

Curriculum Vitae

1. Personal Details

Name: Alireza Sedrpoushan
Nationality: Iranian
Date of Birth: 10/12/1962
Marital Status: Married

Address: Iranian Research Organization for Science & Technology,
Sh. Ehsani Rad St., Enghelab St., Parsa Sq., Ahmadabad
Moustofi Rd., Azadegan Highway, P. O. Box 13815-3538,
Tehran, I.R.Iran

Present Occupation: Assistant Professor in Organic Chemistry
Department of Chemical Technology
Iranian Research Organization for Science and Technology

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Phone Number: +9821- 56276637 (Direct)

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2. Academic Qualification:

<i>Award</i>	<i>Year of Award</i>	<i>Institution</i>
Ph.D. Organic Chemistry	2011	Bu-Ali Sina University, Iran
MS. Organic Chemistry	1992	Mazandaran University, Iran
BS. Pure Chemistry	1989	University of Tehran, Iran

3. Administrative Experiences:

➤ Iranian Research Organization for Science and Technology (IROST)

- Vice President of IROST
September 2015-April 2018
- Director-General of President's Office and Public Relations
September 2015-April 2018
- Director of IORA Regional Centre for Science and Technology Transfer (IORA RCSTT)
July 2017-August 2018
- Senior Advisor of IORA Regional Centre for Science and Technology Transfer (IORA RCSTT)
June 2016- 31 July 2017
- Head of Scientific Data and Innovation, Institute of Yazd
2001-2002
- Head of Scientific and Research Affairs, Institute of Yazd
1993-1997
- Vice President of Institute of Yazd
Alternately
- Head of Department of Chemistry- Institute of Yazd
1992-2002

➤ Iranian National Standards Organization

- Research Consultant in Chemical Technology
1997-2000

➤ Science and Technology Park- Institute of Yazd

- Head of Legal Department and Contracts
2003-2004
- In Charge of Establishing the Fund for Supporting the Researchers and Inventors of Institute of Yazd
2003-2004

4. Research Experiences:

No	Project Title	Role	Customer	Status
1	Iron Plating in Tin Bath	Manager	Semnan Zoub Co.	completed
2	Design and Manufacture of a Pilot System for Treatment of Textile Wastewater	Manager	Gerdabaf Factory	completed
3	Preparation of Activated Carbon	Manager	Governor of Yazd	completed
4	Synthesis of New Heterocycles	Manager	Institute of Yazd	completed
5	Synthesis of Pheromones of Grape Vine Moth	Manager	Institute of Yazd	completed
6	Design and Manufacture of a Mobile System for Pretreatment of Textile Wastewater	Manager	Water & Wastewater Co., Yazd	completed
7	Design and Manufacture of a Small System for Removing Gas Pollutants	Manager	Plaska Co.	completed
8	Investigating the Applications of Bentonit	Manager	Institute of Yazd	completed
9	Descaling Low-Priced Fuel of Power Plants	Manager	Yazd Regional Electric Company	completed
10	Preparation of Gas-Liquid Chromatography Column packing with Linked Stationary Phase	Manager	Institute of Yazd	completed
11	Investigating the Methods of Separating Rare Earth Elements from Phosphate Minerals	Main Partner	Institute of Yazd	completed
12	Hydrolysis of Sucrose into Glucose and Fructose and their Separation by Ion Exchange Resins	Main Partner	Institute of Yazd	completed
13	Investigating the Structure of Phosphate Minerals Used in Animal Feed	Main Partner	Institute of Isfahan	completed
14	Manufacture of a PH Controller	Supervisor	Institute of Yazd	completed
15	Manufacture of Laboratory	Supervisor	Institute of Yazd	completed

	Equipment			
16	Database for Treatment of Textile Wastewater	Supervisor	Institute of Yazd	Completed
17	Studies on the Impact of the Pollutants in the Watercourse of Rivers of Sayedeh and Talkh Abad	Consultant	Yazd Regional Water Co.	Completed
18	Investigating and Measuring Water Quality and Impact of the Industrial Wastewater Produced by Tile Factories on the Water Resources	Main Partner	Yazd Regional Water Co.	Completed
19	Optimization of the Production Process of Sodium Phomarate	Supervisor	Noor Chemical Co.	Completed
20	Stabilizing Pomegranate Seeds by Micro-Encapsulation Technology	Partner	Vice-Presidency for Science and Technology	Completed
21	Functionalize Silica nanoparticles for Production of Silica Phenyl Sulfonic Acid as a New Acidic Heterogeneous Nanocatalysts and its Application in Organic Conversions	Manager	National Research Fund	Completed
22	Production of Polyvinyl Alcohol with a minimum of 75 Percent alcohol	Supervisor	Department of Chemical Technology of IROST	Completed
23	Synthesis of CMK-3 Carbocatalyst and Evaluation its Catalytic Activity in Oxidation Reactions	Manager	Department of Chemical Technology of IROST	Completed
24	Lichen substances from Iran: Characterization of structure and their biological properties	Manager	Center for International Scientific Studies and Collaboration	Completed

5. ISI Publications:

1-One-Pot Synthesis of Fluorine-Containing Alkenes from In Situ-Generated Stabilize Phosphorus Ylides, *Phosphours, sulfur and silicon and the Related Elements*, **2007**,182,545-549

2-Tertiary phosphines catalyzed stereoselective synthesis of O-vinyl Ethers from Alkyl Acetylenecarboxylates and Alcohols, *Phosphours, sulfur and silicon and the Related Elements*, **2007**,182,1633-1640

3-Synthesis of Dialkyl 8-Oxo-2,8-dihydroisoxazolo[3,2- α] isoindole-2,3-dicarboxylates from Dialkyl Acetylenedicarboxylates, N- Hydroxy Phthalimide and Tributylphosphine, *Phosphours, sulfur and silicon and the Related Elements*, **2007**,182,2523-2527

4-Highly Efficient formylation of Alcohols, thiols and Aniline Derivatives by a Heterogeneous (HCOOH/SiO₂) System under Microwave Irradiation and Solvent-Free Conditions, *South African Journal of Chemistry*, **2009**,62,39-43

5- Trichloroisocyanuric Acid-Catalyzed Reaction of Indoles: An Expeditious Synthesis of Bis-Indolyl, Tris-Indolyl, Di(bis-Indolyl), Tri(bis-Indolyl), and Tetra(bis-Indolyl)methane under Solid-State Condition, *journal of heterocyclic chemistry*, **2010**,47,1398-1405

6- 1,3-Dibromo-5,5-Dimethylhydantoin (DBH) as a mild and efficient catalyst for chemoselective thioacetalization of carbonyl compounds and thioacetalization under mild conditions, *Phosphours, sulfur and silicon and the Related Elements*, **2010**,185,1-8

7- Synthesis and Application of Modified Silica Sulfuric Acid as a Solid Acid Heterogeneous Catalyst in Michael Addition Reactions, *journal of heterocyclic chemistry*, **2011**,48,977-986

8- Synthesis and Application of Silica Phenyl Sulfonic Acid as a Solid Acid Heterogeneous Catalyst for One-pot Synthesis of 2-Aryl-1-arylmethyl-1H-1,3 -benzimidazoles and Bis(indolyl)methanes in Water, *journal of heterocyclic chemistry*,**2011**,48,1448-1454

9-Trichloroisocyanuric Acid (TCCA) and N-Chlorosuccinimide (NCS) as Efficient Reagents to Direct Oxidative Conversion of Thiols and Disulfide to Sulfonyl Chlorides, *Phosphours, sulfur and silicon and the Related Elements*, **2012**,187,769-775

10-Synthesis of Silica Bromide as Heterogeneous Reagent and its Application to Conversion of Alcohols to Alkyl Bromides, *Letters in Organic Chemistry*, **2012**,9,598-603

11- Silica phenyl sulfonic acid (SPSA) as a solid acid heterogeneous catalyst for Chemoselective Thioacetalization of Carbonyl Compounds and dethioacetalization under Mild Conditions, *journal of heterocyclic chemistry*, **2013** ,50, E204-E206

12-One-pot tandem reactions for direct conversion of thiols and disulfides to sulfonic esters, and Paal–Knorr synthesis of pyrrole derivatives catalyzed by TCCA, *Journal of Sulfur Chemistry*, **2013**, 34,347-357

13-A Very Useful and Mild Method for the Deoxygenation of Sulfoxide to Sulfide with Silica Bromide as heterogeneous promoter, *Journal of Sulfur Chemistry*, **2014**, 35,7-13

14- Efficient Synthesis of 2,4,5-Triaryl-1H-Imidazoles from Aromatic Aldehydes with HMDS Catalyzed by N-Bromosaccharin (NBSa), *Letters in Organic Chemistry*, **2014**, 11,287-292

15-A new recyclable 1,4-bis(3-methylimidazolium-1yl)butane ditribromide [bmImB](Br₃)₂ ionic liquid reagent for selective bromination of anilines or phenols and a-bromination of alkanones under mild conditions. *RSC Adv.*, **2014**, 4, 25898-25903

16-Selective synthesis of sulfoxides and sulfones from sulfides using silica bromide as the heterogeneous promoter and hydrogen peroxide as the terminal oxidant, *RSC Adv.*, **2014**, 4, 40505-40510

17-Cobalt manganese oxide nanoparticles as recyclable catalyst for efficient synthesis of 2-aryl-1-arylmethyl-1H-1,3-benzimidazoles under solvent-free conditions, *Appl. Organometal. Chem.* **2015**, 29, 266-269

18- A mesoporous SBA-15 silica catalyst functionalized with phenylsulfonic acid group (SBA-15-Ph-SO₃H) as a novel hydrophobic nanoreactor solid acid catalyst for a one-pot three-component synthesis of 2H-indazolo[2,1-b]phthalazine-triones and triazolo[1,2-a]indazole-triones, *RSC Adv.*, **2015**, 5, 68523-68530

19-Palladium immobilized on amidoximefunctionalized magnetic Fe₃O₄ nanoparticles: a highly stable and efficient magnetically recoverable nanocatalyst for sonogashira coupling reaction, *Appl. Organometal. Chem.* **2015**, 29,834-839

20- Synthesis of 5-Alkylidene-2, 4-thiazolidinediones and Rhodanines Promoted by Propylamino-functionalized Nano-structured SBA-15. *Organic Preparations and Procedures International*, **2015**, 47(4), 309-315

21- Palladium supported on diaminoglyoxime-functionalized Fe₃O₄ nanoparticles as a magnetically separable nanocatalyst in Heck coupling reaction. *Appl. Organometal. Chem.* **2015**, 29,825-828

22- Chemoselective Synthesis of 2,2-Arylmethylene bis-(3-Hydroxy-2-cyclohexenes) (“Tetraketones”) in Hexafluoro-2-propanol, *Organic Preparations and Procedures International*, **2016**, 48,62-71

23- Efficient N-Boc protection of amines by a reusable heterogeneous solid acid nanocatalyst at room temperature. *Research on Chemical Intermediates*, **2016**, 42(2), 1451-1461

24- Synthesis of Zn-SBA-15 as a new pigment for spacecraft white thermal control coatings *J. Coat. Technol. Res.* **2016** , 13 (4) 727–733

25- Tungstate ions (WO_4^{2-}) supported on imidazolium framework as novel and recyclable catalyst for rapid and selective oxidation of benzyl alcohols in the presence of hydrogen peroxide, *Appl. Organometal. Chem.* **2016**, 31, 1-6

26- Mesoporous SBA-15 silica catalyst functionalized with phenylsulfonic acid groups (SBA-15-Ph-SO₃H) as efficient nanocatalyst for chemoselective thioacetalization of carbonyl compounds, *JOURNAL OF SULFUR CHEMISTRY*, **2016** , 38(1), 112–118

27- Co-Zeolite Imidazolate Frameworks (ZIF-9@Zeolite) as Heterogen Catalyst for Alcohols Oxidation, *Catal Lett.* **2017**, 147, 196–203

28- Nanoscale Graphene Oxide Sheets as Highly Efficient Carbocatalysts in Green Oxidative Conversion of Benzylic Alcohols and Aromatic Aldehydes *Chinese Journal of Catalysis*.**2017**,38,745-757

29-Selective Oxidation of Benzylic C-H Using Nanoscale Graphene Oxide as Highly Efficient Carbocatalyst: Direct Synthesis of Terephthalic Acid, *Organic Process Research & Development* **2017**,21(4), 641-647

30- A non-enzymatic glucose sensor based on NiO nanoparticles/functionalized SBA 15/MWCNT-modified carbon paste electrode, *Ionics* **2017**, 23, 1553–1562

31- Tungstate supported mesoporous silica SBA-15 with imidazolium framework as a hybrid nanocatalyst for selective oxidation of sulfides in the presence of hydrogen peroxide, *Appl. Organometal. Chem*, **2017**,

32- Chemoselective Synthesis of Tetraketones in Water Catalyzed by Nanostructured Diphosphate Na₂CaP₂O₇, *Organic Preparations and Procedures International*, **2018**, 50, 288–300

33- Synthesis of 2,5-Dimethyl-N-substituted Pyrroles Catalyzed by Diethylenetriaminepentaacetic Acid Supported on Fe₃O₄ Nanoparticles, *Organic Preparations and Procedures International* , **2018**, 50, 50, 465–481

34- Needle ball-like nanostructured mixed Cu-Ni-Co oxides: Synthesis, characterization and application to the selective oxidation of sulfide to sulfoxide, *Materials Science & Engineering C*, **2019**, C103

35- Application of biosynthesized palladium nanoparticles (Pd NPs) on Rosa canina fruit extract-modified graphene oxide as heterogeneous nanocatalyst for cyanation of aryl halides, *Appl. Organometal. Chem*, **2019**, 1-7

36- Ionic-liquid-modified CMK-3 as a support for the immobilization of molybdate ions (MoO_4^{2-}): Heterogeneous nanocatalyst for selective oxidation of sulfides and benzylic alcohols, *Materials Science & Engineering C*, 2020, 110577, 1-11

37- An efficient heterogeneous Cu(I) complex for the catalytic oxidation of alcohols and sulfides: synthesis, characterization, and investigation of the catalyst activity, *Journal of Coordination Chemistry*, **2021**, 74 (14), 2344-2364

38- Effect of SBA-15-based immobilization of a new phosphoric triamide Ag (I) complex on its catalytic activity: Synthesis, characterization, crystallography and catalytic investigation, *Materials Chemistry and Physics*, **2022**, 287, 126316

39- A new secondary metabolite profiling of the lichen *Diploschistes diacapsis* using liquid chromatography electrospray ionization tandem mass spectrometry, *Inorganic Chemistry Communications*, **2022**, 145, 110006

6. ISC Publication:

1- A New Method for Production of a Heterogeneous Acid Catalyst of Sulfo benzyl Silica, *National Journal of Nuclear Science and Technology*, **2003**.

2- “Production and Modification of Benzyl Silica as a Cationic Exchange Resin and its Spectrophotometry”, *Journal of Basic Sciences of AL Zahra University*, **2004**, 17

3- Studies of antibacterial effects of synthesized silver nanoparticles using a novel thermotolerant *Isotericola variabilis* sp. IRSH1 against *Staphylococcus aureus* and *Pseudomonas aeruginosa*, *JQUMS*, **2017**, 21(3), 23-30

4- Optimization of microcapsulation of pomegranate seed oil by spray drying Technology, *Innovative Food Technology*, **2016**, 11, 25-38

5- Catalytic applications of phosphorus compounds, *JACR*, **2019**, 13(3), 5-31.

7. International Conferences:

- Sedrpoushan, A., “Removing Cations and Anions Present in Water and Wastewater Using Sawdust” 2nd Conference on Water and Wastewater Management in Asian Countries, May 2001.

-Sedrpoushan, A. “New Method for Preparation of Sulfo benzyl Silica as a Nano acid Catalysts in Ethyl Acetate Reactions”, the First International Congress of Nanotechnology and its Applications in the Oil, Gas and Petrochemical Industry, 2006.

- Sedrpoushan, A. “selective Oxidation of Sulfides To Sulfoxides Employing Molybdate Supported on CMK-3 with Imidazolium Framework as a Hybrid Nanocatalyst” 8th International Conference on Advances in Chemistry, Chemical Engineering and polymer, turkey, 2018

8. National Conferences:

- "Alkylation of aromatic compounds with silica chloride" 13th Seminar of Organic Chemistry, Bu-Ali Sina University, Hamedan, September 2006.
- "Application of Ammonium borohydride derivatives for reduction of Aldehydes and Ketones in solvent free media (green solvent)" 13th Seminar of Organic Chemistry, Bu-Ali Sina University, Hamedan, September 2006.
- "One-pot synthesis of Fluorine- containing Alkenes from In Situ-Generated stabilized phosphorus ylides" 13th Seminar of Organic Chemistry, Bu-Ali Sina University, Hamedan, September 2006.
- "Thiazolium salt Immobilized on Ionic liquid: An Efficient catalyst and solvent for benzoin and acyloin condensation" 13th Seminar of Organic Chemistry, Bu-Ali Sina University, Hamedan, September 2006.
- "Synthesis and application of silica phenyl sulfonic acid (SPSA) as a solid acid heterogeneous catalyst for one-pot synthesis of 2-aryl-1-arylmethyl-1H-1,3- benzimidazoles and bis(indolyl)methanes in water", 8th National conference of Chemistry, Payam Noor University, Qazvin. Sep 2010.
- "Synthesis and application of modified silica sulfuric acid (MSSA) as a solid acid heterogeneous catalyst in Michael addition reactions", 17th Seminar of Organic Chemistry, Mazandaran University, Babolsar, October 2010.
- "Deoxygenation of sulfoxide with silica bromide", 17th Seminar of Organic Chemistry, Mazandaran University, Babolsar, October 2010.
- "Optimization of microencapsulation of pomegranate seed oil by response surface methodology", 2th national Congress on Medicinal Plants, Tehran, May 2013
- "Synthesis of 5-aryliden-2,4-thiazolidinedione and 5-benzylidene rhodanines with the aid of nano re-usable heterogeneous SBA-15-Pr-NH₂ Based catalyst", 20th Seminar of Organic Chemistry, Hamedan, July 2013
- "Investigating the Antibacterial Impact of Methanolic Extract from Ramalina Senesis Lichen", 8th National biotechnology Congress of I.R.Iran and 4th National Biosafety Congress of Iran, Tehran, August 2013.
- "Microencapsulation of pomegranate seed oil by spray drying", 17th Iranian Chemistry Congress, Rafsanjan, September 2014
- "SBA-15-Ph-SO₃H as a Heterogeneous acid catalyst and Recyclable for Protection of amines and amino acids by tert-butyloxycarbonyl at Room Temperature and without Solvents", 3rd National Conference on Nanotechnology: From Theory to Practice", Isfahan, February 2015

- “Design new hybrid catalyst based SBA-15 as solid acid Nanoreactor for one-pot three component synthesis of 2H-indazolo[2,1-b]phthalazine-triones”, the Fourth International Conference on Oil, Gas, Refining & Petrochemical, Tehran, 2015
- “Preparation of stabilized ionic liquid on the SBA-15 and evaluating its catalytic property in oxidation of alcohols”, 24th Iranian conference of organic chemistry”, Tabriz, August 2016
- “Modification of SBA-15 and its catalytic property in the oxidation of sulfides to sulfones”, The First National Conference on Nano Technology, shahre quds- February 2017
- “Preparation of stabilized Ionic Liquid on the SBA-15 and Evaluation Its Catalytic Property in Oxidation of Sulfides”, 19th Iranian Chemistry Congress, Shiraz, February, 2017
- “Synthesis of nanocatalysts of tri-oxide spherical particles Fe-Mn-Cu for rapid oxidation of aromatic alcohols”, 2th National Conference on Nanostructures, Nanoscience and Nanoengineering, Kashan, February 2018
- “Studying the effect of particle size of N-nicotinyl N'',N'- bis(tertiobutyl) phosphoric triamide compound in benzaldehyde oxidation reaction catalysis”, 5th International Conference on Applied Research in Chemistry and Chemical Engineering with an emphasis on indigenous technology in Iran, September 2019
- “Synthesis of CMK-3 Carbocatalyst and Evaluation its Catalytic Activity in Oxidation Reactions” 4th National Congress Mechanical Engineering and Chemical Engineering, Tehran, Kharazmi University, ISC. February 2019
- “Oxidation of aldehydes to acids in presence of hydrogen peroxide, with Tungstate Supported mesoporous silica SBA-15 with Imidazolium Framework as a hybrid nanocatalyst”, 4th National Congress Mechanical Engineering and Chemical Engineering, , Tehran, Kharazmi University, ISC. February 2019
- “A New Study of Biological Properties of the Lichens *Diploschistes Ocellatus* and *Diploschistes Diacapsis* from Iran”, 8th National Congress on Medicinal Plants, Tehran, Tarbiat Modares university, ISC. April 2019
- “Investigating the catalytic activity of N-nicotinyl N'',N'- bis(tertiobutyl) phosphoric triamide compound in methyl phenyl sulfide oxidation reaction”, 6th International Conference on Chemical and Chemical Engineering, February 2020
- “Phytochemical and antibacterial properties of *Diploschistes diacapsis* from Iran”, 4th National Conference on Innovation and Technology of Biological Sciences, Iranian Chemistry, Tehran, Center for the Development of Interdisciplinary Studies. July 2021
- “Identification of Secondary Metabolites of the Lichen *Diploschistes ocellatus* from Iran Detected by High Performance Liquid Chromatography Mass Spectrometry (HPLC-MS) ”,

28th Iranian Conference on Organic Chemistry, Tehran, Chemistry & Chemical Engineering Research Center of Iran, ISC. Sep 2021

- "Synthesis of mixed metal nano-oxide of iron-nickel-cobalt and its application in sulfide oxidation reactions to sulfoxide", 4th national Congress of Chemistry and Nanochemistry from Research to Technology, Tehran, Iranian Chemical Science and Technologies Association, ISC, Sep 2021

"Synthesis, identification and investigation of the structure of zinc (II) complex containing N-nicotinyl N",N'- bis(tertiobutyl) phosphoric triamide ligand", 4th national Congress of Chemistry and Nanochemistry from Research to Technology, Tehran, Iranian Chemical Science and Technologies Association, ISC, Sep 2021

- "Synthesis of manganese-nickel-cobalt metal nano-oxide and its catalytic application in sulfide-to-sulfoxide oxidation reactions" 3rd Iranian Catalyst Conference, Tehran, Iranian Research Organization for science and Technology. May 2022

- "Investigating parameters affecting the efficiency of benzyl alcohol oxidation reaction using cobalt (II) complex containing N-nicotinyl N",N'- bis(tertiobutyl) phosphoric triamide ligand", 3rd Iranian Catalyst Conference, Tehran, Iranian Research Organization for science and Technology. May 2022

- "Reduction of carbonyl group using phosphoramidate catalysts", 3rd Iranian Catalyst Conference, Tehran, Iranian Research Organization for science and Technology. May 2022

- "Catalyst of methyl phenyl sulfide oxidation reaction using C₂₈H₅₀Cl₂CoN₈O₄P₂ compound", 3rd Iranian Catalyst Conference, Tehran, Iranian Research Organization for science and Technology. May 2022

9. Academic Teaching:

Subjects Taught at BS.

- Organic Physics Chemistry
- Inorganic Chemistry (II)
- Organic Chemistry (I)
- Chemistry and Society
- General Chemistry (I)
- Synthesis of Organic Materials
- Chemistry and Paint Technology
- Some Issues of Physics Chemistry
- Organic Chemistry (II)
- Organic Chemistry (III)
- Applications of Spectroscopy in Organic Chemistry
- Water and Industrial Wastewater Treatment (Lab)
- Practice and Research
- Principles of Water and Wastewater Treatment
- General Chemistry (II)
- Environmental Chemistry

- Analytical Chemistry

Subjects Taught at MS.:

- Application of Advanced Instrumental Methods in Analysis of Contaminates
- Advanced Organic Chemistry
- Synthesis of Organic Materials (advanced)
- Heterocyclic Chemistry
- Surface Chemistry and Solid State
- Supra-Molecular Chemistry

Subjects Taught at Ph.D.

- New Issues about Organic Chemistry (Nanocatalysts)
- Isolation, Purification and Identification of Organic Compounds
- Advanced Organic Synthesis

Subjects Taught at Training Workshops:

Theoretical and Practical Training on Gas Chromatography
For: Standards and Industrial Research Organization of Yazd
Venue, Institute of Yazd
Period: 2 months

MA. Thesis Supervised:

No.	Thesis Title	Supervisors
1	Production of Heterogeneous Acid catalysts from Silica Gel Derivatives	1.Dr. Seyed Morteza Famil Farnia 2. Alireza Sedrpoushan
2	Investigating the Methods for removing the Contaminated Anions and Cations from Bafgh Water	1.Dr. Ali Asghar Ensafi 2. Alireza Sedrpoushan
3	Synthesis of Packings for Gas-Liquid Chromatography Columns with Linked Stationary Phase and Isolation of Carbohydrate Derivatives	1.Dr. Majid Mirmohammad Sadeghi 2. Alireza Sedrpoushan
4	Synthesis of packing for Gas-Liquid Chromatography Columns with Linked Stationary Phase and Isolation of Amino acid Derivatives	1.Dr. Majid Mirmohammad Sadeghi 2. Alireza Sedrpoushan
5	Synthesis of New Derivatives of Quinolinecarboxylic acid	1.Dr. Majid Mirmohammad Sadeghi 2. Alireza Sedrpoushan
6	Synthesis of Alkylated Silica Gel Derivatives and their Investigation as Carriers Stabilizing Alkaline Phosphatase and Alpha- Chemo Tripsina	1.Dr. Majid Mirmohammad Sadeghi 2. Alireza Sedrpoushan
7	Condensation reaction of Tiobarbituric Acid with some of Aldehydes Using Alkaline Catalysts	1.Dr. Majid Mirmohammad Sadeghi 2. Alireza Sedrpoushan
8	Synthesis of Derivatives of arilidine 2-Methyl (Phenyl) Oxazol- 5-on And Investigation into their Applications in Amino Acids Production	1.Dr. Majid Mirmohammad Sadeghi 2. Alireza Sedrpoushan
9	Condensation Reactions between Dimethyl Barbituric Acid and Aromatic Aldehydes and Ketons and Investigation into their applications into Synthesis of Europyrimidine Derivatives	1.Dr. Majid Mirmohammad Sadeghi 2. Alireza Sedrpoushan

10	Synthesis of new derivatives of phenyl quinoline carboxylic acid	1.Dr. Majid Mirmohammad Sadeghi 2. Alireza Sedrpoushan
11	Modification of silica and carbon nanostructures using ionic liquids and evaluating their catalytic properties in oxidation and C-C coupling reaction	1.Dr. Farajollah Mohanazadeh 2. Dr. Alireza Sedrpoushan
12	Evaluation of Antimicrobial and Preservative Effects of Derived Compounds from Extremophile Isolates	1.Dr. Jaffar Hemat 2.Dr. Alireza Sedrpoushan
13	Synthesis of Heterogeneous Acid Catalysts Based on Nano Silica Structures and Investigation into their Applications in Organic Reactions	Dr. Alireza Sedrpoushan
14	Synthesis of Heterogeneous catalysts Based on Nano Silica Structures and Investigation into their Applications in Oxidation Reactions	Dr. Alireza Sedrpoushan
15	Stabilization of some aromatic compounds on silicate nanoparticles SBA-15	1.Dr. Alireza Sedrpoushan 2.Dr. Malek Hekmati
16	Synthesis of hybrid catalysts based on carbon and silicate Nano structures and evaluating their application in oxidation reactions	Dr. Alireza Sedrpoushan

MA. Thesis Advised:

No.	Thesis Title	Supervisor
1	Synthesis of some of conjugated Heterodiene and Investigation into their Reaction with Isocyanides	Dr. Eissa Yavari
2	Investigating the effect of nano-clay enhancement on the transparent coating properties of acrylic / melamine case	Dr zaker Bahreini
3	Synthesis of alkyl iodides and esters from alcohols with silica iodide as a new heterogeneous reagent	1.Dr. Farajollah Mohanazadeh 2. Dr. Alireza Sedrpoushan
4	Study the effect of pigment and nano clay on inkjet in properties	Dr zaker Bahreini

Ph.D. Thesis Supervised:

No.	Thesis Title	Supervisor
1	Synthesis of hybrid catalysts based on carbon and silicate nanostructures and evaluating their application in oxidation reactions	Dr. Alireza Sedrpoushan
2	Modification of silica and carbon nanostructures using ionic liquids and evaluating their catalytic properties in oxidation reactions	1.Dr. Farajollah Mohanazadeh 2. Dr. Alireza Sedrpoushan
3	Synthesis of new transition metal complexes using N – nicotinyl and N – benzoyl phosphoric triamide ligands and investigating their catalytic effect on oxidation reactions of alcohols and sulfides in liquid phase	1.Dr. Nasron Oroujzadeh 2. Dr. Alireza Sedrpoushan

Establishment of Laboratories:

No.	Laboratory Name	Year of Completion	Place of Establishment
1	Water and Wastewater Treatment Lab	1990	Babolsar Institute of Chemistry Mazandaran University
2	Water and Wastewater Treatment Lab	1993	Iranian Research Organization for Science and Technology- Yazd
3	Organic Chemistry Lab	1993	Iranian Research Organization for Science and Technology- Yazd
4	Analytical Chemistry Lab	1994	Iranian Research Organization for Science and Technology- Yazd

National Patents Registered:

Patent Title: Stabilizing Pomegranate seed Oil by Micro-Encapsulation Technology as a Nutritional Supplement

Patent Number: 86683

Registration Date: September 14, 2015

Patent Title: Preparation of ethyl acetate using a modified mesoporous silica nanostructure catalyst

Patent Number: 15-90907

Registration Date: 04 January 2017

Patent Title: Tungstate ions immobilization on modified mesoporous silica as a novel nanocatalyst in the oxidation of sulfides

Patent Number: 19 July 2017

Registration Date: 92852

Patent Title: Synthesis of CMK-3 carbocatalyst and evaluation its catalytic activity in oxidation of organic sulfide to sulfoxide

Patent Number: 101128

Registration Date: 13 May 2020

Patent Title: Synthesis of Cu (II) complex supported mesoporous silica SBA-15 as efficient catalyst for rapid oxidation of aldehyde to carboxylic

Patent Number: 10107

Registration Date: 11 May 2020

Other Accomplishments:

1. Top student at graduate level, Mazandarn University
2. Researcher of the year of Yazd province, 1999
3. Research partner of the winner project entitled "Production of the Raw Material of Salmeterole " at the 17th Razi Award