](https://www.scopus.com/record/display.uri?eid=2-s2.0-85042283069&origin=resultslist&sort=plf-f&src=s&sid=e766667019e71a0a4117433043b515e8&sot=autdocs&sdt=autdocs&sl=17&s=AU-ID%287403429231%29&relpos=5&citeCnt=0&searchTerm=)**,** | |  | |
| **Ahmed, A.M., Mohamed, H.F., Paixão, J.A., Mohamed, S.A.,**  **2018 Journal of Magnetism and Magnetic Materials**  **456, pp. 217-222**  **59-** [**Magnetocaloric effect, electric, and dielectric properties of Nd 0.6 Sr 0.4 Mn x Co 1−x O 3 composites**](https://www.scopus.com/record/display.uri?eid=2-s2.0-85042690648&origin=resultslist&sort=plf-f&src=s&sid=e766667019e71a0a4117433043b515e8&sot=autdocs&sdt=autdocs&sl=17&s=AU-ID%287403429231%29&relpos=4&citeCnt=3&searchTerm=)   |  |  |  | | --- | --- | --- | | [**Abdel-Latif, I.A.**](https://www.scopus.com/authid/detail.uri?origin=AuthorProfile&authorId=6507907699&zone=)**,**[**Ahmed, A.M.**](https://www.scopus.com/authid/detail.uri?origin=AuthorProfile&authorId=7403429231&zone=)**,**[**Mohamed, H.F.**](https://www.scopus.com/authid/detail.uri?origin=AuthorProfile&authorId=56875863100&zone=)**, (...), [Ghozza, M.](https://www.scopus.com/authid/detail.uri?origin=AuthorProfile&authorId=57200962120&zone=" \o "Show author details), [Allam, S.](https://www.scopus.com/authid/detail.uri?origin=AuthorProfile&authorId=12243365100&zone=" \o "Show author details),**   |  |  | | --- | --- | | **2018** | [**Journal of Magnetism and Magnetic Materials**](https://www.scopus.com/sourceid/28526?origin=resultslist) **457, pp. 126-134** | | | |

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| **60-** [**Electric, thermoelectric and magnetic properties of Nickel (II) imine nanocomplexes**](https://www.scopus.com/record/display.uri?eid=2-s2.0-85049975688&origin=resultslist&sort=plf-f&src=s&sid=e766667019e71a0a4117433043b515e8&sot=autdocs&sdt=autdocs&sl=17&s=AU-ID%287403429231%29&relpos=3&citeCnt=2&searchTerm=)**,**  [**Elshafaie, A.**](https://www.scopus.com/authid/detail.uri?origin=AuthorProfile&authorId=57193536561&zone=)**,**[**Abdel-Rahman, L.H.**](https://www.scopus.com/authid/detail.uri?origin=AuthorProfile&authorId=6602638497&zone=)**,**[**Abu-Dief, A.M.**](https://www.scopus.com/authid/detail.uri?origin=AuthorProfile&authorId=36969028400&zone=)**, (...),**[**Ahmed, A.M.**](https://www.scopus.com/authid/detail.uri?origin=AuthorProfile&authorId=7403429231&zone=)**,**[**Ibrahim, E.M.M.**](https://www.scopus.com/authid/detail.uri?origin=AuthorProfile&authorId=34975087700&zone=) |

**2018 Nano ,13(7),1850074**

**61-** [**he synthesis of CuO and NiO nanoparticles by facile thermal decomposition of metal-Schiff base complexes and an examination of their electric, thermoelectric and magnetic Properties**](https://www.scopus.com/record/display.uri?eid=2-s2.0-85052328533&origin=resultslist&sort=plf-f&src=s&sid=e766667019e71a0a4117433043b515e8&sot=autdocs&sdt=autdocs&sl=17&s=AU-ID%287403429231%29&relpos=2&citeCnt=4&searchTerm=)**,** [**Ibrahim, E.M.M.**](https://www.scopus.com/authid/detail.uri?origin=AuthorProfile&authorId=34975087700&zone=)**,**[**Abdel-Rahman, L.H.**](https://www.scopus.com/authid/detail.uri?origin=AuthorProfile&authorId=6602638497&zone=)**,**[**Abu-Dief, A.M.**](https://www.scopus.com/authid/detail.uri?origin=AuthorProfile&authorId=36969028400&zone=)**, (...), [Hamdan, S.K.](https://www.scopus.com/authid/detail.uri?origin=AuthorProfile&authorId=57188802412&zone=" \o "Show author details),**[**Ahmed, A.M.**](https://www.scopus.com/authid/detail.uri?origin=AuthorProfile&authorId=7403429231&zone=)**,2018 Materials Research Bulletin, 107, pp. 492-497**

**62- Effect of NiO impurity on the magneto-transport properties of the La0.7 Ba0.3 MnO3 granular manganite, Mohamed, A.E.-M.A., Mohamed, A.M., ElShafaie, A., (...), Diab, A.K., Ahmed, A.M., 2018, Chemical Physics Letters, 713, pp. 272-276**

**63- Impact of aluminum on the Seebeck coefficient and magnetic properties of La 0.7 Ba 0.3 MnO 3 manganites, Mohamed, H.F., Ahmed, A.M., Diab, A.K., Omar, E.Y.,**

**(2019) Chemical Physics Letters, 726, pp. 22-28**

**64- Crossover effect of Magnetotransport and Magnetocaloric Effect in**

**(La0.7Ba0.3MnO3)1x/(Al2O3)x, A.M. Ahmed, H.F. Mohamed, A.K. Diab, Esraa Y. Omar,** [**J. Magn. . Magn. Mate.489**](https://www.scopus.com/sourceid/28526?origin=resultslist) **(2019)165388**