

Curriculum Vitae



Dean of Laser institute for postgraduate studies

Personal Details

Name: Kadhim Abdulwahid Aadim
Age: 51

Graduate Degree: Ph.D. Plasma Physics

Position: Professor

Address: University of Baghdad, Laser institute for postgraduate studies, Baghdad, IRAQ.

Mobile Phone: +964 7727781754

E-mail Address: kadhim.aadim@sc.uobaghdad.edu.iq

E-mail Address: kadhim.aadim@ilps.uobaghdad.edu.iq

Date of Birth: February 1, 1973

Place of Birth: Baghdad, IRAQ

Nationality: Iraqi

Marital Status: Married (Five Child)

Link Google Scholar: https://scholar.google.com/citations?user=-ZI_vVMAAAAJ&hl=ar

Link Research Gate: <https://www.researchgate.net/profile/Drkadhim-Aadim-2>

Link Scopus: <https://www.scopus.com/authid/detail.uri?authorId=56728936300>

Academic Qualifications

1. Ph.D. Plasma physics

University of Baghdad, Department of Physics, Baghdad - IRAQ (2010).

2. M.Sc. Thin films

University of Baghdad, Department of Physics, Baghdad - IRAQ (2002).

3.B. Sc. Physics

University of Mosul , Department of Physics, Mosul - IRAQ - Iraq (1998).

Employments

(Oct 26, 2003 – Oct 26, 2006)

•I have appointed as an assistant lecturer in the University of Baghdad, College of Science, Physics Department, Baghdad – IRAQ.

(Oct 26, 2006– December 25 2010)

•I promoted the scientific degree of Lecturer.

(December 25, 2010– July 23,2017)

•I promoted the scientific degree of Assistant Professor.

•I promoted the scientific degree of Professor

(July 23,2017)

Teaching Experiences

Undergraduate:

- Mechanics and Matter (1st class).
- Electric and Magnetism ((1st class).
- Mechanical lab (1st class).
- Descriptive electronics lab (2nd class).
- Digital electronics lab (2nd class).
- Electrical discharge (3rd class).

Postgraduate:

- Thin Films laboratory for postgraduate studies (MSc physics).
- Ionized gas physics (MSc physics).
- Special topic plasma diagnosis (MSc physics).
- advanced plasma physics(PhD Physics).

Laboratory Experience:

- Undergraduate laboratory in vacuum technology, laser, optics and semiconductor.
- Postgraduate laboratory in spectroscopy , thin films and plasam physics

Experimental technique:

- Thin Films Technique.
- UV-Vis-NIR Spectroscopy.
- Nanostructure Technique.
- Plasma medicine
- Solar Cells
- detectrors

Research Interests

- The Nanoparticles Research.
- Porous silicon
- Thin Films Devices.
- Analytical Spectroscopy.
- Plasma medicine
- Plasma diagnostis
- LIBS

EXPERIMENTAL SKILLS

Characterization Raman, Photoluminescence, UV-Vis-NIR Spectrophotometer, Atomic Force Microscopy (AFM), Scanning Electron Microscopy (SEM).

Fabrication Laser Ablation (LA), Thermal Evaporation Deposition, Porous silicon (PS).

Computers

- Software: Excel, Origin, Statistica Programme, ImageJ-SEM, Image analysis2-AFM.

Supervision

In field of nanotechnology , thin films devices, plasma physics and plasma medicine

- 38 M.Sc. Students.
- 35 PhD Student.

Patents

I have (11) patents

Publications



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Aadim, Kadhim A.

[University of Baghdad](#), Baghdad, Iraq

[56728936300](#)

<https://orcid.org/0000-0003-4533-5309>

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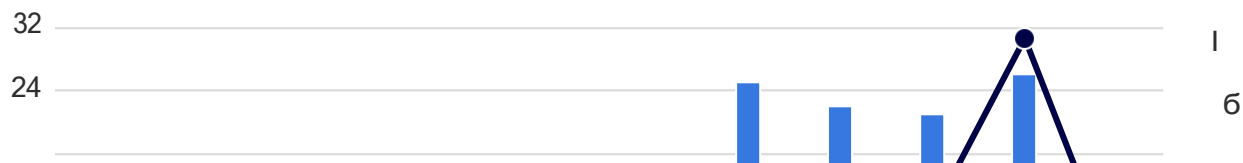
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Article • *Open access*

The effect of ZnSe Core/shell on the properties of the window layer of the solar cell and its applications in solar energy

Abdalameer, N.K., Mazhir, S.N., Aadim, K.A.

Energy Reports, 2020, 6, pp. 447-458

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Article

Optical properties of nanostructured ZnO prepared by a pulsed laser deposition technique

Jamal, R.K., Hameed, M.A., Adem, K.A.

Materials Letters, 2014, 132, pp. 31-33

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Article • *Open access*

Synthesis of CuO/ZnO and MgO/ZnO Core/Shell Nanoparticles with Plasma Jets and Study of their Structural and Optical Properties

Mohammed, R.S., Aadim, K.A., Ahmed, K.A.

Karbala International Journal of Modern Science, 2022, 8(2), pp. 213-222

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Citations

Conference Paper • *Open access*

Influence of Gas Flow Rate on Plasma Parameters Produced by a Plasma Jet and its Spectroscopic Diagnosis Using the OES Technique

Aadim, K.A., Mazhir, S.N., Abdalameer, N.K., Ali, A.H.

IOP Conference Series: Materials Science and Engineering, 2020, 987(1), 012020

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29

Citations

Article • *Open access*

Estimation of in vivo toxicity of MgO/ZnO core/shell nanoparticles synthesized by eco-friendly non-thermal plasma technology

Mohammed, R.S., Aadim, K.A., Ahmed, K.A.

Applied Nanoscience (Switzerland), 2022, 12(12), pp. 3783-3795

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28

Citations

Article • *Open access*

Zeta potential of Ag, Cu, ZnO, CdO and Sn nanoparticles prepared by pulse laser ablation in liquid environment

Naser, D.K., Abbas, A.K., Aadim, K.A.

Iraqi Journal of Science, 2020, 61(10), pp. 2570-2581

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Article • *Open access*

Studying the effect of annealing on optical and structure properties of ZnO nanostructure prepared by laser induced plasma

Mustafa, S.K., Jamal, R.K., Aadim, K.A.

Iraqi Journal of Science, 2019, 60(10), pp. 2168-2176

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27

Citations

Article • *Open access*

Spectroscopic analysis of CdO_x: Sn_x plasma produced by Nd:YAG laser

Khalaf, M.A., Ahmed, B.M., Aadim, K.A.

Iraqi Journal of Science, 2020, 61(7), pp. 1665-1671

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Conference Paper • *Open access*

Influence of laser energy on synthesizes of CdO/Nps in liquid environment

Aadim, K.A., Mohammad, A.Z., Abduljabbar, M.A.

IOP Conference Series: Materials Science and Engineering, 2018, 454(1), 012028

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Article • *Open access*

Diagnostics of zinc selenite plasma produced by FHG of a q-switchednd: Yaglaser

Abdaalameer, N.Kh., Mazhir, S.N., Aadim, K.A.

Chalcogenide Letters, 2021, 18(7), pp. 405-411

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23

Citations

Article • *Open access*

Synthesis and characterization of gallium oxide nanoparticles using pulsed laser deposition

Hameed, M.M., Al-Samarai, A.-M.E., Aadim, K.A.

Iraqi Journal of Science, 2020, 61(10), pp. 2582-2589

23

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Article • *Open access*

Influence of laser energy and annealing on structural and optical properties of CdS films prepared by laser induced plasma

Hussein, W.S., Fadhil Ahmed, A., Aadim, K.A.

Iraqi Journal of Science, 2020, 61(6), pp. 1307-1312

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Article • *Open access*

Silver Nanoparticles Synthesized by Nd: YAG Laser Ablation Technique: Characterization and Antibacterial Activity

Rashid, S.N., Aadim, K.A., Jasim, A.S.

Karbala International Journal of Modern Science, 2022, 8(1), pp. 71-82

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Citations

Conference Paper • *Open access*

Preparation Methods and Classification Study of Nanomaterial: A Review

Imran, H.J., Hubeatir, K.A., Aadim, K.A., Abd, D.S.

Journal of Physics: Conference Series, 2021, 1818(1), 012127

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Citations

Article • *Open access*

Spectroscopic study of AL nitrogen plasma produced by DC glow discharge

Ahmed, A.F., Aadim, K.A., Yousef, A.A.

Iraqi Journal of Science, 2018, 59(1C), pp. 494-501

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Article • *Open access*

Hydrogen gas sensors based on electrostatically spray deposited nickel oxide thin film structures

Jamal, R.K., Aadim, K.A., Al-Zaidi, Q.G., Taaban, I.N.

Photonic Sensors, 2015, 5(3), pp. 235-240

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Article • *Open access*

A novel method for ZnO@NiO core-shell nanoparticle synthesis using pulse laser ablation in liquid and plasma jet techniques

Imran, H.J., Hubeatir, K.A., Aadim, K.A.

Scientific Reports, 2023, 13(1), 5441

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Article • *Open access*

Spectroscopic Analysis of CdO: Fe Plasma Generated by Nd: YAG Laser | التحليل

المهلهة بهاسطة ليزر النديميهم ياك CdO: Fe الطيفي ل بلازما

Hussein, T.S., Ahmed, A.F., Aadim, K.A.

Iraqi Journal of Science, 2022, 63(2), pp. 548-555

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Article • *Open access*

Detection of laser-produced tin plasma emission lines in atmospheric environment by optical emission spectroscopy technique

Aadim, K.A.

Photonic Sensors, 2017, 7(4), pp. 289-293

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Article • *Open access*

Spectroscopic diagnosis of the CdO:CoO plasma produced by Nd:YAG laser

Shehab, M.M., Aadim, K.A.

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Iraqi Journal of Science, 2021, 62(9), pp. 2948-2955

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Article

Cytotoxic activity of green zinc selenide nanoparticles against Hep-G cell lines

13

Citations

Mazhir, S.N., Aadim, K.A., Al-Halbosiy, M.M.F., Abdalameer, N.Kh.

Indian Journal of Forensic Medicine and Toxicology, 2021, 15(1), pp. 2072-2078

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Article • *Open access*

Designing A zener diode using $Ag_{(1-x)}Zn_{(x)}/Psi$ structures deposited by laser induced plasma technique

13

Citations

Jamal, R.K., Ali, F.H., Hameed, M.M., Aadim, K.A.

Iraqi Journal of Science, 2020, 61(5), pp. 1032-1039

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Article • *Open access*

Spectroscopy Diagnostic of Laser Intensity Effect on Zn Plasma Parameters

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Citations

Generated by Nd: YAG Laser | التشخيص الطيفي لتأثير شدة الميزر عمى معاملات بلازما الزنك المتولدة بواسطة ليزر النديميوم باك

Mohammed, R.S., Aadim, K.A., Ahmed, K.A.

Iraqi Journal of Science, 2022, 63(9), pp. 3711-3718

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Article

Influence of laser energy on structural and morphology properties of CdO and CdO:Sn production by laser-induced plasma

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Ahmed, R.T., Ahmed, A.F., Aadim, K.A.

Journal of Optics (India), 2024, 53(2), pp. 1564-1573

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Article • *Open access*

Histological, haematological, and thyroid hormones toxicity of female rats orally exposed to CuO/ZnO core/shell nanoparticles synthesized by Ar plasma jets

Mohammed, R.S., Aadim, K.A., Ahmed, K.A.

Archives of Toxicology, 2023, 97(4), pp. 1017-1031

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Citations

Conference Paper

Estimation of plasma parameters in a DC atmospheric pressure Argon plasma jet

Mohammed, R.S., Aadim, K.A., Ahmed, K.A.

AIP Conference Proceedings, 2022, 2386, 080050

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Article • *Open access*

Synthesized Zinc Nanoparticles Via Pulsed Laser Ablation: Characterization and Antibacterial Activity

Rashid, S.N., Aadim, K.A., Jasim, A.S., Hamad, A.M.

Karbala International Journal of Modern Science, 2022, 8(3), pp. 462-476

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Citations

Article

Optical emission spectroscopic analysis of plasma parameters in tin-copper alloy co-sputtering system

Aadim, K.A.

Optical and Quantum Electronics, 2016, 48(12), 545

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Article • *Open access*

Investigate and Prepare silver Nano Particles Using Jet Plasma

Noori, A.S., Aadim, K.A., Hussein, A.H.

Iraqi Journal of Science, 2022, 63(6), pp. 2461-2469

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Conference Paper • *Open access*

Investigation the energy influence and excitation wavelength on spectral characteristics of laser induced MgZn plasma

Ahmed, K.A., Aadim, K.A., Mohammed, R.S.

AIP Conference Proceedings, 2021, 2372, 080004

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New Spectral Range Generations from Laser-plasma Interaction

Mahdi, S.S., Aadim, K.A., Khalaf, M.A.

Baghdad Science Journal, 2021, 18(4), pp. 1328-1337

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Conference Paper

Influence of laser energy on the characteristics of Ag S/ITO thin films solar cell prepared by PLD technique

Dwech, M.H., Aadim, K.A., Hamid, L.A.

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Spectroscopic Diagnosis of Cobalt Plasma Produced by OES Technique and Influence of Applied Voltage on Plasma Parameters | وتأثير الفولتية المسلطة على

OESالتشخيص الطيفي لبلازما الكوبالت الناتجة باستخدام تقنية معلمات البلازمReceived:

Abbas, I.K., Aadim, K.A.

Iraqi Journal of Science, 2023, 64(5), pp. 2271-2281

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Article • *Open access*

Synthesis and Study of Structural Properties of Calcium Oxide Nanoparticles Produced by Laser-Induced Plasma and its Effect on Antibacterial Activity

Abbas, I.K., Aadim, K.A.

Science and Technology Indonesia, 2022, 7(4), pp. 427-434

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Article • *Open access*

Synthesis and Investigation of the Structural Characteristics of Zinc Oxide Nanoparticles Produced by an Atmospheric Plasma Jet

Aadim, K.A., Abbas, I.K.

Iraqi Journal of Science, 2023, 64(4), pp. 1743-1752

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Conference Paper • *Open access*

Determination of plasma parameters and nanomaterial's synthesis of Zn and Mn using laser induced plasma spectroscopy

Aadim, K.A., Jassim, R.H.

AIP Conference Proceedings, 2021, 2372, 080014

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Conference Paper • *Open access*

Effect of laser fluencies on solar cell characterization of (CdO)_x:Sb_x/PSi thin films by laser induce plasma

Dwech, M.H., Aadim, K.A., Jihad, G.H.

IOP Conference Series: Materials Science and Engineering, 2020, 928(7), 072153

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Article • *Open access*

Influence of laser energy on the optical properties of AG s ito thin films prepared by the PLD technique

Hamid, L.A., Dwech, M.H., Aadim, K.A.

Ukrainian Journal of Physics, 2020, 65(2), pp. 179-183

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Conference Paper • *Open access*

The effect of a number of laser pulses on optical properties of CuO thin films deposited by pulsed laser deposited (PLD) technique at K

Dwech, M.H., Aadim, K.A., Mohsen, M.T.

AIP Conference Proceedings, 2019, 2144, 030024

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Article • *Open access*

Synthesis and fabrication of In O : CDO nanoparticles for NO gas sensor

Dahham, A.T., Aadim, K.A., Abbas, N.K.

Baghdad Science Journal, 2018, 15(3), pp. 292-299

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Effect of laser pulse energy on the optical properties of Cu O films by pulsed laser deposition

Aadim, K.A., Hussain, A.A.-K., Abdulameer, M.R.

Acta Physica Polonica A, 2015, 128(3), pp. 419-422

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Article • [Open access](#)

Characteristics of Lead and Sulfur Plasma Parameters by Optical Emission Spectroscopy

Ketan, M.J., Aadim, K.A.

Iraqi Journal of Science, 2023, 64(1), pp. 188-196

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Article • [Open access](#)

Impact of ZnO atomic ratio on structural, morphological and some optical properties of (SnO)_{1-x}(ZnO)_x thin films

Khudair, D.Y., Al Ansari, R.A., Tameem, M.K., Mohammed, G.H., Aadim, K.A.

Iraqi Journal of Science, 2020, 61(2), pp. 333-340

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Article

Preparation of Cobalt Oxide Nanoparticles by Atmospheric Plasma jet and Investigation of Their Structural Characteristics

Aadim, K.A., Abbas, I.K.

Egyptian Journal of Chemistry, 2023, 66(5), pp. 35-43

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Article • [Open access](#)

Determination of Electrons Temperature and Density For Ag, Zn, and Cu metals using Plasma jet System at atmospheric pressure

Aadim, K.A., Jihad, G.H.

Iraqi Journal of Science, 2022, 63(5), pp. 2039-2047

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Conference Paper • *Open access*

Optical Emission Spectroscopic Analysis of Plasma Parameters in Cadmium by Nd: YAG laser Technique

Tawfeeq, U.H., Abbas, A.K., Aadim, K.A.

Journal of Physics: Conference Series, 2021, 2114(1), 012049

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Conference Paper • *Open access*

Diagnostic analysis of Cu and CuZn plasma produced by Nd: YAG nanosecond laser at nm

Aadim, K.A., Ahmed, K.A., Mohammed, R.S.

AIP Conference Proceedings, 2021, 2372, 080018

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Conference Paper • *Open access*

Spectroscopic diagnostic of (Zn:NiO) plasma by laser induced breakdown spectroscopy

Abbas, A.K., Aadim, K.A., Jawaad, M.F.

AIP Conference Proceedings, 2021, 2372, 080013

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Article

Synthesis and Spectroscopic Characterization of Platinum Nanoparticles by Plasma Jet Method

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Citations

Adil, B.H., Aadim, K.A., Khalaf, M.A.

International Journal of Nanoscience, 2021, 20(3), 2150030

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Article • *Open access*

Improvement in mechanical properties and wear resistance of the nano composite PMMA / hydroxyapatite - Zirconia (HA-ZrO) by atmospheric plasma

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Citations

Saleh, S.H., Hashim, I.H., Aadim, K.A., Kareem, F.

Eurasian Journal of Analytical Chemistry, 2018, 13(5), em69

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Article

Removal of Dyes from Aqueous Solutions using Non-Thermal Plasma

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Mohammed, S.A., Al-Khazrajy, O.S.A., Abdallh, M., ... Al-Owaisi, H., Yousif, E.

Environmental Processes, 2023, 10(4), 63

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Article

Study of the characterization of CdTe thin films prepared by the pulsed laser deposition technique with different laser energies

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Kamel, N.S., Aadim, K.A., Kadhim, A.

Advances in Natural Sciences: Nanoscience and Nanotechnology, 2023, 14(2), 025015

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Article

Synthesis and Characterization of ZnO Nanoparticles by Pulsed Laser Ablation in Liquid Using Different Wavelengths for Antibacterial Application

3

Citations

Imran, H.J., Hubeatir, K.A., Aadim, K.A.

International Journal of Nanoelectronics and Materials, 2023, 16(2), pp. 345-358

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Conference Paper

Preparation of gold nanoparticles by laser ablation (Q-switched Nd: YAG laser-nm)

3

Citations

Noori, A.S., Aadim, K.A., Ali, A.H.

AIP Conference Proceedings, 2023, 2475, 090010

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Effect of Annealing Times on the Structural and Optical Properties of PbO

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Thin Films Prepared by D.C Sputtering | تأثير ازمنا التلدين على الخصائص التركيبية والبصرية لأغشية أكسيد الرصاص المحضرة بتقنية التريذ بالتيار المستمر

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Rauuf, A.F., Aadim, K.A.

Iraqi Journal of Science, 2023, 64(6), pp. 2877-2888

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Article • *Open access*


Effect of the Pulsed Laser Energy on the Properties of CdO: NiO Composite Thin Films for Solar Cell Applications

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Citations

Mahmood, K.D., Aadim, K.A., Hammed, M.G.

Iraqi Journal of Science, 2022, 63(3), pp. 1004-1017

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Article • *Open access*

Influence the number of laser pulses and annealing temperature and the Structure and optical properties of In O : CdO films prepared laser induce plasma

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Citations

Aadim, K.A., Abbas, N.K., Dahham, A.T.

Iraqi Journal of Science, 2018, 59(3), pp. 1567-1576

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Article

Characterization of cadmium sulfide/titania heterostructure films by utilizing microstructure and optical characteristics

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Citations

Mohsin, A.K., Bidin, N., Aadim, K.A.

Materials Science in Semiconductor Processing, 2016, 42, pp. 319-325

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Article • Article in Press

Optical and structural characterization of ZnO:NiO nano composite prepared by pulsed laser deposition method

2
Citations

Issa, M.A., Aadim, K.A.

Journal of Optics (India), 2024

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Conference Paper

The green synthesis of nano ginger-gold-silver and their medical effect on liver and kidney failure

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Citations

Noori, A.S., Ali, A.H., Aadim, K.A., Kadhim, Q.A.

AIP Conference Proceedings, 2023, 2834(1), 090030

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Article • *Open access*

Spectroscopic Study of Plasma Parameters Produced by Pin-Plate DC Discharge Technique

2
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Hussein, H.I., Aadim, K.A.

Iraqi Journal of Science, 2022, 63(3), pp. 971-976

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Conference Paper • *Open access*

Spectroscopic diagnostics of cadmium-sulfide plasma produced by laser induced plasma

2

Citations

Hashim, I.H., Aadim, K.A., Magid, H.C.

AIP Conference Proceedings, 2021, 2372, 080012

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Conference Paper • *Open access*

Diagnosis and analysis of laser induced plasma parameters for silicon carbide produced by Nd:YAG laser

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Aadim, K.A., Khalafand, M.A., Hussain, W.D.

AIP Conference Proceedings, 2021, 2372, 080010

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Article • *Open access*

Laser Intensity and Matrix Effect on Plasma Parameters for CuZn, Cu, and Zn Produced by Nd:YAG Laser

2

Citations

Mohammed, R.S., Aadim, K.A., Ahmed, K.A.

Acta Physica Polonica A, 2021, 140(4), pp. 306-310

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Conference Paper • *Open access*

Synthesis of zinc nanoparticles by laser induced plasma and its effects on levels of thyroid hormones

2

Citations

Aadim, K.A., Jassem, R.H., Adil, B.H., Farhan, M.M., Al-Chalabi, S.M.

AIP Conference Proceedings, 2020, 2307, 020020

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Article

Spectroscopic analysis of zinc plasma produced by alternating and direct current jet

Shaker, A.H., Aadim, K.A., Nida, M.H.

Journal of Optics (India), 2024, 53(2), pp. 1273-1281

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1
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Article

Analytical diagnostics of Zr, ZnO and Zr(-x): ZnO(x) plasma produced by laser

Mohammed, M.A., Hashim, H.N., Aadim, K.A.

Journal of Optics (India), 2024, 53(2), pp. 1235-1242

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Using Laser induced Plasma Technique to Synthesis Cobalt Oxide and CoO/ZnO Nanoparticles and Employ them as an Antibacterial Activity

Jassim, R.H., Aadim, K.A., Abdalameer, N.Kh.

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Fadhil, R.Z., Al aubaydi, M.A., Aadim, K.A.

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Influence of laser energy on spectroscopic analysis and structural and optical properties of (CdTe)_{1-x}Sn_x thin films

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Shaker, A.H., Aadim, K.A.

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Using the Plasma Jet Method to Create Zinc Nanoparticles and Study Their Structural and Optical Properties as an NH₃ Gas Sensor

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Mutar, S.A., Abbas, I.K., Aadim, K.A.

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Influence Of Laser Energy On Structural And Optical Properties Of ZnO_(x):NiO_(-x) Films PreparedBy PulseLaser Deposition

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Study zeolite plasma parameters ablated by a 1064 nm Q-switched laser Nd: YAG

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Fabrication of (ZnO)_x: (Cu)_{-x}/PSi Solar Cell Using Laser Induced Plasma Technique

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