



Masood Salavati Niasar

Professor

College: Faculty of Chemistry

Department: Inorganic Chemistry

Education

Degree	Graduated in	Major	University
BSc	1992	Applied Chemistry	University of Isfahan
MSc	1995	Inorganic Chemistry	Isfahan University of Technology
Ph.D	2000	Inorganic Chemistry	University of Tehran

Employment Information

Faculty/Department	Position/Rank	Employment Type	Cooperation Type	Grade
University Of Kashan	Assistant Professor	Tenured	Full Time	

Papers in Journals

1. [Sonic chemical synthesis and characterization of CuInS₂ nanostructures using new sulfur precursor and their application as photocatalyst for degradation of organic pollutants under simulated sunlight, Arabian Journal of Chemistry, 2022 05 27, SCOPUS, JCR.](#)
2. [Wenya Lei, Xingxing Jiao, Shugui Yang, Farshad Boorboor Ajdari, Masoud Salavati, & Niasari, Yangyang Feng, Jianqing Yin, Goran Ungar, Jiangxuan Song, Temperature and stress-resistant solid state electrolyte for stable lithium-metal batteries, Energy Storage Materials, 2022 04 10, SCOPUS, JCR.](#)
3. [Effect of g-C₃N₄ amount on green synthesized GdFeO₃/g-C₃N₄ nanocomposites as promising compounds for solid-state hydrogen storage, International Journal of Hydrogen Energy, 2022 03 16, SCOPUS, JCR.](#)
4. [Sonic chemistry fabrication of Er₂Sn₂O₇ nanoparticles with advanced photocatalytic performance of their carbonic nanocomposites, International Journal of Hydrogen Energy, 2022 02 23, SCOPUS, JCR.](#)
5. [Catechin mediated green synthesis of Au nanoparticles: Experimental and theoretical approaches to the determination HOMO-LUMO energy gap and reactivity indexes for the \(+\)-epicatechin \(2S, 3S\), Arabian Journal of Chemistry, 2022 02 16, SCOPUS, JCR.](#)

6. A simple hydrothermal route for the preparation of novel Na–Y–W nano-oxides and their application in dye degradation, RSC Advances, 2022 02 08, SCOPUS, JCR.
7. Improved pechini sol-gel fabrication of Li₂B₄O₇/ NiO/Ni₃(BO₃)₂ nanocomposites to advanced photocatalytic performance, Arabian Journal of Chemistry, 2022 02 07, SCOPUS, JCR.
8. Agaricus bisporus extract as an excellent biotemplate agent for the synthesis of nano-plate Dy₂Ti₂O₇/g-C₃N₄ and its application in electrochemical hydrogen storage, Fuel, 2022 02 04, SCOPUS, JCR.
9. Nanocomposite scaffolds based on gelatin and alginate reinforced by Zn₂SiO₄ with enhanced mechanical and chemical properties for tissue engineering, Arabian Journal of Chemistry, 2022 01 28, SCOPUS, JCR.
10. et al., Ca₁₉Zn₂(PO₄)₁₄ Nanoparticles: Synthesis, characterization and its effect on the colonization of Streptococcus mutans on tooth surface, Journal of Molecular Liquids, 2022 01 22, SCOPUS, JCR.
11. رزیتا منصف & مسعود صلواتی نیاسری, Electrochemical sensor based on a chitosan-molybdenum vanadate nanocomposite for detection of hydroxychloroquine in biological samples, Journal of Colloid and Interface Science, 2022 01 10, SCOPUS, JCR.
12. مسعود صلواتی نیاسری, مژگان قنبری, Qahtan A. Yousif, فاطمه یوسف زاده, Fabrication of TiSn₁₃/C₃N₄ nanocomposites for enhanced photodegradation of toxic contaminants below visible light and investigation of kinetic and mechanism of photocatalytic reaction, Journal of Molecular Liquids, 2022 01 07, SCOPUS, JCR.
13. Sonochemical synthesis and characterization of aluminum tungsten oxide nanoparticle and study its impact on the growth of microalga, Arabian Journal of Chemistry, 2021 12 29, SCOPUS, JCR.
14. Qahtan A. Yousif et al., Morphology engineering of LiFeO₂ nanostructures through synthesis controlling for electrochemical hydrogen storage inquiries, Fuel, 2021 12 25, SCOPUS, JCR.
15. مسعود صلواتی نیاسری, Qahtan A. Yousif, کامران مهدوی, سحر زینتلو عجب شیر, Enhanced photocatalytic degradation of toxic contaminants using Dy₂O₃-SiO₂ ceramic nanostructured materials fabricated by a new, simple and rapid sonochemical approach, Ultrasonics Sonochemistry, 2021 12 24, SCOPUS, JCR.
16. Green fabrication of graphene quantum dots from cotton with CaSiO₃ nanostructure and enhanced photocatalytic performance for water treatment, International Journal of Hydrogen Energy, 2021 12 24, SCOPUS, JCR.
17. مسعود صلواتی نیاسری & مریم غیاثیان آرانی, 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, 2021 12 22, SCOPUS, JCR.
18. مریم مسجدی آرانی, مریم غیاثیان آرانی, مسعود صلواتی نیاسری, Synthesis and characterization of carbon sphere-supported sand-rose like N-GQDs/NiCo₂S₄ structures with synergetic effect for development of hydrogen storage capacity, Fuel, 2021 12 21, SCOPUS, JCR.
19. سید میلاد طباطبایی نژاد, سحر زینتلو عجب شیر, امید امیری, مسعود صلواتی نیاسری, Magnetic Lu₂Cu₂O₅-based ceramic nanostructured materials fabricated by a simple and green approach for an effective photocatalytic degradation of organic contamination, RSC Advances, 2021 12 16, SCOPUS, JCR.
20. زینب طالب زاده, مریم مسجدی آرانی, امید امیری, مسعود صلواتی نیاسری, Green sonochemistry fabrication of pure Gd₂Sn₂O₇ nanoparticles with advanced photocatalytic efficiency for elimination of dye pollutions, International Journal of Hydrogen Energy, 2021 12 07, SCOPUS, JCR.
21. مولود ولیان, مسعود صلواتی نیاسری, Qahtan A. Yousif, مهین بلدی, Auto-combustion synthesis of Sr₂Fe₂O₅/Dy₃Fe₅O₁₂ nanocomposite using Hordeum vulgare L extract: Preparation, structural analysis and evaluation of its photocatalytic and electrochemical behaviors, Journal of Alloys and Compounds, 2021 12 02, SCOPUS, JCR.
22. Omid Amiri, Arazw Abdalrahman, Govand Jangi, Haval Aziz Ahmed, Safin Hassan Hussein, Mohammad Joshaghani, Riyadh Zainadin Mawlood, Masoud Salavati, & Niasari, Convert mechanical energy to chemical energy to effectively remove organic pollutants by using PTO catalyst, Separation

- and Purification Technology,2021 12 01,SCOPUS ,JCR.
23. Green self-assembly of $\text{CuCe}_2(\text{MoO}_4)_4/\text{montmorillonite-K10}$ nanocomposites; a promising solid-state hydrogen storage profile,Fuel,2021 10 31,SCOPUS ,JCR.
 24. Toxicity of Nd_2WO_6 nanoparticles to the microalga *Dunaliella salina*: synthesis of nanoparticles and investigation of their impact on microalgae,RSC Advances,2021 08 10,SCOPUS ,JCR.
 25. زینب طالب زاده , مریم مسجدی آرانی , امید امیری , مسعود صلواتی نیاسری , $\text{La}_2\text{Sn}_2\text{O}_7/\text{g-C}_3\text{N}_4$ nanocomposites: Rapid and green sonochemical fabrication and photo-degradation performance for removal of dye contaminations,Ultrasonics Sonochemistry,2021 07 24,SCOPUS ,JCR.
 26. High-performance cement mortars-based composites with colloidal nano-silica: Synthesis, characterization and mechanical properties,Arabian Journal of Chemistry,2021 07 21,SCOPUS ,JCR.
 27. پوریا مهدی زاده , مریم مسجدی آرانی , امید امیری , مسعود صلواتی نیاسری ,Rapid microwave fabrication of new nanocomposites based on Tb-Fe-O nanostructures for electrochemical hydrogen storage application,Fuel,2021 07 14,SCOPUS ,JCR.
 28. مهدی رنجه , امید امیری , مسعود صلواتی نیاسری , مهدی شبانی نوش آبادی ,Preparation and study of characteristics of $\text{LiCoO}_2/\text{Fe}_3\text{O}_4/\text{Li}_2\text{B}_2\text{O}_4$ nanocomposites as ideal active materials for electrochemical hydrogen storage,RSC Advances,2021 07 05,SCOPUS ,JCR.
 29. فرشاد بشکار , مسعود صلواتی نیاسری , امید امیری ,Facile One-Pot In Situ Synthesis and Characterization of a $\text{Cu}_2\text{O}/\text{Cu}_2(\text{PO}_4)(\text{OH})$ Binary Heterojunction Nanocomposite for the Efficient Photocatalytic Degradation of Ciprofloxacin from Aqueous Solution under Direct Sunlight Irradiation,Industrial & Engineering Chemistry Research,2021 06 28,SCOPUS ,JCR.
 30. مزگان قنبری , مسعود صلواتی نیاسری , فاطمه مهندس ,Thermosensitive alginate–gelatin–nitrogen-doped carbon dots scaffolds as potential injectable hydrogels for cartilage tissue engineering applications,RSC Advances,2021 05 21,SCOPUS ,JCR.
 31. مهین بلدی , مولود ولیان , مریم غیاثیان آرانی , مسعود صلواتی نیاسری ,Role of morphology in electrochemical hydrogen storage using binary $\text{DyFeO}_3\text{-ZnO}$ nanocomposites as electrode materials,International Journal of Hydrogen Energy,2021 05 19.
 32. مزگان قنبری , مسعود صلواتی نیاسری , فاطمه مهندس ,Injectable hydrogels based on oxidized alginate-gelatin reinforced by carbon nitride quantum dots for tissue engineering,International Journal of Pharmaceutics,2021 04 30,SCOPUS ,JCR.
 33. سحر زینتلو عجب شیر , سید علی حیدری اصیل , مسعود صلواتی نیاسری ,Simple and eco-friendly synthesis of recoverable zinc cobalt oxide-based ceramic nanostructure as high-performance photocatalyst for enhanced photocatalytic removal of organic contamination under solar light,Separation and Purification Technology,2021 03 24,SCOPUS ,JCR.
 34. پوریا مهدی زاده , مریم مسجدی آرانی , مسعود صلواتی نیاسری ,Green solid-state fabrication of new nanocomposites based on La-Fe-O nanostructures for electrochemical hydrogen storage application,International Journal of Hydrogen Energy,2021 03 17,SCOPUS ,JCR.
 35. محمد حسن پور , سید علی حسینی تفرشی , مسعود صلواتی نیاسری , مسعود همدانیان ,Toxicity evaluation and preparation of CoWO_4 nanoparticles towards microalga *Dunaliella salina*,Environmental Science and Pollution Research,2021 03 10,SCOPUS ,JCR.
 36. سیده راحله یوسفی et al., $\text{Dy}_2\text{BaCuO}_5/\text{Ba}_4\text{DyCu}_3\text{O}_9$ S-scheme heterojunction nanocomposite with enhanced photocatalytic and antibacterial activities,Journal of the American Ceramic Society,2021 01 26,SCOPUS ,JCR.
 37. رزیتا منصف , & مسعود صلواتی نیاسری ,Hydrothermal architecture of $\text{Cu}_5\text{V}_2\text{O}_{10}$ nanostructures as new electro-sensing catalysts for voltammetric quantification of mefenamic acid in pharmaceuticals and biological samples,Biosensors and Bioelectronics,2021 01 20,SCOPUS ,JCR.
 38. رزیتا منصف , مریم غیاثیان آرانی , مسعود صلواتی نیاسری ,Design of Magnetically Recyclable Ternary $\text{Fe}_2\text{O}_3/\text{EuVO}_4/\text{g-C}_3\text{N}_4$ Nanocomposites for Photocatalytic and Electrochemical Hydrogen Storage,ACS Applied Energy Materials,2021 01 06.
 39. سحر زینتلو عجب شیر , مهین بلدی , مسعود صلواتی نیاسری ,Enhanced visible-light-driven photocatalytic performance for degradation of organic contaminants using PbWO_4 nanostructure fabricated by a new,

- simple and green sonochemical approach, *Ultrasonics Sonochemistry*, 2020 12 29, SCOPUS ,JCR.
40. Synthesis and characterization of cotton-silver-graphene quantum dots (cotton/Ag/GQDs) nanocomposite as a new antibacterial nanopad, *Chemosphere*, 2020 12 11, SCOPUS ,JCR.
41. Copper iodide decorated graphitic carbon nitride sheets with enhanced visible-light response for photocatalytic organic pollutant removal and antibacterial activities, *Ecotoxicology and Environmental Safety*, 2020 11 28, SCOPUS ,JCR.
42. Insight into Effects of Graphene and Zinc Oxide in Li₄Ti₅O₁₂ as Anode Materials for Li-Ion Full-Cell Battery, *International Journal of Hydrogen Energy*, 2020 08 03.
43. Preparation, Structural Analysis, and Assessing the Impacts of Holmium and Ytterbium on Electrochemical Hydrogen Storage Property of Strontium Cerium Molybdate Nanostructures, *Electrochimica Acta*, 2020 07 29.
44. Amino acid assisted-synthesis and characterization of magnetically retrievable ZnCo₂O₄-Co₃O₄ nanostructures as high activity visible-light-driven photocatalyst, *International Journal of Hydrogen Energy*, 2020 07 27.
45. Li₂MnO₃/LiMnBO₃/MnFe₂O₄ Ternary Nanocomposites: Pechini Synthesis, Characterization and Photocatalytic Performance, *International Journal of Hydrogen Energy*, 2020 07 05.
46. Toxic effects of Fe₂WO₆ nanoparticles towards microalga *Dunaliella salina*: Sonochemical synthesis nanoparticles and investigate its impact on the growth, *Chemosphere*, 2020 06 08.
47. Green hydrothermal synthesis of high quality single and few layers graphene sheets by bread waste as precursor, *Journal of Materials Research and Technology*, 2020 06 01.
48. Sonochemical synthesis and characterization of silver tungstate nanostructures for using as visible-light-driven photocatalyst for waste-water treatment, *Separation and Purification Technology*, 2020 05 14.
49. 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*, 2020 05 11.
50. A Review on Current Trends in Thermal Analysis and Hyphenated Techniques in the Investigation of Physical, Mechanical and Chemical Properties of Nanomaterials, *Journal of Analytical and Applied Pyrolysis*, 2020 05 07.
51. Superhydrophobic–superoleophilic copper–graphite/styrene-butadiene-styrene based cotton filter for efficient separation of oil derivatives from aqueous mixtures, *Cellulose*, 2020 03 27.
52. Green synthesis and characterization of DyMnO₃-ZnO ceramic nanocomposites for the electrochemical ultratrace detection of atenolol, *Materials Science and Engineering: C*, 2020 03 14.
53. Unveiling the synthesis of CuCe₂(MoO₄)₄ nanostructures and its physico-chemical properties on electrochemical hydrogen storage, *Journal of Alloys and Compounds*, 2020 01 30, SCOPUS ,JCR.
54. 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*, 2020 01 30, SCOPUS ,JCR.
55. Facile fabrication of silver iodide/graphitic carbon nitride nanocomposites by notable photo-catalytic performance through sunlight and antimicrobial activity, *Journal of Hazardous Materials*, 2020 01 16, SCOPUS ,JCR.
56. Magnetite as Inorganic Hole Transport Material for Lead Halide Perovskite-Based Solar Cells with Enhanced Stability, *Industrial & Engineering Chemistry Research*, 2020 01 03, SCOPUS ,JCR.

57. Performance improvement of dye sensitized solar cells based on cadmium sulfide/S, N co doped carbon dots nanocomposites, Journal of Molecular Liquids, 2019 12 27, SCOPUS, JCR.
58. Positive effects of novel nano-zirconia on flexural and compressive strength of Portland cement paste, Polyhedron, 2019 12 18, SCOPUS, JCR.
59. Strategic design and electrochemical behaviors of Li-ion battery cathode nanocomposite materials based on AlV3O9 with carbon nanostructures, Composites Part B, 2019 12 18, SCOPUS, JCR.
60. New Nanocomposites Based on Li-Fe-Mn Double Spinel and Carbon Self-Doped Graphitic Carbon Nitrides with Synergistic Effect for Electrochemical Hydrogen Storage Application, Industrial and Engineering Chemistry Research, 2019 12 10, SCOPUS, JCR.
61. Green synthesis of dysprosium stannate nanoparticles using Ficus carica extract as photocatalyst for the degradation of organic pollutants under visible irradiation, Ceramics International, 2019 11 09, SCOPUS, JCR.
62. CdSnO₃-graphene nanocomposites: Ultrasonic synthesis using glucose as capping agent and characterization for electrochemical hydrogen storage, Ultrasonics Sonochemistry, 2019 10 24, SCOPUS, JCR.
63. BaMnO₃ nanostructures: Simple ultrasonic fabrication and novel catalytic agent toward oxygen evolution of water splitting reaction, Ultrasonics Sonochemistry, 2019 10 12, SCOPUS, JCR.
64. Sonochemical synthesis, characterization and application of PrVO₄ nanostructures as an effective photocatalyst for discoloration of organic dye contaminants in wastewater, Ultrasonics Sonochemistry, 2019 10 09, SCOPUS, JCR.
65. Electro-spinning of cellulose acetate nanofibers/Fe/carbon dot as photoluminescence sensor for mercury (II) and lead (II) ions, Carbohydrate Polymers, 2019 10 03, SCOPUS, JCR.
66. Green synthesis of Ln₂Zr₂O₇ (Ln = Nd, Pr) ceramic nanostructures using extract of green tea via a facile route and their efficient application on propane-selective catalytic reduction of NO_x process, Ceramics International, 2019 08 26, SCOPUS, JCR.
67. Sonochemical-assisted route for synthesis of spherical shaped holmium vanadate nanocatalyst for polluted waste water treatment, Ultrasonics Sonochemistry, 2019 07 13, SCOPUS, JCR.
68. Magnetically retrievable ferrite nanoparticles in the catalysis application, Advances in Colloid and Interface Science, 2019 07 10, SCOPUS, JCR.
69. Green synthesis, characterization and investigation of the electrochemical hydrogen storage properties of Dy₂Ce₂O₇ nanostructures with fig extract, International Journal of Hydrogen Energy, 2019 06 10, SCOPUS, JCR.
70. Preparation of magnetically retrievable CoFe₂O₄@SiO₂@Dy₂Ce₂O₇ nanocomposites as novel photocatalyst for highly efficient degradation of organic contaminants, Composites Part B, 2019 06 01, SCOPUS, JCR.
71. Control sonochemical parameter to prepare pure Zn_{0.35}Fe_{2.65}O₄ nanostructures and study their photocatalytic activity, Ultrasonics Sonochemistry, 2019 05 29, SCOPUS, JCR.
72. Sonochemical-assisted synthesis of pure Dy₂ZnMnO₆ nanoparticles as a novel double perovskite and study of photocatalytic performance for wastewater treatment, Ultrasonics - Sonochemistry, 2019 05 20, SCOPUS, JCR.
73. Simple synthesis of Cu₂O/GQDs nanocomposite with different morphologies fabricated by tuning the synthesis parameters as novel antibacterial material, Composites Part B, 2019 05 08, SCOPUS, JCR.
74. Sol-gel synthesis of novel Li-based boron oxides nanocomposite for photodegradation of azo-dye pollutant under UV light irradiation, Composites Part

B,2019 05 06,SCOPUS ,JCR.

75. اسمائ خوبی, & مسعود صلواتی, High performance of electrocatalytic oxidation in direct glucose fuel cell using molybdate nanostructures synthesized by microwave-assisted method, Energy, 2019 04 25, SCOPUS ,JCR.

76. سحر زینتو عجب شیر , زهرا صالحی , امید امیری , مسعود صلواتی, Simple fabrication of Pr₂Ce₂O₇ nanostructures via a new and ecofriendly route; a potential electrochemical hydrogen storage material, Journal of Alloys and Compounds, 2019 04 02, SCOPUS ,JCR.

77. سحر زینتو عجب شیر , مریم سادات مرصعی , مسعود صلواتی, Simple approach for the synthesis of Dy₂Sn₂O₇ nanostructures as a hydrogen storage material from banana juice, Journal of Cleaner Production, 2019 03 05, SCOPUS ,JCR.

78. مژگان گودرزی , مسعود صلواتی , فاطمه یزدیان , مهناز امیری, Sonochemical assisted thermal decomposition method for green synthesis of CuCo₂O₄/CuO ceramic nanocomposite using *Dactylopius Coccus* for anti-tumor investigations, Journal of Alloys and Compounds, 2019 02 25, SCOPUS ,JCR.