



السيرة الذاتية

الاسم : د. عصام محمد ابراهيم اسماعيل الزهيري

تاريخ الميلاد : 1973-9-5

التخصص : الفيزياء الحالة الصلبة

الوظيفة : تدريسي في كلية العلوم

الدرجة العلمية : استاذ مساعد

عنوان العمل : جامعة بغداد-كلية العلوم-قسم الفيزياء

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مجال البحث: يعمل في مجال النانوتكنولوجيا والخلايا الشمسية, الكواشف,

والمتحسسات الكيميائية

عدد البحوث المنشرة في الاختصاص: 35 بحث

خامساً: (الاطاريح ، الرسائل) التي أشرف عليها:

ت	اسم الأطروحة أو الرسالة	القسم	السنة
1	Structural, optical and electrical properties of ZnO:GaO:CeO thin films	الفيزياء	2012
2	Synthesis and Characterization of Ag Nanoparticles by Laser Ablation	الفيزياء	2013
3	Synthesis and Characterization of CuO:NiO/PS Gas Sensor	الفيزياء	2015

2015	الفيزياء	The Role of CuO Concentration on ZnO/PSi Heterojunction	4
2016	الفيزياء	Rare Earth Additive Effect on Sensing Behavior of ZnO/PS Nanostructure	5

سادساً: المؤتمرات والندوات العلمية التي شارك فيها.

ت	العنوان	السنة	مكان انعقادها	نوع
1	الحلقة الدراسية الاولى والثانية والثانية	2008	جامعة بغداد-كلية العلوم-قسم الفيزياء	بحث
2	الحلقة الدراسية الثانية	2009	جامعة بغداد-كلية العلوم-قسم الفيزياء	بحث
3	مؤتمر كلية العلوم	2009	جامعة بغداد-كلية العلوم-قسم الفيزياء	بحث
4	المؤتمر العلمي الأول لتقانة النانو للمواد المتقدمة وتطبيقاتها	2009	الجامعة التكنولوجية	حضور
5	المؤتمر العلمي الوطني العراقي للفيزياء	2010	جامعة بغداد-كلية العلوم-قسم الفيزياء	بحث
6	المؤتمر العلمي الثاني لتقانة النانو وتطبيقاتها	2010	جامعة بغداد-كلية العلوم-قسم الفيزياء	حضور
7	المؤتمر العلمي الأول لقسم الفيزياء	2011	جامعة بغداد-كلية العلوم للبنات	بحث
8	المؤتمر العلمي الثالث	2012	جامعة بغداد-كلية العلوم-قسم الفيزياء جامعة بابل-كلية التربية-قسم الفيزياء	بحث

■ اكثر من 41 بحث ومؤتمر دولي ووطني

- "Antifungal activity of wide band gap Thioglycolic acid capped ZnS:Mn semiconductor nanoparticles against some pathogenic fungi", *Materials Science and Engineering C*, 73, 665–669, 2017.
- "ENHANCEMENT OF THE SENSITIVITY OF MEH-PPV AGAINST NO₂ TOXIC GAS" *Sci.Int.(Lahore)*,29(6),1197-1202,2017.
- "Synthesis and Characteristics of Ag, Cu/Au Core/Shell Nanoparticles Produced by Pulse Laser Ablation" *Iraqi Journal of Science*, 58(3C), 1651-1659. 2017.
- "Enhancement of vanadium oxide doped Eu+3 for gas sensor application", *Iraqi Journal of Physics*, 15(33), 17-27, 2017.
- "Structural and characteristics of Manganese doped Zinc Sulfide nanoparticles and its antibacterial effect against gram-positive and gram-negative Bacteria", *Open Journal of Biophysics*, 6, 1-9, 2016.
- " Structural and Characteristics of Manganese Doped Zinc Sulfide Nanoparticles and Its Antibacterial Effect against Gram-Positive and Gram-Negative Bacteria" *Open Journal of Biophysics*, 6, 1-9,2016.
- "The Effect of Electric and Magnetic Field on Silver Nanoparticles Prepared by Pulse Laser Ablation", *International Journal of Scientific & Engineering Research*, 7(6),976-980,2016.
- "SYNTHESIS AND ZETA POTENTIAL OF NOBLE METALS (Pt,Au,Ag AND Cu)NANOPARTICLES PREPARED BY PULSE LASER ABLATION", *Sci.Int.(Lahore)*,28(5),4371-4375,2016.
- "HIGH SENSITIVE H₂ GAS SENSOR OF ZnO/PS NANOSTRUCTURE PREPARED VIA PULSED LASER DEPOSITION TECHNIQUE", *Digest Journal of Nanomaterials and Biostructures*, 11(4), 1351-1360,2016.
- "Influence of Nd and Ce doping on the structural, optical and electrical properties of V₂O₅ thin films", *Iraqi Journal of Physics*, 14(30), 73-82, 2016.
- "Sensing Behavior of CuO: NiO/PS Nanoparticles" , *Australian Journal of Basic and Applied Sciences*", 9(23), 682-688, 2015.
- " Etching Effect on Sensing Behavior of CuO:NiO/PS Hydrogen Gas Sensor", *International Journal of Scientific & Engineering Research*, Volume 6, Issue 7, July-2015.
- "Etching Effect on Sensing Behavior of ZnO/PS Gas Sensor", *International Journal of Scientific & Engineering Research*, Volume 6, Issue 8, August-2015.
- "Sensing behavior of CuO-doped ZnO/PS nanoparticles " , *Materials Letters*157, 57–62, 2015.

- "The Study of the Nonlinear Optical Properties of Copper Nanoparticle Prepared By Pulse Laser Ablation PLA", *Int. Journal of Engineering Research and Applications*, 2014.
- "Synthesis, Structure And Characterization Of ZnS QdS And Using It In Photocatalytic Reaction", *INTERNATIONAL JOURNAL OF SCIENTIFIC & TECHNOLOGY RESEARCH*, 2014.
- "Fabrication of Nanostructure CdS Thin Film on Nanocrystalline Porous Silicon", *International Journal of Current Engineering and Technology*, 2014.
- "Characterization of Au/PS/p-Si heterojunction", *JOURNAL OF OPTO-ELECTRONICS AND ADVANCED MATERIALS*, 2014.
- "I-V and C-V characteristics of ZnSe_xAl_{1-x}/ n-and p-type Si solar cell", *Indian journal of applied research*, 4,2, 2014.
- "I-V Characteristic of CdO/PS Heterojunction", *International Journal of Application or Innovation in Engineering & Management*, 2014.
- "Influence of Doping and Annealing on structural, optical and electrical properties of amorphous ZnO thin films prepared by PLD", *IJ-Nano journal*, 2014.
- "MEH-PPV/Alq₃-based bulk heterojunction photodetector" *Chin. Phys. B*, 2013.
- "Au/ MEH: Alq₃/ITO Donor-Acceptor Blend as a Schottky Diode", *Indian Journal of applied research*, 2013.
- "ITO/PEDOT: PSS/MEH: PPV/Alq₃/LiF/Au as a schottky diode", *International Journal of Application or Innovation in Engineering & Management*, 2013.
- "C-V and I-V Characteristics of In₂O₃/GaAs Heterojunction", *J. of Electron device*, 2013.
- "Effect of thickness on the structural and optical parameters of PbSe thin films", *IJIR*, 2013.
- "XRD and AFM of recrystallization a-Ge and a-Ge:In with High Annealing Temperature", *International Journal of Application or Innovation in Engineering & Management*, 2013.
- "Investigation of the Electronic Properties of Al-CdTe-Au Schottky Diode", *International Journal of Applied Information Systems (IJAIS)*, 2013.
- "Hydrogen Gas Sensor based on a Single Crystal GaN/AlN/Si(111) Prepared via PAMBE", *Journal of American Science*, 2012.
- "Characterization and Gas sensitivity of Cadmium Oxide thin films prepared by thermal evaporation technique", *J. of Electron Device*, 2012.
- "I-V and C-V Characterization of Cd_xSe_{1-x}/Si heterojunction", *FONDAZIONE GIORGIO RONCHI, Febbraio, Italy* 2012.
- "Structural and Optical properties of BaTiO₃ thin films prepared by Pulsed laser deposition", *Iraqi Journal of Physics*, 2012.

- "Cole-Cole Diagrams of $\text{Ge}_x\text{S}_{1-x}$ thin films", *Journal of Education, Iraq*, 2012.
- "Electrical behavior and Optical Properties of Copper oxide thin Films", *Baghdad Journal*, 2011.
- "Density of states of CdTe thin films", *Al-Mustansiriyah Journal of Science, Iraq*, 2011.
- "Optical properties of Ternary $\text{Se}_{80-x}\text{Te}_{20}\text{Ge}_x$ thin films", *Iraqi journal of physics*, 2010.
- "DC AND AC CONDUCTIVITY MEASUREMENTS ON $\text{Se}_{60}\text{Te}_{30}\text{Ge}_{10}$ FILMS" *J. of Al-Nahrain, Iraq*. 2009.
- Complex Permittivity Response of $\text{Al/Se}_{30}\text{Te}_{30}\text{Sb}_{40}/\text{Al}$ Structure", *J. of science, Iraq*, 2009.
- "Electrical Investigations of P-Si/Si(n-type) structure", *Iraqi journal of physics*, 2009.
- "ZnSe/Porous Si/Si (p-type) Heterojunction Investigation" *J. of Karbala, Iraq*, 2009.
- "Density states of ternary $\text{Se}_{80-x}\text{Te}_{20}\text{Ge}_x$ thin films", *Iraqi journal of physics*, 2008.