europass

Faezeh Soofivand

ABOUT ME

I have been deeply dedicated to synthesis and characterization of many different kind of nanomaterials ranging from metal and metal oxide to ceramic and composite, for 12 years. Since I care about environment, I try to focus on environmentally-friendly approaches comprising using natural materials instead of chemical reactants, photocatalysis processes in order to degrade organic pollutants and waste-water treatment, and hydrogen storage as a sustainable fuel. Moreover, I am so enthusiastic about working on smart materials because these materials are pure meaning of chemistry what means Alchemy.

WORK EXPERIENCE

10/06/2016 – CURRENT esfahan, Iran

ACADEMIC ADVISOR KASHAN UNIVERSITY

Scientific advisor for students, MSc and Ph.D. courses
Researcher

01/01/2016 – CURRENT Iran

UNIVERSITY CHEMISTRY LECTURER AZAD UNIVERSITY, HORMOZGAN UNIVERSITY, HIGH SCHOOL

General chemistry
Inorganic chemistry 1, 2
Metal organic chemistry
Nanochemistry
Concept of Highschool Chemistry

01/08/2014 – CURRENT esfahan, Iran

SCIENTIFIC LABORATORY TECHNICIAN ALIREZA TAVAKKOLI

Writing Institute of Standards & Industrial Research of Iran
Laboratory technician

EDUCATION AND TRAINING

POSTDOCTORAL RESEARCHER, ASSISTANCE PROFESSOR

LANGUAGE SKILLS

Mother tongue(s): **PERSIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ITALIAN	A1	A2	A2	A1	B1
ENGLISH	B1	C2	B1	B1	C2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Microsoft Office package: Microsoft Word, Excel, PowerPoint, Access | Good use of Microsoft app, social network, internet search engines and e-mail | Google meet, Microsoft powerpoint | Digimizer | Xpert Hiscore | Xpert High Score Plus | Rietveld Refinement | Data analyzing using: FT-IR, XRD, N2 adsorption-desorption, BET, FESEM, EDX, TGA, AFM, and TEM | Material Characterization (XRD, SEM, XPS, EDS, TGA, UV-Vis, FTIR) | Nanomaterial characterization (SEM, TEM, EDX, XPS, FTIR, XRD, BET, TGA, and UV-Vis DRS) | SEM, TEM, BET, XPS, XRD, FT-IR, XPS, UV-VIS, TGA, HPLC, 1HNMR, 13CNMR | Software di acquisizione ed elaborazione XRD, FTIR, EDS (X'Pert Highscore Plus, OPUS, INCA) | Diffuse Reflectance Spectroscopy | raman spectroscopy

ADDITIONAL INFORMATION

CONFERENCES AND SEMINARS

Bellarus
ICBN12 Sonochemical synthesis of AgSCN nanostructures

Kashan, Iran
ICNN2012
Synthesis and characterization of silver chromate nanostructures by a simple precipitation route

Alushta, Ukrain
NAP2014 Synthesis and characterization of Zn(acac)2 one-dimensional nanostructures by novel method

Kish island, Iran
UFGNSM2015 ZnO and CuO graphene-based nanocomposites: Synthesis, characterization, investigating and comparing photocatalytic performance under UV light irradiation

Turkey, Istanbul
NanoTR10 Novel precursor-assisted synthesis and characterization of rare earth oxide nanoparticles

Tehran, Iran
ICN6 Simple synthesis of A/graphene nanocomposites (A = NiO, Co3O4) and investigation of photocatalytic performance under UV light irradiation

PUBLICATIONS

Simple and facile synthesis of Ag2CrO4 and Ag2Cr2O7 micro nanostructures using a silver precursor – 2012

F. Soofivand, F, Mohandes, M, Salavati-Niasari; Micro & Nano Letters, 7 (2012) 283-286

Silver chromate and silver dichromate nanostructures: sonochemical synthesis, characterization, and photocatalytic properties – 2013

F. Soofivand, F, Mohandes, M, Salavati-Niasari; Materials Research Bulletin, 48 (2013) 2084-2094

Novel solvent-less synthesis of CuO nanoparticles by using sublimated precursors – 2013

F. Soofivand, M, Salavati-Niasari; Materials Letters, 106 (2013) 83-86

Novel precursor-assisted synthesis and characterization of zinc oxide nanoparticles/nanofibers – 2013

F. Soofivand, M. Salavati-Niasari, F. Mohandes; Materials Letters, 98 (2013) 55-58

NiO nanostructures: synthesis, characterization and photocatalyst application in dye wastewater treatment

– 2014

F. Motahari, M.R. Mozdianfard, F. Soofivand, M. Salavati-Niasari; Rsc Advances, 4 (2014) 27654

AgSCN micro/nanostructures: Facile sonochemical synthesis, characterization, and photoluminescence properties

– 2014

F.Soofivand,M.Salavati-Niasari,F.Mohandes;Journal of Industrial and Engineering Chemistry,20,3780

Utilizing maleic acid as a novel fuel for synthesis of PbFe12019 nanoceramics via sol—gel auto-combustion route

– 2015

F. Ansari, F. Soofivand, M. Salavati-Niasari; Materials Characterization, 103 (2015) 11-17

Sol—gel auto combustion synthesis of BaFe12019 nanoceramics by using carbohydrate sugars as a novel reducing agent

– 2015

S. Mandizadeh, F, Soofivand, M. Salavati-Niasari; Advanced Powder Technology, 26 (2015) 1348-1354

Auto-combustion preparation and characterization of BaFe12019 nanostructures by using maleic acid as fuel

– 2015

S.Mandizadeh,F.Soofivand,M.Salavati-Niasari;Journal of Industrial and Engineering Chemistry, 26,167

Binary Roles of Schiff Bases as Capping Agent and Precursor for Synthesis of Metallic Nickel Ultrafine Nanoparticles

– 2015

Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry

Synthesis and characterization of highly luminescent EuOF nanoceramics by using prepared Eu (FOD) 3 nanoparticles via sublimation method as precursor

– 2015

F. Soofivand, M. Salavati-Niasari; Ceramics International, 41 (2015) 14394-14399

Synthesis and characterization of AgSCN micro/nanostructures by sonochemical method, – 2015

F.Soofivand,M.Salavati-Niasari;Synthesis and Reactivity in Inorganic,Metal-Organic,and Nano-Metal

Co 3 O 4/graphene nanocomposite: pre-graphenization synthesis and photocatalytic investigation of various magnetic nanostructures

– 2015

F. Soofivand, and M. Salavati-Niasari; RSC Advances 5, no. 79 (2015): 64346-64353

Simple synthesis and characterization of Ag2Cd14/AgI nanocomposite as an effective photocatalyst by co-precipitation methods

– 2016

M. Ghanbari, F. Soofivand, Salavati-Niasari; Journal of Molecular Liquids, 223 (2016) 21-28

Facile synthesis and characterization of nickel molybdate nanorods as an effective photocatalyst by co-precipitation method

– 2016

G.Kianpour,F.Soofivand,M.Salavati-Niasari;Journal of Materials Science:Materials in Electronics,27

Synthesis and characterization of hydrophilic and semiconductor cadmium chromite nanostructures
– 2016

Z. Mousavi, M. Salavati-Niasari, F, Soofivand; Journal of Electronic Materials, 45 (2016) 5739-5745

ZnCr 2 0 4 nanoparticles: Facile synthesis, characterization and photocatalytic properties – 2016

Z. Mousavi, F. Soofivand, M. Esmaeili-Zare, M. Salavati-Niasari, S, Bagheri; Scientific reports,6,1

Cu2Zn14/ZnO nanocomposites: In-situ synthesis, characterization and optical properties – 2016

F. Razi, F. Soofivand, M, Salavati-Niasari; Journal of Molecular Liquids, 222 (2016)435-440

Synthesis and characterization of NiMoO 4 via ultrasonic route by a novel precursor – 2016

K.Saberyan,F.Soofivand,M.Salavati-Niasari;Journal of Materials Science:Materials in Electronics,27

Synthesis, characterization, and morphological control of ZnTi03 nanoparticles through sol-gel processes and its photocatalyst application
– 2016

M. Salavati-Niasari, F. Soofivand;Advanced Powder Technology, 27 (2016) 2066-2075

SrCrxFe12-x019 nanoceramics as an effective catalyst for desulfurization of liquid fuels: Green sol-gel synthesis, characterization, magnetic and optical properties
– 2017

S. Mandizadeh, F. Soofivand, S. Bagheri, M. Salavati-Niasari;Plos one, 12 (2017)

Facile synthesis and characterization of CdTiO 3 nanoparticles by Pechini sol—gel method – 2017

M. Salavati-Niasari, F. Soofivand;Journal of Materials Science: Materials in Electronics, 28,14965

Step synthesis and photocatalytic activity of NiO/graphene nanocomposite under UV and visible light as an effective photocatalyst
– 2017

F. Soofivand, M. Salavati-Niasari;Journal of Photochemistry and Photobiology A: Chemistry,337,44-53

PbHgI 4/HgI 2 nanocomposite: simple synthesis, characterization and electrochemical and optical properties
– 2017

S.R.Yousefi,F.Soofivand,M.Salavati-Niasari;Journal of Materials Science:Materials in Electronics,28

Grafting of CuFe12019 nanoparticles on CNT and graphene: eco-friendly synthesis, characterization and photocatalytic activity
– 2018

M. Mahdiani, F, Soofivand, F, Ansari, M. Salavati-Niasari; Clean production, 176 (2018) 1185-1197

Investigation of experimental and instrumental parameters on properties of PbFe12019 nanostructures prepared by sonochemical method
– 2018

M. Mahdiani, F. Soofivand, M. Salavati-Niasari; Ultrasonics sonochemistry, 40 (2018) 271-281

Simple synthesis, characterization and investigation of photocatalytic activity of Ni2 nanoparticles using new precursors by hydrothermal method
– 2018

F.Soofivand,E.Esmaeili,M.Salavati-Niasari;Journal of Materials Science:Materials in Electronics,29

Using the [Co (oct) 2] as a New Precursor for Simple Synthesis of CoS2 Nanoparticles and Kinetics Studies on Photocatalytic Activities Under UV Irradiation

– 2018

F. Soofivand, M. Sabet, Seyghalkar, M. Salavati-Niasari;Journal of Nanostructures, 8 (2018) 75-81

"Ag2Hg14" a thermochromic compound with superionic conducting properties: Synthesis, characterization and investigation of graphene- based nanocomposites

– 2018

F. Soofivand, M. Salavati-Niasari;Journal of Molecular Liquids, 252 (2018) 1 12-120

Eco-friendly synthesis of cobalt hexaferrite and improvement of photocatalytic activity by preparation of carbonic-based nanocomposites for wastewater treatment

– 2019

F. Ansari, F. Soofivand, Salavati-Niasari; Composites Part B: Engineering, 165 (2019) 500-509

Sonochemical-assisted synthesis of pure Dy2ZnMn06 nanoparticles as a novel double perovskite and study of photocatalytic performance for wastewater treatment

– 2019

M. Baladi, F. Soofivand, M. Valian, M. Salavati-Niasari, , Ultrasonics sonochemistry, 57 (2019) 172

Controlled release of losartan from acid-and heat-treated halloysite nanotubes – 2019

F. Moeinpour, F. Soofivand, F.S. Mohseni-Shahri, Medicinal Chemistry Research, 28 (2019) 160-168

Sonochemical synthesis of Pr6M0012 nanostructures as an effective photocatalyst for waste-water treatment

– 2019

F.Namvar, S.K. Abass,F.Soofivand,M.Salavati-Niasari,H.Moayedi,Ultrasonics sonochemistry, 58,104687

Sonochemical synthesis and characterization of PrV04/CdO nanocomposite and their application as photocatalysts for removal of organic dyes in water

– 2021

R.Monsef, F.Soofivand,M.Ghiyasiyan-Arani,M.Salavati-Niasari;Journal of Molecular Liquids,336,116339

Sonochimical synthesis, characterization and physicochemical properties of Cu3Mo2O9 graphene-based nanocomposites for antibacterial therapeutic agent with enhanced activity,

– 2022

F.Karkeh-Abadi,F.Soofivand,M.Salavati-Niasari,Journal of Materials Research and Technology,18,4413

Facile synthesis of SrTiO3/CoAlMnO4 nanocomposite: A rechargeable heterojunction photocatalyst with superior hydrogen storage capability

– 2022

M. Valian, F. Soofivand, M. Mahmudovich Yusupov, M. Salavati-Niasari;Hydrogen Energy, 47, 31624

A green approach: Eco-friendly synthesis of Gd2Ti2O7/N-GQD nanocomposite and photo-degradation and electrochemical measurement of hydroxychloroquine as a perdurable drug

– 2023

M.Valian,F.Soofivand,A.Khoobi,Q.A.Yousif, M.Salavati-Niasari;Arabian Journal of Chemistry,16,104401

Boosting H2 storage capability of Er+3 manganite by adding CuO and g-C3N4 in the form of a four-component nanocomposite, International Journal of Hydrogen Energy

– 2023

R. Mohassel, F. Soofivand, M. Shabani-Nooshabadi, M. Salavati-Niasari;Hydrogen Energy, 48,10955

In-situ synthesis of TbAlO3/Tb3Al5O12/Tb2O3 three-component nanocomposite as a heterojunction photocatalyst with a green and eco-friendly approach

– 2023

M. Baladi, F. Soofivand,M. Salavati-Niasari; Arabian Journal of Chemistry,16,104697

ErMnO3/Er2Mn2O7/ZnO/GO multi-component nanocomposite as a promising material for hydrogen storage: Facile synthesis and comprehensive investigation of component roles

– 2023

R. Mohassel, F. Soofivand, M. Shabani-Nooshabadi, M. Salavati-Niasari;Energy Storage 65,107285

A comprehensive review: Different approaches for encountering of bacterial infection of dental implants and improving their properties

– 2023

Z.Heydariyan, F.Soofivand,M.Salavati-Niasari;Journal of Drug Delivery Science and Technology,104401

PROJECTS

Facile and simple synthesis of Micaceous Iron Oxide

NETWORKS AND MEMBERSHIPS

CURRENT
Member of the Iranian Scientific Association of Chemistry

CURRENT
Member of the Young Researchers Club of Azad University

CURRENT
Member of the Iranian Association of Nanoscience and Nanotechnology

2011 – 2012
Member of the Scientific Committee and Judge of the ICNN 2012, and ICBN12 Conferences

HONOURS AND AWARDS

2016
The best researcher of Kashan university – University of Kashan

SCIENTIFIC REVIEWER IN ISI JOURNALS

Journal of Industrial and Engineering Chemistry; Elsevier

Journal of Patents on Nanotechnology; Bentham Science

Journal of Current Nanoscience; Bentham Science

Journal of Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano metal Chemistry; Taylor & Francis

RESEARCH EXPERIENCES

Synthesis of different Schiff-base and micaceous iron oxide as anti-corrosion agents

Synthesis of single and multiple perovskites (halide and oxide)

Synthesis of nanofluids for heat-transfer studies

Synthesis of many different kinds of magnetic nanomaterials

Working on hydrogels and different kinds of clays for water-treatment and drug delivery

Expert in photocatalytic process ranging from Types I and II to Z- and S- Schemes

Control size and morphology of nanomaterials in order to engineer their properties

RECOMMENDATIONS

Masoud Salavati-Niasari Full Professor, Institute of Nano Science and Nano Technology, University of Kashan

- I have know her for 13 years from 2010 till now.
- She is wonderful in synthesis many different kinds of nanomaterials
- I strongly recommend her to cooperate with your organization

Email _____ |

Mohammad Joshaghani Full Professor, Inorganic Chemistry Department, Razi University

- I have know her for 18 years
- She is wonderful in doing her responsibilities
- I strongly recommend her to accept in your organization

Email _____ |

PROFESSIONAL SKILLS

Programming

Python; In learning status

Software

Matlab, Gussian, Hyperchem, MeasurIT, X'pert, Digimizer

Data analyses

Electronic microscopy (SEM, TEM (Digimizer software), HRTEM, SAED (MeasureIT software), EDX, and AFM) and X-ray analyses (XRD (X'pert software and Rietveld analysis), XRF, XPS)