

- ❖ دیپلم تجربی (دیپستان استعدادهای درخشان فرزاتگان - معدل ۱۸/۵۹)
- ❖ کارشناسی شیمی ۸۹-۹۳ (معدل ۱۸/۰۹) - دانشگاه کاشان
- ✓ کسب رتبه اول در بین دانشجویان مقطع کارشناسی
- ❖ کارشناسی ارشد علوم فناوری نانو-نانوشیمی ۹۳-۹۵ (معدل ۱۹/۳۵) - دانشگاه کاشان
- ✓ کسب رتبه اول در بین دانشجویان مقطع کارشناسی ارشد
- ❖ دکتری علوم و فناوری نانو-نانو مواد معدنی ۹۵-۹۹ (معدل ۱۹/۴۴) - دانشگاه کاشان
- ✓ کسب رتبه اول در بین دانشجویان مقطع دکتری
- ❖ پسادکتری ۱۴۰۰-۱۴۰۱ - صندوق حمایت از پژوهشگران و فناوریان کشور
- ❖ پسادکتری ۱۴۰۱-۱۴۰۲ بنیاد ملی نخبگان (برگزیده طرح شهید دکتر چمران)

افتخارات و دستاوردها

- ❖ عضو بنیاد ملی نخبگان
- ❖ دریافت جایزه شهید دکتر چمران (تسهیلات دوره پسادکتری بنیاد ملی نخبگان)
- ❖ دریافت جایزه تحصیلی از بنیاد ملی نخبگان ۱۳۹۷-۱۳۹۹
- ❖ دانشجوی نمونه پژوهشی برگزیده در سال ۱۳۹۹
- ❖ دانشجوی نمونه در مرحله دانشگاهی برگزیده در سال ۱۳۹۷
- ❖ دانشجوی برتر استعدادهای درخشان و کسب رتبه ممتاز آموزشی در مقاطع کارشناسی، کارشناسی ارشد و دکتری
- ❖ داور ژورنال ها و کنفرانس های معتبر بین المللی
- ❖ حضور در فهرست دانشمندان ۲ درصد برتر دنیا بر اساس لیست جهانی منتشر شده توسط دانشگاه استنفورد)
- ۲۰۲۲ و ۲۰۲۳ و ۲۰۲۴)
- ❖ عضو هیئت علمی پژوهشکده علوم و فناوری نانو دانشگاه کاشان (۱۴۰۲ تا کنون)

Maryam Ghiyasiyan-Arani

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PROFILE

Date of birth: 6 August 1992

Hometown: Kashan, Iran

EDUCATION

2010-2014	KASHAN UNIVERSITY– GPA 18.09/20	Kashan, Iran
	- BSc in pure chemistry - Ranked 1st out of students of pure chemistry in BSc degree	
2014-2016	KASHAN UNIVERSITY – GPA 19.35/20	Kashan, Iran
	- MSc in nanoscience and nanotechnology - Nanochemistry - Ranked 1st out of students of Nanochemistry in MSc degree	
2016-2020	KASHAN UNIVERSITY- GPA 19.44/20	Kashan, Iran
	- Ph.D. in nanoscience and nanotechnology – Nanochemistry - Ranked 1st out of students of Nanochemistry in Ph.D. degree	
2021-2022	POST DOC – Iran National Science Foundation Science Deputy of Presidency	
2022-2023	POST DOC – Iran’s National Elites Foundation	

SKILLS

- Software Experience: windows application, Internet, Microsoft Office, Photoshop, Origin (graphing & analysis), Gauss View, Digimizer, Chem Draw
- Complex data interpretation (XRD, TEM, SEM, VSM, DRS, ELECTROCHEMISTRY)
- Adapt new concepts quickly while working under pressure
- Fluent in English
- Ability to work with analysis devices such as: AFM, VSM, SEM, XRD, FT-IR, Raman, Battery tester, UV-Vis spectrophotometry

RESEARCH INTERESTS

- Synthesis and characterization of nanomaterials by various morphology in optimal condition.
- Synthesis of nanomaterials by different chemical methods such as: Precipitation, Sonochemistry, Microwave, Hydrothermal, Combustion, Sol-gel, Solid-state, etc.
- Characterization of materials by various methods.
- Water treatment through photocatalytic activity of nanomaterials.
- Improvement of capacity of different type of nanomaterials for Electrochemical Hydrogen Storage.
- Synthesis and investigation of active materials (cathode and anode) for Li Ion Batteries (LIBs).
- Design the separators for LIBs.
- Study the electrochemical properties of batteries by means of impedance spectrometry (EIS), galvanostatic charge –discharge and cyclic voltammetry (CV) experiments.

ACCOMPLISHMENT AND HONOR

- Reviewer of ISI Journals (Ultrasonics sonochemistry, Journal of alloys and compounds, International journal of hydrogen energy, Journal of Energy Storage, Materials advances, Nanoscale advances, Physics letters B, Journal of nanostructures,)
- Reviewer of 7th International Congress on Nanoscience and Nanotechnology (ICNN2018), Research Institute of Petroleum Industry (RIPI), Tehran, Iran
- Member of Young Research and Elite Club
- Member of Iran's National Elites Foundation
- Member of IRAN NANOTECHNOLOGY initiative council (INIC)
- Admitted in MSC by talented student's allocations
- Admitted in Ph.D. by talented student's allocations
- Being in the list of Top 2% Scientists Worldwide by Stanford University (2022, 2023 and 2024).

PUBLICATION

1. **M Ghiyasiyan-Arani**, ZH Dehaghi, *Synergic effects in Bi₁₂MnO₂₀/Nickel aluminum oxide hydrate nanocomposites as advanced electrode materials for electrochemical hydrogen storage, Results in Engineering, 109046, 2026*
2. P Gomrokchi, **M Ghiyasiyan-Arani**, EA Dawi, AM Aljeboree, FH Alsultany, ..., *Schiff base-assisted hydrothermal synthesis and characterization of manganese vanadate with*

varying phase purity nanostructures as efficient electrode materials for ..., 2025, *Energy Nexus*, 100597

3. P Gomrokchi, **M Ghiyasiyan-Arani**, JGJ Almukhtar, LS Jasim, ..., *Effect of different operational parameters on sol-gel synthesis and electrochemical hydrogen storage of FeVO₄/Fe₂V₄O₁₃ nanocomposites*, *Results in Engineering*, 108179, 2025.
4. F Sedighi, **M Ghiyasiyan-Arani**, M Behpour, *Biomass-derived porous carbon-supported MnWO₄/CeVO₄ nanocomposites: Influence of solvent and natural surfactant on morphology and electrochemical hydrogen storage performance*, *Energy Nexus*, 100548, 2025.
5. F Samimi, **M Ghiyasiyan-Arani**, M Salavati-Niasari, FH Alsultany, ..., *A comparative study on effect of g-C₃N₄ and GO as additives on Cu₃Mo₂O₉-based nanocomposites as potential hydrogen storage material*, *International Journal of Hydrogen Energy* 157, 150481, 2025.
6. **M Ghiyasiyan-Arani**, *Effect of different alcoholic solvents on the structural and electrochemical characteristics of NH₄V₄O₁₀/carbon sphere composites for hydrogen storage application*, *Applied Water Science* 15 (7), 150, 2025.
7. F Karkeh-Abadi, **M Ghiyasiyan-Arani**, SM Hameed, FH Alsultany, ..., *Electrochemical hydrogen storage capabilities of Li₂Co₂ (MoO₄)₂ nanostructures: Schiff base-assisted synthesis and characterization*, *International Journal of Hydrogen Energy* 128, 377-385, 2025.
8. Karkeh-Abadi, F., **Ghiyasiyan-Arani, M.**, Jamel, H. O., Mahdi, M. A., Ganduh, S. H., Jasim, L. S., & Salavati-Niasari, M. (2025). Synthesized and characterization of Ce₂ (MoO₄)₂ (Mo₂O₇)/MoO₃ nanocomposites with Schiff-base ligand assistance as possible electrode materials for electrochemical energy storage. *Journal of Industrial and Engineering Chemistry*, 144, 735-745.
9. Gomrokchi, P., **Ghiyasiyan-Arani, M.**, Shabani-Nooshabadi, M., & Salavati-Niasari, M. (2025). Optimizing synthesis parameters to compare Ag₂V₄O₁₁/AgVO₃ nanosheets for electrochemical energy storage. *Alexandria Engineering Journal*, 118, 638-648.
10. **Ghiyasiyan-Arani, M.**, & Sobhani, A. (2025). Multidisciplinary synthesis of Ca–Mn–O nanostructures and optimization for electrochemical hydrogen storage. *International Journal of Hydrogen Energy*, 111, 798-807.

11. Sedighi, F., **Ghiyasiyan-Arani, M.**, & Behpour, M. (2025). Al₂ (WO₄)₃/SrWO₄ electrode modified by date kernel-derived carbon for electrochemical hydrogen storage. *Journal of Energy Storage*, 106, 114883.
12. ZH Dehaghi, **M Ghiyasiyan-Arani**, M Shabani-Nooshabadi, FH Alsultany, ..., A high-performance magnetically separable and reusable BiFeO₃/Bi₂₅ FeO₄₀ nano-photocatalyst for purifying water under visible light irradiation, *RSC advances* 15 (44), 36924-36937, 2025.
13. P Gomrokchi, **M Ghiyasiyan-Arani**, EA Dawi, FH Alsultany, SK Issa, ..., Effect of solvent composition on a one-dimensional (NH₄)₂ V₁₀ O₂₅· 8H₂ O electroactive material for electrochemical hydrogen storage application, *RSC advances* 15 (27), 22128-22137, 2025.
14. Anjiraki, M. K., **Ghiyasiyan-Arani, M.**, Baladi, M., Alsultany, F. H., Shabani-Nooshabadi, M., & Salavati-Niasari, M. (2024). Magnetically recyclable PrFeO₃/g-C₃N₄ nano-photocatalyst with Z-scheme structure: Synthesis and characterization and its application for enhanced degradation of malachite green as contaminated water under sunlight. *Inorganic Chemistry Communications*, 170, 113184.
15. Samimi, F., & **Ghiyasiyan-Arani, M.** (2024). Zn₂Mo₃O₈/ZnMo₈O₁₀/Mo₈O₂₃ nanocomposites; structural properties, synthesis and its emerging application in electrochemical hydrogen storage. *International Journal of Hydrogen Energy*, 91, 423-433.
16. S Alinavaz, M Salavati-Niasari, M Ghiyasiyan-Arani, Sonochemical synthesized Gd₄Al₂O₉ nanostructures modified with carbonous compounds for electrochemical hydrogen storage application, *International Journal of Hydrogen Energy* 80, 486-494, 2024.
17. Anjiraki, M. K., **Ghiyasiyan-Arani, M.**, Khudair, Z. F., Baladi, M., Shabani-Nooshabadi, M., & Salavati-Niasari, M. (2024). A highly efficient PrMnO₃/graphene oxide nanocomposite for visible light induced photocatalytic water treatment. *Solar Energy*, 275, 112615.
18. P Gomrokchi, M Shabani-Nooshabadi, **M Ghiyasiyan-Arani**, ..., Tube-on-rod structure of MWCNTs-ammonium cobalt vanadium oxide/ammonium vanadium oxide; evaluation of electrochemical hydrogen storage capacity, *Journal of Energy Storage* 85, 111041, 2024.

- 19.F Samimi, **M Ghiyasiyan-Arani**, MA Mahdi, LS Jasim, AF Zonouz, ..., *Preparation, microstructural characteristics, and electrochemical properties of cobalt molybdate nanocomposites as electrode material for hydrogen storage*, *Journal of Energy Storage* 85, 111027, 2024.
- 20.**Ghiyasiyan-Arani, M.**, Ansarinejad, H., Shabani-Nooshabadi, M., Dawi, E. A., & Salavati-Niasari, M. (2024). *Design 3D hierarchical flower-shaped NH₄V₄O₁₀/N-GQDs/cellulose nanocomposites as electrode materials for supercapacitor application*. *Journal of Alloys and Compounds*, 976, 173205.
- 21.F Samimi, **M Ghiyasiyan-Arani**, EA Dawi, M Salavati-Niasari, *Carbonous nanocomposites of Mn₂Mo₃O₈/MnO as active materials for studying lithium and hydrogen storage application*, *Journal of Energy Storage* 75, 109670, 2024.
- 22.F Karkeh-Abadi, **M Ghiyasiyan-Arani**, EA Dawi, M Salavati-Niasari, *Microstructural study of sonochemical synthesized belt-like Zr (MoO₄)₂/MoO₃ composites for efficient energy storage*, *Journal of Energy Storage*, 107896, 2023.
- 23.S Alinavaz, **M Ghiyasiyan-Arani**, EA Dawi, M Salavati-Niasari, *Sonochemical synthesis, characterization and investigation of the electrochemical hydrogen storage properties of Ho₃Fe₅O₁₂/Mg₂Al(OH)₇ nanocomposites*, *Journal of Energy Storage* 66, 107369, 2023.
- 24.S Alinavaz, **M Ghiyasiyan-Arani**, EA Dawi, M Salavati-Niasari, *Gd₃Fe₅O₁₂/MgAl-LDH nanocomposites: Sonochemical synthesis, optimization and electrochemical hydrogen storage studies*, *International Journal of Hydrogen Energy*, 2023.
- 25.Samira Alinavaz, **Maryam Ghiyasiyan-Arani**, Masoud Salavati-Niasari; *Enhanced hydrogen storage capacity of NiAl-layered double hydroxide modified with Tb₃Fe₅O₁₂ nanostructures*, *International Journal of Hydrogen Energy* 48 (38), 14378-14390, 2023.
- 26.F Samimi, **M Ghiyasiyan-Arani**, M Salavati-Niasari, *A Study of Relative Electrochemical Hydrogen Storage Capacity of Active Materials Based on Zn₃Mo₂O₉/ZnO and Zn₃Mo₂O₉/ZnMoO₄*, *International Journal of Hydrogen Energy* .
- 27.F Karkeh-Abadi, **M Ghiyasiyan-Arani**, M Salavati-Niasari, *Effect of Mg-Zn-Mo-O nanoparticles supported on carbon quantum dot and graphitic carbon nitride for improving electrochemical hydrogen storage*, *Journal of Alloys and Compounds* 921, 166120, 2022.

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- 32.F Samimi, **M Ghiyasiyan-Arani**, M Salavati-Niasari, *New Avenue for preparation of potential hydrogen storage materials based on K10 montmorillonite and Ca₂Mn₃O₈/CaMn₃O₆ nanocomposites*, **Fuel** 320, 123933, 2022.
- 33.**M Ghiyasiyan-Arani**, M Salavati-Niasari, *Decoration of green synthesized S, N-GQDs and CoFe₂O₄ on halloysite nanoclay as natural substrate for electrochemical hydrogen storage application*, **Scientific Reports** 12 (1), 1-11, 2022.
- 34.**M. Ghiyasiyan-Arani**, M. Salavati-Niasari, *Comparative Study on Electrochemical hydrogen storage of nanocomposites based on S or N doped Graphene Quantum Dots and Nanostructured Titanium Niobate*, **Journal of Alloys and Compounds**, 163379, 2021.
- 35.QA Yousif, M Ranjeh, **M Ghiyasiyan-Arani**, A Al-Nayili, R Monsef, ..., *Morphology engineering of LiFeO₂ nanostructures through synthesis controlling for electrochemical hydrogen storage inquiries*, **Fuel** 313, 123025, 2022.
- 36.M. Masjedi-Arani, **M. Ghiyasiyan-Arani**, M. Salavati-Niasari, *Synthesis and characterization of carbon sphere-supported sand-rose like N-GQDs/NiCo₂S₄ structures with synergetic effect for development of hydrogen storage capacity*, **Fuel** 312, 122956, 2022.

- 37.F. Sedighi, **M. Ghiyasiyan-Arani**, M. Behpour, *Ternary nanocomposites of $Ce_2W_2O_9/CoWO_4$ /porous carbon; design, structural study and electrochemical hydrogen storage application*, ***Fuel***, 310, 122218, **2022**.
- 38.R. Monsef, F. Soofivand, HA. Alshamsi, A. Al-Nayili, **M. Ghiyasiyan-Arani**, M. Salavati-Niasari, *Sonochemical synthesis and characterization of $PrVO_4/CdO$ nanocomposite and their application as photocatalysts for removal of organic dyes in water*, ***Journal of Molecular Liquids***, 336, 116339, **2021**.
- 39.M. Baladi, M. Valian, **M. Ghiyasiyan-Arani**, M. Salavati-Niasari, *Role of morphology in electrochemical hydrogen storage using binary $DyFeO_3-ZnO$ nanocomposites as electrode materials*, ***International Journal of Hydrogen Energy***, 46, 21026-21039, **2021**.
- 40.M. Karami, M. Ghanbari, HA. Alshamsi, **M. Ghiyasiyan-Arani**, M. Salavati-Niasari, *The effect of $CuI-PbI_2$ nanocomposite fabricated by the sonochemical route on electrochemical hydrogen storage characteristics*, ***International Journal of Hydrogen Energy***, 46, 19074-19084, **2021**.
- 41.AF. Zonouz, M. Ashrafi, **M. Ghiyasiyan-Arani**, M. Hamadanian, *Effect of sol-gel synthesized $Al_{0.1}Zr_{0.9}O_{1.95}$ nanoparticles and PVP on PVDF-based separators in lithium-ion battery performance: The RSM study*, ***Journal of Elastomers & Plastics***, 53 (3), 241-257, **2020**.
- 42.M. Karami, M. Ghanbari, O. Amiri, **M. Ghiyasiyan-Arani**, M. Salavati-Niasari *Sonochemical synthesis, characterization and investigation of the electrochemical hydrogen storage properties of $TlPbI_3/Tl_4PbI_6$ nanocomposite*, ***International Journal of Hydrogen Energy*** 46 (9), 6648-6658, **2021**.
- 43.R. Monsef, **M. Ghiyasiyan-Arani**, M. Salavati-Niasari, *Design of Magnetically Recyclable Ternary $Fe_2O_3/EuVO_4/g-C_3N_4$ Nanocomposites for Photocatalytic and Electrochemical Hydrogen Storage*, ***ACS Applied Energy Materials*** 4 (1), 680-695, **2021**.
- 44.Naserieh, T. Gholami, **M. Ghiyasiyan-Arani**, M. Salavati-Niasari, *Insight into effects of graphene and zinc oxide in $Li_4Ti_5O_{12}$ as anode materials for Li-ion full-cell battery*, ***International Journal of Hydrogen Energy***, 45 (51), 27705-27712, **2020**.
- 45.FS. Razavi, A. Sobhani, O. Amiri, **M. Ghiyasiyan-Arani**, M. Salavati-Niasari, *Green sol-gel auto-combustion synthesis, characterization and investigation of the electrochemical hydrogen storage properties of barium cobalt oxide nanocomposites with maltose*, ***International Journal of Hydrogen Energy***, 45 (35), 17662-17670, **2020**.
- 46.M Ranjeh, **M Ghiyasiyan-Arani**, M Slavati-Niasari, H Moayedi, *$Li_4Zn_3B_4O_{11}/Li_2B_2O_4$ nanocomposites as a potential electrode material for*

- electrochemical hydrogen storage; insight of fabrication and morphology controlling, Journal of Materials Research and Technology 9 (2), 2028-2036, 2020.*
47. M. Masjedi-Arani, **M. Ghiyasiyan-Arani**, O. Amiri, M. Salavati-Niasari, *CdSnO₃-graphene nanocomposites: Ultrasonic synthesis using glucose as capping agent and characterization for electrochemical hydrogen storage, Ultrasonics Sonochemistry*, 61, 104840, 2020.
 48. R. Monsef, **M. Ghiyasiyan-Arani**, O. Amiri, M. Salavati-Niasari, *Sonochemical synthesis, characterization and application of PrVO₄ nanostructures as an effective photocatalyst for discoloration of organic dye contaminants in wastewater, Ultrasonics sonochemistry*, 61, 104822, 2020.
 49. **M. Ghiyasiyan-Arani**, M. Salavati-Niasari, *Strategic design and electrochemical behaviors of Li-ion battery cathode nanocomposite materials based on AlV₃O₉ with carbon nanostructures, Composites Part B: Engineering*, 183, 107734, 2020.
 50. **M. Ghiyasiyan-Arani**, M. Salavati-Niasari *Effect of Operational Synthesis Parameters on the Morphology and the Electrochemical Properties of 3D Hierarchical AlV₃O₉ Architectures for Li-Ion Batteries, Journal of The Electrochemical Society*, 167 (2) 020544, 2020.
 51. **M. Ghiyasiyan-Arani**, M. Salavati-Niasari, *New Nanocomposites Based on Li-Fe-Mn Double Spinel and Carbon Self-Doped Graphitic Carbon Nitrides with Synergistic Effect for Electrochemical Hydrogen Storage Application, (ACS) Industrial & Engineering Chemistry Research*, 58 (51), 23057-23067, 2019.
 52. **M. Ghiyasiyan-Arani**, M. Salavati-Niasari *Synergic and Coupling Effect between SnO₂ Nanoparticles and Hierarchical AlV₃O₉ Microspheres Toward Emerging Electrode Materials for Lithium-Ion Battery Devices, Inorganic Chemistry Frontiers*, 8, 2735-2748, 2021.
 53. M.H. Khorasanizadeh, **M. Ghiyasiyan-Arani**, R. Monsef, M. Salavati-Niasari *Ultrasound-accelerated synthesis of uniform DyVO₄ nanoparticles as high activity visible-light-driven photocatalyst, Ultrasonics sonochemistry* 59, 104719, 2019.
 54. S. Gholamrezaei, **M. Ghiyasiyan-Arani**, M. Salavati-Niasari, H. Moayedi, *Multidisciplinary methods (co-precipitation, ultrasonic, microwave, reflux and hydrothermal) for synthesis and characterization of CaMn₃O₆ nanostructures and its photocatalytic water splitting performance, International Journal of Hydrogen Energy*, 44, 26373-26386, 2019.
 55. F.S. Razavi, M.S. Morassaei, A. Salehabadi, **M. Ghiyasiyan-Arani**, M. Salavati-Niasari, *Structural characterization and electrochemical hydrogen sorption performances of the*

polycrystalline $Ba_2Co_9O_{14}$ nanostructures, *Journal of Alloys and Compounds*, 777, 252-258, 2019

- 56.R. Monsef, **M. Ghiyasiyan-Arani**, M. Salavati-Niasari, *Utilizing of neodymium vanadate nanoparticles as an efficient catalyst to boost the photocatalytic water purification*, *Journal of Environmental Management*, 230, 266-281, **2019**
57. F. Mazloom, **M. Ghiyasiyan-Arani**, R. Monsef, M. Salavati-Niasari, *Photocatalytic Degradation of Diverse Organic Dyes by Sol-gel Synthesized $Cd_2V_2O_7$ Nanostructures*, *Journal of Materials Science: Materials in Electronics*, 29 (21), 18120-18127, **2018**.
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- 60.R. Monsef, **M. Ghiyasiyan-Arani**, M. Salavati-Niasari, *Application of ultrasound-aided method for the synthesis of $NdVO_4$ nano-photocatalyst and investigation of eliminate dye in contaminant water*, *Ultrasonics Sonochemistry* 42, 201-211, **2018**
- 61.**M. Ghiyasiyan-Arani**, M. Salavati-Niasari, M. Masjedi-Arani, F. Mazloom, *An easy sonochemical route for synthesis, characterization and photocatalytic performance of nanosized $FeVO_4$ in the presence of aminoacids as green capping agents*, *Journal of Materials Science: Materials in Electronics* 29 (1), 474-485, **2018**
- 62.**M. Ghiyasiyan-Arani**, M. Salavati-Niasari, S. Naseh, *Enhanced photodegradation of dye in waste water using iron vanadate nanocomposite; ultrasound-assisted preparation and characterization*, *Ultrasonics Sonochemistry* 39, 494–503, **2017**
- 63.**M. Ghiyasiyan-Arani**, M. Masjedi-Arani, M. Salavati-Niasari, *Size controllable synthesis of cobalt vanadate nanostructures with enhanced photocatalytic activity for the degradation of organic dyes*, *Journal of Molecular Catalysis A: Chemical* 425, 31-42, **2016**
- 64.**M. Ghiyasiyan-Arani**, M. Masjedi-Arani, D. Ghanbari, S. Bagheri, *Novel chemical synthesis and characterization of copper pyrovanadate nanoparticles and its influence on the flame retardancy of polymeric nanocomposites*, *Scientific reports* 6, 25231, **2016**.
- 65.**M. Ghiyasiyan-Arani**, M. Masjedi-Arani, M. Salavati-Niasari, *Facile synthesis, characterization and optical properties of copper vanadate nanostructures for enhanced*

photocatalytic activity, *Journal of Materials Science: Materials in Electronics* 27 (5), 4871-4878, 2016

66. **M. Ghiyasiyan-Arani**, M. Masjedi-Arani, M. Salavati-Niasari, *Novel Schiff base ligand-assisted in-situ synthesis of $Cu_3V_2O_8$ nanoparticles via a simple precipitation approach*, *Journal of Molecular Liquids* 216, 59-66, 2016
67. F. Mazloom, M. Masjedi-Arani, **M. Ghiyasiyan-Arani**, M. Salavati-Niasari, *Novel sodium dodecyl sulfate-assisted synthesis of $Zn_3V_2O_8$ nanostructures via a simple route*, *Journal of Molecular Liquids* 214, 46-53, 2016
68. **M. Ghiyasiyan-Arani**, M. Masjedi-Arani, M. Salavati-Niasari, *Simple precipitation synthesis of pure $Cu_3V_2O_8$ nanoparticles and investigation of their optical properties*, *Journal of Nanostructures* 5 (4), 437-441, 2015.

CHAPTER BOOK

- **Ghiyasiyan-Arani, M.** (2024). Mixed metal oxide-based nanomaterials for hydrogen storage. In *Renewable and Clean Energy Systems Based on Advanced Nanomaterials* (pp. 69-97). Elsevier.
- **Ghiyasiyan-Arani, M.** (2024). Active nanomaterials for Li-ion batteries and advanced nanomaterials for supercapacitors. In *Renewable and Clean Energy Systems Based on Advanced Nanomaterials* (pp. 125-153). Elsevier.

CONFERENCES

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