



## Hossein Dehghani

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### Papers in Conferences

1. Fatemeh Fattahiyan, مریم استاد ابراهیم, Improving the photovoltaic performance of CdS/CdSe quantum dot-sensitized solar cells using an Al-ZnS ternary passivation layer, 22nd Iranian Chemistry Congress, 13-15 05 2024, تهران.
2. Fahimesadat Vajedi, Hossein Dehghani, Synthesis of titanium dioxide-graphene nanocomposites (TiO<sub>2</sub>-G) by the hydrothermal method and their applications for removing heavy metal ions of cadmium(II), lead(II) and copper(II), 13th International Conference Advanced Carbon NanoStructures, Saint-Petersburg, 2017.
3. Mina Ahmadi Kashani, Hossein Dehghani, Facile preparation and study of optical and electrochemical properties of PbS nanostructures and PbS/ graphene nanocomposites, 13th International Conference Advanced Carbon NanoStructures, Saint-Petersburg, 2017.
4. Fahimesadat Vajedi, Hossein Dehghani, Hydrothermal synthesis, characterization and applications of titanium dioxide-graphene nanocomposites (TiO<sub>2</sub>-G) for removing heavy metal ions of cadmium(II), lead(II) and copper(II), The 5 International Biochemistry and Molecular Biology conference, Songkhla, 2016.
5. Raziye Akbarzadeh, Hossein Dehghani, STABILIZER-ASSISTED PREPARATION AND ELECTROCHEMICAL PROPERTIES OF NICKEL NANOPARTICLES, 19th Chemical physics congress, 2016.
6. Seyede Sara Khalili, Raziye Akbarzadeh, Hossein Dehghani, Synthesis of CdS nanostructure from cadmium (II)-Salophen precursor by thermal deposition: optical and electrochemical properties, 18th Iranian chemistry congress, 2015.
7. Raziye Akbarzadeh, Hossein Dehghani, One-step synthesis of magnetic nickel nanostructures modified by octadecylamine using a new solvothermal reduction process, 18th Iranian Chemistry congress, 2015.
8. Hossein Dehghani, Fatemeh Behnoudnia, Hydrothermal Synthesis of Nanorods and Nanosheets Antimony trioxide, Iran-Belarus International Conference on Modern Applications of Nanotechnology (IBCN12), 2012.
9. Hossein Dehghani, Sara Bakhshayesh, Synthesis and Characterization of Snowflake-like HgS Structure, 14th Iranian Inorganic Chemistry Conference, 2012.
10. Hossein Dehghani, Malihe Afrooz, Synthesis and Characterization of Molecular Complexes between Diimines with 2,3-Dichloro-5,6-dicyano-1,4-benzoquinone(DDQ), 14th Iranian Inorganic Chemistry Conference, 2012.
11. Hossein Dehghani, Nafise Salehi Vanani, Mojtaba Mojiri Foroushani, Preparation and characterization of silica- and titania-trans-porphyrin hybrid nanostructures and their application as

- lead and copper cations adsorbent ,14th Iranian Inorganic Chemistry Conference ,2012.
12. Hossein Dehghani, Elham Safaei, Zahra Kazemi ,Hydrothermal Synthesis and Characterization of Mercury(II) Sulphide ,International Congress on Nanoscience & Nanotechnology (ICNN2012) ,2012.
  13. Hossein Dehghani, Mojtaba Mojiri Foroushani, Nafise Salehi Vanani ,Self-assembly of 3-amino propyltrimethoxysilane to improve the efficiency of dye-sensitized solar cells ,International Congress on Nanoscience & Nanotechnology (ICNN2012) ,2012.
  14. Hossein Dehghani, Maryam Shaterian ,Preparation of Silica-Porphyrin Hybrid Nanostructures as Heavy Metal Ion Adsorbent ,International Congress on Nanoscience & Nanotechnology (ICNN2012) ,2012.
  15. Hossein Dehghani, Sara Bakhshayesh ,Synthesis and characterization of IronChromite( $\text{FeCr}_2\text{O}_4$ ) Nanoparticles Prepared by Hydrothermal Method ,Iran-Belarus International Conference on Modern Applications of Nanotechnology (IBCN12) ,2012.
  16. Hossein Dehghani, Sara Bakhshayesh ,Hydrothermal Synthesis and Characterization of Nanosized Cadmium sulfide ,Iran-Belarus International Conference on Modern Applications of Nanotechnology (IBCN12) ,2012.
  17. Hossein Dehghani, Mehnoosh Babaahmadi ,Synthesis and characterization of sitting-atop complexes between free base meso-tetraphenylporphyrins and  $\text{SnCl}_2 \cdot 2\text{H}_2\text{O}$  ,XIIth Netherlands Catalysis and Chemistry Conference ,2011.
  18. Hossein Dehghani, Malihe Afrooz ,Synthesis and characterization of molecular complexes between diimines with  $\text{SbCl}_3$  ,XIIth Netherlands Catalysis and Chemistry Conference ,2011.
  19. Hossein Dehghani, Sara Bakhshayesh ,Synthesis and characterization of new molecular complexation between  $\text{SiCl}_4$  and free base meso- tetraphenylporphyrins ,12th Iranian Inorganic Chemistry Conference ,2010.
  20. Hossein Dehghani, Mojtaba Mojiri Foroushani ,Calculation and prediction structure of novel complexation of porphine and  $\text{TiCl}_4$  ,12th Iranian Inorganic Chemistry Conference ,2010.
  21. Hossein Dehghani, Zohre Sabourifard ,Synthesis and spectroscopic characterization of sandwich sitting-atop complexes of meso-tetraarylporphyrins and  $\text{NbCl}_5$  ,12th Iranian Inorganic Chemistry Conference ,2010.
  22. Hossein Dehghani, Malihe Mahlouljifar ,Synthesis and spectroscopic characterization of sandwich sitting-atop complexes of meso-tetraarylporphyrins and  $\text{SeCl}_4$  ,12th Iranian Inorganic Chemistry Conference ,2010.
  23. Hossein Dehghani, Fatemeh Behnoudnia ,The thermodynamic studies of meso-tetraarylporphyrins with  $\text{ICl}$  ,12th Iranian Inorganic Chemistry Conference ,2010.

## Papers in Journals

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1. مینا احمدی کاشانی, حسین دهقانی قربی, A new multifunctional electrocatalyst based on PbS nanostructures decorated with graphene/polyaniline-modified glassy carbon electrode for selective detection of non-steroidal anti-inflammatory drug naproxen, *Microchemical Journal*, Vol. 200, pp. 110320, 2024 03 13, SCOPUS ,JCR.
  2. عاطفه امیددی درگاهی, حسین دهقانی قربی, علی احسانی, Electrochemical performance of  $\text{NiCo}_2\text{O}_4$ /functionalized graphene oxide with phenylalanine and tryptophane as efficient electrodes to enhance capacitance properties in supercapacitors, *Journal of Energy Storage*, 2023 11 25, ISI-Listed.
  3. مرضیه سیمنی, حسین دهقانی قربی, The study of electrochemical hydrogen storage behavior of the  $\text{UiO-66}$  framework on the metal/reduced graphene oxide substrate, *Fuel (journal)*, 2023 02 06, ISI-Listed.
  4. حسین دهقانی قربی,  $\text{ZnS}/\text{CdSe}_{0.2}\text{S}_{0.8}/\text{ZnSSe}$  heterostructure as a novel and efficient photosensitizer for highly efficient quantum dot sensitized solar cells, *APPL SURF SCI*, Vol. 545, pp. 148958, 2021 01 09, JCR.
  5. فهیمه سادات واجدی, حسین دهقانی قربی, علی ضرابی, Design and characterization of a novel pH-sensitive biocompatible and multifunctional nanocarrier for in vitro paclitaxel release, *MAT SCI ENG C-*

MATER, Vol. 119, pp. 111627, 2020 10 14, JCR.

6. حسین دهقانی قربی, مینا احمدی کاشانی, A biocompatible nanoplatform formed by MgAl-layered double hydroxide modified Mn<sub>3</sub>O<sub>4</sub>/N-graphene quantum dot conjugated-polyaniline for pH-triggered release of doxorubicin, MAT SCI ENG C-MATER, Vol. 114, pp. 1, 2020 05 06, JCR.
7. Roya Sheykhisarem, Hossein Dehghani, In vitro biocompatibility evaluations of pH-sensitive Bi<sub>2</sub>MoO<sub>6</sub>/NH<sub>2</sub>-GO conjugated polyethylene glycol for release of daunorubicin in cancer therapy, Colloids and Surfaces B: Biointerfaces, January 2023.
8. Negin Beiraghdar, Hossein Dehghani, Malihe Afrooz, Modification of polysulfide electrolyte by applying various amines, thiourea and urea as efficient additives to improve photovoltaic performance of quantum dot-sensitized solar cells, Solar Energy, 2021 04 15.
9. Maryam Ostadebrahim, & Hossein Dehghani, ZnS/CdSe<sub>0.2</sub>S<sub>0.8</sub>/ZnSSe heterostructure as a novel and efficient photosensitizer for highly efficient quantum dot sensitized solar cells, Applied Surface Science, 2021 04 15.
10. Mina Ahmadi Kashani, & Hossein Dehghani, A new electrochemical sensing platform based on HgS/graphene composite deposited on the glassy carbon electrode for selective and sensitive determination of propranolol, Journal of Pharmaceutical and Biomedical Analysis, 2020 12 01.
11. Fahimeh Sadat Vajedi, Hossein Dehghani, Ali Zarrabi, Design and characterization of a novel pH-sensitive biocompatible and multifunctional nanocarrier for in vitro paclitaxel release, Materials Science and Engineering: C, 2020 10 01.
12. Mina Ahmadi Kashani, & Hossein Dehghani, A novel selective ternary platform fabricated with MgAl-layered double hydroxide/NiMn<sub>2</sub>O<sub>4</sub> functionalized polyaniline nanocomposite deposited on a glassy carbon electrode for electrochemical sensing of levodopa, Colloids and Surfaces B: Biointerfaces, 2020 10 01.
13. Mina Ahmadi Kashani, Hossein Dehghani, Ali Zarrabi, A biocompatible nanoplatform formed by MgAl-layered double hydroxide modified Mn<sub>3</sub>O<sub>4</sub>/N-graphene quantum dot conjugated-polyaniline for pH-triggered release of doxorubicin, Materials Science and Engineering: C, 2020 09 01.
14. Maryam Ostadebrahim, & Hossein Dehghani, Improving the photovoltaic performance of CdSe<sub>0.2</sub>S<sub>0.8</sub> alloyed quantum dot sensitized solar cells using CdMnSe outer quantum dot, Solar Energy, 2020 03 15.
15. Fahimehsadat Vajedi, & Hossein Dehghani, A high-sensitive electrochemical DNA biosensor based on a novel ZnAl-layered double hydroxide modified cobalt ferrite-graphene oxide nanocomposite electrophoretically deposited onto FTO substrate for electroanalytical studies of etoposide, Talanta, Vol. 208, pp. 120444, 2020 02 01.
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22. R. Akbarzadeh, H. Dehghani, Sodium-dodecyl-sulphate-assisted synthesis of Ni nanoparticles: electrochemical properties, *Bulletin of Materials Science*, Vol. 40, pp. 1361, 2017.
23. S. S. Khalili, H. Dehghani, M. Afrooz, Composite films of metal doped CoS/carbon allotropes; efficient electrocatalyst counter electrodes for high performance quantum dot-sensitized solar cells, *Journal of Colloid and Interface Science*, Vol. 493, pp. 32, 2017.
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27. F. S. Vajedi, H. Dehghani, Synthesis of titanium dioxide nanostructures by solvothermal method and their application in preparation of nanocomposite based on graphene, *Journal of Materials Science*, Vol. 51, pp. 1845, 2016.
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