



## Ali Khayatian

Assistant Professor

College: faculty of Physics

Department: Condensed Matter Physics

<http://www.slader.com/teachers-edition-solutions-manual/9781118230664-student-solutions-manual-fundamentals-physics-10th-edition/>

### Papers in Conferences

1. F. Zareafar, A. khayatian, R. Shakernejad ,Effect of zinc salt concentration on electrical propertyof ZnO nanorods ,2nd International Conference on Modern technologies in Science ,13 3 2019, آمل.
2. Z. Haji jamali , A. Khayatian , M. Almasi Kashib ,ZnO Nanorods Spin Coating on ZnO Nanorods Array in Different Growth Steps ,International Congress on Nanoscience & Nanotechnology (ICNN2018) ,2018 9 26.
3. Z. haji jamali , A. Khayatian , M. Almasi Kashi ,Improvement of Ultra-Violet Sensory of ZnO Nanorods Array Grown In Solution Including Zno Nrs ,International Congress on Nanoscience & Nanotechnology (ICNN2018) ,2018 9 26.
4. UV Photodetecting Performance Analysis of Zno Nanorod Arrays Grown on Rotating Substrate: Evaluation of the Initial Rest Time ,International Biennial Conference on UltraFine Grained and Nanostructured Materials (UFGNSM) ,2017 11 13.
5. Fabrication of field-effect transistor (FET) based on ZnO nanowire/graphene nanoribbon heterostructures ,5TH RIAPA Meeting On Low Dimensional Systems ,23 5 2017, تبریز.

### Papers in Journals

1. Etching of ZnO Nanorods by ZnO nanoparticles and adjustment of morphological and UV photodetection properties,Journal of Sol-Gel Science and Technology,2020 04 15.
2. S. M. A. Rastialhosseini, A. khayatian , R. Shariatzadeh, M. Almasi Kashi,Three-dimensional ZnO nanorods growth on ZnO nanorods seed layer for high responsivity UV photodetector,Applied Physics A,Vol. 125,pp. 829,2019 12 11.
3. Enhanced photocatalytic activity of Fe doped ZnO hierarchical nanosheets on the degradation of p-nitrophenol under visible light,Inorganic and Nano-Metal Chemistry,2018 9 8.
4. The role of different initial rest times on synthesized buffer layer and UV sensing of ZnO nanorods grown on rotational substrate,J MATER SCI-MATER EL,2017 3 8.
5. Improving ultraviolet photodetection of ZnO nanorods by Cr doped ZnO encapsulation process,Optics Communications,2017 12 12.
6. Improved sensitivity of UV sensors in hierarchically structured arrays of network-loaded ZnO

nanorods via optimization techniques.RSC ADV,۲۰۱۷ ۶ ۰۱,ISI ,SCOPUS.

7. Diameter-controlled synthesis of ZnO nanorods on Fe-doped ZnO seed layer and enhanced photodetection performance.MATER RES BULL,۲۰۱۷ ۵ ۰۱,ISI ,SCOPUS.
8. Effects of Chromium Dopant on Ultraviolet Photoresponsivity of ZnO Nanorods, J ELECTRON MATER,۲۰۱۷ ۷ ۰۱,ISI ,SCOPUS.
9. The effect of Fe-dopant concentration on ethanol gas sensing properties of Fe doped ZnO/ZnO shell/core nanorods,PHYSICA E,2016 5 01,ISI ,SCOPUS.
10. Large scale ZnO nanorod-based UV sensor induced by optimal seed layer,CERAM INT,2016 5 01,ISI ,SCOPUS.
11. Investigation of Structural, Optical, and Photocatalytic Properties of Hydrothermally Synthesized ZnO Nanorod Arrays with Various Aspect Ratios,Journal of Advanced Materials and Processing,2015 6 01,ISC.
12. Effect of annealing process in tuning of defects in ZnO nanorods and their application in UV photodetectors.OPTIK,۲۰۱۶ ۱ ۰۱,ISI ,SCOPUS.
13. Investigation of ethanol vapor sensing properties of ZnO flower-like nanostructures,MEASUREMENT,2015 6 01,ISI ,SCOPUS.
14. Enhancing photoresponsivity of ultra violet photodetectors based on Fe doped ZnO/ZnO shell/core nanorods.J ALLOY COMPD,۲۰۱۴ ۷ ۰۱,ISI ,SCOPUS.
15. Electrical and UV detecting investigation of the ZnO nanorods encapsulated with ZnO and Fe-doped ZnO,J Sol-Gel Sci Technol,2014 9 01,ISI.
16. Enhanced gas-sensing properties of ZnO nanorods encapsulated in an Fe-doped ZnO shell,J PHYS D APPL PHYS,2014 1 01,ISI ,SCOPUS.
17. The effect of different oxide layers on the sensing properties of anodic alumina nanoporous film,مجله پژوهش فیزیک ایران,۲۰۱۳ ۱۲ ۰۱,ISI ,SCOPUS.
18. Effect of annealing of ZnO/Ag double seed layer on the electrical properties of ZnO/Ag/ZnO heterostructure nanorods,Journal of Materials Science: Materials in Electronics,Vol. 35,pp. 1042,2024 05 31,JCR.
19. Optimization of Photosensitivity of Ultraviolet Sensors Based on ZnO Nanorods Etched with ZnO Nanopowders Using Taguchi Method,Applied Physics A,Vol. 129,pp. 353,2023 04 17,SCOPUS ,JCR.
20. Capacitive humidity sensors based on large diameter porous alumina prepared by high current anodization,SENSOR ACTUAT A-PHYS,2011 7 01,ISI ,SCOPUS.
21. M Almasi Kashi, A Ramazani and A Khayatian.The influence of the ac electrodeposition conditions on the magnetic properties and microstructure of Co nanowire arrays,J. Phys. D: Appl. Phys,مجلد ۳۹,شماره صفحات ۲۰۰۶,۲۰۰۶ ۹ ۱۵.
22. Effect of annealing of ZnO/Ag double seed layer on the electrical properties of ZnO/Ag/ZnO heterostructure nanorods,Journal of Materials Science: Materials in Electronics,2024 05 31.
23. Optimization of Photosensitivity of Ultraviolet Sensors Based on ZnO Nanorods Etched with ZnO Nanopowders Using Taguchi Method,Applied Physics A,Vol. 129,pp. 353,2023 04 17.