

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



قسم الفيزياء - كلية العلوم
جامعة القاهرة

Curriculum Vitae

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NameDr. Lotfi Zaki Ismail
Date of Birth27 February 1948
Marital Status.....Married
Highest Degree.....Ph D. degree
Date of Degree.....December -1978
Associate Prof.November-1987
ProfessorMay - 1993

Scientific Publication Fields :

1. Laser Physics
2. Laser Interactions with Matter
3. Plasma Physics
4. Photochemistry
5. Polymer Physics
- 6- Semiconductors & Superconductivity
- 7-Nano Materials

Scientific Visits and Cooperation's :

1. Laser Laboratory - Paris University , France
2. Laser Laboratory - Fluid Mechanics - Marseille , France
3. Plasma Physics Institute -KFA Julich , Germany
4. Plasma Physics Department - Bochom University, Germany

Establishment of Laboratories :

1. National Institute of Laser Science -Cairo University (Egypt)
2. Laser Science Laboratory - Qatar University (Qatar)

3. Scientific Montada for underground student (Univ. of Qatar)
4. Plasma Diagnostics and Laser Spectroscopy Diagnostics Automation Measurements In Situ .

Member of Scientific Organizing Committees :

1. Series of Winter Schools of Laser Physics Collaboration with France - Egypt
2. Series of Workshops for Plasma and Laser Physics Collaboration with Germany - Egypt .
3. First Workshop on Laser Physics and Applications (Univ. of Qatar - April 1993 , Qatar)
4. Second Workshop on Laser Physics and Applications (Univ. of Qatar -April 1994, Qatar)
5. Applications of Modern Technology for New Materials (Univ.of Qatar-Nov.1994, Qatar)

Coordinator of Continuing Education Committee (1993-1996):

- * Fulfilled 14 - Training Courses in different branches of science with the cooperation of Faculty of Science Departments (University of Qatar)

Member of Egyptian Society of Physics Committee (1980-1990).

Member of Egyptian Society of Mathematics Committee & Publication Secretary of Egyptian Proceeding of Mathematics (1980-1990)

Member of Quality Assurance Unit , Faculty of Science , Cairo University .

Publication List

Prof. Lotfi Zaki Ismail

1. A study of the (x, t) Reaction on ^{19}F , ^{27}Al , ^{51}V and ^{59}Co .
V. M. Lebedev, A. V. Spassky, I. B. Teplov, L. N. Fateeva and L. Z. Ismail
Nuclear Physics A, 298, 206(1978).
2. Effect of Changing the Laser Beam Area on Photon Drag Saturation
G. M. Ali, S. M. Montasser, L. Z. Ismail, S. M. Refaei and L. El-Nadi
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3. Saturation of the Photon Drag Voltage at High CO_2 Laser Intensities
G. AE-F. Ali, S. M. Montasser, L. Zaki, S. M. Refaei and L. El-Nadi
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4. Probe Investigation of Laser-Produced Plasma
A. M. Abdel Nasser, L. Zaki and L. El-Nadi
American Institute of Physics 146 (New York : 1986)
5. TEA CO_2 Laser Beam Absorption in Polyethylene

- G. Ali and L. Z. Ismail
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6. Potential Distribution in a Plasma Generated by Intense CO₂ Laser Pulses
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Egyptian J. Phys. 18 (2) , (1987)
7. The Optical Absorption Coefficient of Amorphous Polyethylene in 450-725 nm
L. Z. Ismail
J. of Polymer Testing (GB) 7, 299 (1987)
8. Laser-Induced Breakdown in Methanol-Gases Mixtures
L. El-Nadi, L. Z. Ismail , Yoser E. D. Gamal and G. A. Lateif
J. Laser Sci. & Technology, 1 (1) , 22 (1987)
9. Saturation of the Photon Drag Voltage at Liquid Nitrogen Temperature
M. El-Nabarawi, L. Z. Ismail , S. M. Montasser and F. Hammada
J. Laser Sci. & Technology, 1 (1) , 59 (1987)
10. Performance of Nd⁺⁺ -Phosphate Glass Laser
M. Atef Rada, L. Z. Ismail
J. Laser Sci. & Technology 2 (1988)31
11. Laser Induced Damage on Al - Targets
A. M. Abdel Nasser, L. Z. Ismail and L. El-Nadi
J. Laser Sci. & Technology 2 (1988) 31
12. Laser Induced Damage on Bi Foil
A. M. Abdel Nasser, L. Z. Ismail and L. El-Nadi
J. Laser Sci. & Technology 2 (1988) 26
13. Nonlinear Electrical Conductivity Induced in Amorphous Silicon by CO₂ Laser
M. Mounir, S. A. Khairy and L. Z. Ismail
Appl. Phys. Commun. (USA) ,10 (1&2), 51 (1990)
14. Nonlinear Transmission of Polycrystalline Polyethylene with Mode- Locked Dye Laser
L. Z. Ismail
J. of Polymer Testing, 9, 137 (1990)
15. CW He-Ne Laser Radiation-Induced Line Emission Amplification at 210 nm
L. Z. Ismail and T. M. Atawee
Infrared Phys. 31 (1) , 95 (1991)
16. Laser Interaction with Plasma Induced by Microwaves
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17. Time Characteristics of Fluorescence from CO₂ Laser - Induced Plasma
L. Z. Ismail
International Conf. on Phenomena in Ionized Gases , Ciocco-Italy, July (1991)

18. Absorption Transition of He-Ne Laser in Plasma Generated by Microwave
L. Z. Ismail
Infrared Phys. 33 (1) 47 (1992)
19. Pressure Dependence of the Electrical Potential and Electron Temperature in a Microwave
Generated Plasma
L. Z. Ismail and A. Abou El-Magd
IEEE Transactions on Plasma Science, 20 (2) , 57 (1992)
20. Low Pressure Argon Plasma Created by a Microwave Surface
F. F. Elakshar and L. Z. Ismail
Int. J. of Electronics, 73 (1), (1992)
21. Effect of Gamma-Irradiation on Thermoluminescence and Thermodynamic Parameters of LiKSO_4
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M. A. El-Kolaly, M. E. Kassem , A. A. Higazy, L. Z. Ismail and L. I. Al-Houty
Radiation Effects and Defects in Solids , Vol. 124, 437-442 (1992) .
22. Thermoluminescence and Dielectric Response of $\text{LiKSO}_4 : \text{Gd}$ to x - Radiation
M. A. El-Kolaly, M. E. Kassem, A. A. Higazy, L.Z. Ismail and L. I. AL-Houty
Radiate. Phys. Chem. Vol.44, No. 4, 441-446 (1994).
23. Novel Nitrogen Laser In Ring Cavity
L. Z. Ismail
International Conference on Lasers & Applications - NILES Cairo -March 1994
24. Spectroscopic Studies of Mercury Plasma under Different Metallic Vapor
L. Z. Ismail and Atef Eljoundi
Indian J. Physics, Vol. 34 (1996) 876 .
25. Rules of Metal Ions on Laser Interaction with a Conjugated Organic System
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26. Rule of Metal Ions on Laser Interaction with a Conjugated Organic System
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27. Radiative Fluorescence Lifetime of Rhodamin Doped PVC
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- 28 . Microwave Plasma Oxidation Technique for $\text{HoBa}_2\text{Cu}_{3-0.7-x}$ Ceramic Superconductor

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29. The Effect Of Oxygen Plasma Generated By Different Microwave Modes on $\text{NdBa}_2\text{Cu}_3\text{O}_{6+\delta}$ SUPERCONDUCTOR: STRUCTURE AND IR STUDIES
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10th International Ceramics Congress & 3rd Forum on New Materials
Florence, Italy, July 14-18, 2002 .
30. Effect of Host Medium on the Fluorescence Emission Intensity of Rhodamin B in Liquid and Solid Phase
M.Fikry, M. M. Omar , Lotfi Z. Ismail
Accepted in the Journal of Fliorescence (2009)
- 31 Effect of UV laser radiation on the physical properties of Nanostructure Thin Films Deposited by plasma Endanced Microwave, T.M.Ashour, M.M.Omar, Salah El- Dessouki, and Lotif Z. Ismail, Egyptian Journal of Phys Vol.4 , No. 2, (2010)
- 32 cd Se /ZnS nanocrystalline thin films deposited by plasma enhanced microwave
T . Ashour, M.M. Omar, S.Dousski, Lotfi Z. Ismail
Submitted for publication
32. Thermoluminescence of Locally Prepared Calcium Sulfate Phosphorous Doped by Rare Earth Elements after Gamma Irradiation, T.M. Morsi, S.K. Youssef, Lotfi Z. Ismail and M. A. Ell-Kolaly (2010).
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35. Electron Dynamics in Presence Waveguide, Accepteted for Publications in IEEE-Journal.
36. Electron Dynamics in Presence of Static Helical Magnet Inside Circular Waveguide. B.F. Mohamed, A. M. Gouda, and L. Z. Ismail. IEEE TRANSACTIONS ON PLASMA SCIENCE, VOL. 39, NO. 3, MARCH 2011.
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١- تطويع التقنيات الحديثة فى مجال التعليم المستمر والتنمية البشرية

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٢- الصناعات الصغيرة وتأثيراتها البيئية

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٤- الفيزيكا والبيئة

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