



Dr. AliMorad Rashidi

Position

- PhD in Chemical Engineering-Nano , Assistant professor of Research Institute of Petroleum Industry (RIPI).

- **Leader- Nanocatalyst Group- Biofuel Research Team (BRT), ABRII**

- Head of Nanotechnology Research Center, Carbon Nanotubes ,Plan Director.



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Date of Birth

1972 in Khozestan, Eizeh, Iran

Academic Career

Ph.D in chemical engineering, faculty of engineering , Tehran University,Tehran,Iran(18.58 from 20)-2007

M.SC. Chemical Engineering, faculty of engineering, Tehran University (17.73 from20), Tehran, Iran-2000

B.SC. Chemical Engineering, University of Petroleum (16.68 from20), Ahwas, Iran-1998

Research Area

- Carbon nanostructures (nanoporous carbon, graphene, fullerene, activated carbon, carbon molecular sieve, carbon nanotubes) and nano metal oxides (MgO, ZnO, Alumina,), nanoporous structure (MCM-41)
- Adsorption technology (adsorbent, PSA process and ANG).
- Nano Catalyst , Catalyast, Catalytic reaction and reactors
- Carbon nanofilter and nanomembrane for gas and liquid separation



Language

Farsi, English

Honors and Awards

- An Award was received from oil minister in first innovation in petroleum industry, 2005
- Top research in oil minister, 2004, 2008, 2009, 2010
- Selected Researcher of 3rd festival of ranking on top nanotechnology figures of Iran, 2008.
- Youngest Researcher of 3rd festival of ranking on top nanotechnology figures of Iran, 2008
- Selected my PhD Thesis as a best in 3rd festival of ranking on top nanotechnology figures of Iran, 2008
- Top Researcher in Iran 2006, 2008
- Selected Researcher of 5th festival of ranking on top nanotechnology figures of Iran, 2010
- Selected Researcher of 6th festival of ranking on top nanotechnology figures of Iran, 2011
- Selected Top Researcher(1) of 1st festival of ranking on Award IRDA2011

Patents

- **Continuous process for producing carbon nanotube** ([European Patent Office, EP 1 837 306, B1 2007](#)), ([United States Patent and Trademark Office, US 2008/0274277](#)).
- **Carbon nanotube supported cobalt catalyst for converting synthesis gas into hydrocarbons** ([European Patent Office, EP 1 782 885, 2007](#)).
- **Catalyst based on MgO or alumina nonporous support and preparation of the same/A new catalyst based on nonporous supports** ([European Patent Office, EP 1 782 884, 2007](#)).
- **Hydrodesulfurization Nanocatalyst, its use and a process for its production** ([European Patent Office, EP08170413.2](#)), ([United States Patent and Trademark Office, US12629835](#)), ([Canada Patent Office, CA08170413.2](#)).
- **Hybrid nano sorbent** ([United States Patent and Trademark Office, US2011/0168018](#)).
- **Nano catalyst and process for removing sulfur compound from hydrocarbons** ([European Patent Office, Filled](#)).
- **Separation of metallic carbon nanotubes from smicoduction** ([United States Patent and Trademark Office, filled](#)).
- **Preparation of nanofilter for Removal of harmful component** ([United States Patent and Trademark Office, filled](#)).
- **Preparation of Carbon molecular sieves from Nut- Shell** ([Iranian Patent](#)



- [Office,30101, 2004\).](#)
- Synthesis of nanocatalyst based on MgO or alumina nonporous ([Iranian Patent Office,36377, 2006\).](#)
- Cobalt catalyst based on carbon nanotube for converting natural gas to hydrocarbon ([Iranian Patent Office,34767, 2006\).](#)
- Production of carbon nanotube with controlled pore size ([Iranian Patent Office,29903, 2004\).](#)
- Continuous Production of carbon nanotubes ([Iranian Patent Office, 2007\).](#)
- A new catalyst for synthesing carbon nanotubes ([Iranian Patent Office, 2007\).](#)
- Synthesis of V2O5 by Special Sol-Gel Method with Short Time ([Iranian Patent Office,46160, 2008\).](#)
- Synthesis of WS2fulleren-like ([Iranian Patent Office,40588, 2007\).](#)
- Continuous process for producing carbon nanotube ([Iranian Patent Office, 2009\).](#)
- Hydrodesulphurization Nanocatalyst,method of preparation and application([Iranian Patent Office,60697, 2009\).](#)
- Hybrid nanoadsorbent ([Iranian Patent Office,61501, 2009\).](#)
- Hydrodesulphurization nanocatalyst based on alumina nanorod/nanotube Nanocatalyst and process for sulfure removal ([Iranian Patent Office,66233, 2010\).](#)
- Separation of carbon nanotubes metallic from semiconducting ([Iranian Patent Office,67856, 2010\).](#)
- Nano-bio fuel of gasoil engine ([Iranian Patent Office,67896, 2010\).](#)
- Silver nano-bio fuel of gasoil engine ([Iranian Patent Office,67897, 2010\).](#)

Publications

Full papers in peer reviewed journals

E.Vashegani frahani, M.Ebrahimnejad, S.Pakseresht, **A.M.Rashidi**, "Evaluation of Adsorption Process Using Z5A and CMS for Separation of Nitrogen from Methane" [IJC &CE Journal, No. 21, 2002](#)

M.Abedinzadegan, A.Ahmadpour, M.Madyarfar, **A.M.Rashidi** "Poduction of active carbon by chemical activation", [Journal of engineering, ferdowse university, Mashhad, No-4, 2002.](#)

Abedinzadegan Abdi, M., Mahdiarfar, M., **Rashidi, A. M.**, Jalilian, A. A., Ahmadpour, A. and Mirhabibi, A. R., "Preparation of Carbon Molecular Sieves for Separation and Purification of Gases", [IRAN Petroleum, Issue No. 5, \(2002\).](#)

A.M. Rashidi, Y.Mortazavi, A.A. Khodadadi, M.M. Akbarnejad, M. Attarnejad, A. Ahmadpour "The Preparation of Bamboo Structured Carbon Nanotube by CVD of acetylene on Co-Mo/MCM-41 with the controlled porosity "[Journal of Chemistry and Chemical Engineering, Vol 25,no 3,2006](#)

Ahmadpour, A, Mahdiarfar, M., **Rashidi, A. M.** and Abedinzadegan Abdi, M., "Preparation of Carbon Molecular Sieve by Two-Step Pore Blocking Process of Activated Carbon" [Journal of School of Engineering, Ferdowsi University of Mashad, no2,18,\(2006\).](#)



A.M. Rashidi, M.M. Akbarnejad, A.A. Khodadadi, Y.Mortazavi, A.Ahmadpour, "Single-wall carbon nanotubes synthesized using organic additives to Co-Mo catalysts supported on nanoporous MgO" [Journal of nanotechnology,18,2007](#)

A.Amrollahi, A.A.Hamidi, A.M.Rashidi,"Preparation of MCM-41 nanofluids and the investigation of Brownian movement of Nanoparticles on the nanofluid conductivity" [International Journal of Nanoscience and Nanotechnology, Vol3, no1, 2007](#)

M. Namvar-Asl, M. Soltanieh, A. M.Rashidi, A. Irandoukht"Modeling and Preparation of Activated Carbon for Methane Storage: I) Modeling of Activated Carbon Characteristics with Neural Networks and Response Surface Method , [Energy Conversion and management, 49 ,2471–2477, 2007](#)

M. Namvar-Asl, M. Soltanieh, A. M.Rashidi" Modeling and Preparation of Activated Carbon for Methane Storage: II) Neural Networks Modeling and Experimental Studies of activated carbon preparation " [Energy Conversion and management, 49, 2478–2482, 2008](#)

Mostafavi,S.T, Mehrnia,M.R.,Rashidi,A.M,"Preparation of nanofilter from carbon nanotubes for application in virus removal from water , [Desalination,238,271-280,2009](#)

A Amrollahi, A AHamidi and A M Rashidi"The effects of temperature, volume fraction and vibration time on the thermo-physical properties of a carbon nanotube suspension (carbon nanofluid)" [Journal of Nanotechnology,19,315701, 2008](#)

M. Hemmati , G. H. Rahimi , A. B. Kaganj , S. Sepehri , A. M. Rashidi, "Rheological and Mechanical Characterization of Multi-Walled Carbon Nanotubes/Polypropylene Nanocomposites" [Journal of Macromolecular Science Part B: Physics, 47:1176–1187, 2008](#)

R.Habibi, J.Tofighi, A.M.Rashidi,"Shape and size -controlled synthesis of ZnO nanostructures by using novel templates" [Journal of Experimental Nanoscience,Vol. 4, No. 1, 21-34,2009](#)

A.B.Kaganj, R.Arasteh, A.M.Rashidi"Crystallization Behavior and Morphological Characteristics of Poly (propylene)/ Multi-walled Carbon nanotubes" [Journal of Experimental Nanoscience, Vol. 4, No. 1, 35–45,2009](#)

D. Parviz, M. Kazemini, A.M.Rashidi and Kh. Jafari Jozani "Synthesis and characterization of MoO₃ nanostructures by solution combustion method employing morphology and size control" [Journal of Nano particle Research, 12:1509-1521, 2010](#)

M.Alaei,A.M.Rashidi, A.Mahjoub, "Two Suitable Methods for the Preparation of Inorganic Fullerene-Like (IF) WS₂ Nanoparticles" [Iranian Journal of Chem.Chem.Eng.Volume 28, Number 2, 2009](#)

Z. Sadeghian, A. M. Rashidi "Synthesis optimization and characterization of multiwall carbon nanotubes produced by spray pyrolysis of hexane" [Materials Science and Technology, 2010Volume 26 .no.10,1191-1196](#)

A.Amrollahi, A.M.Rashidi,M.E.Mebodi," Conduction heat transfer characteristics and dispersion behavior of carbon nanofluids as function of different parameters" [Journal of Experimental Nanoscience,2009 Vol. 4, No. 4, 347 – 363](#)

M.E.Mebodi,M.Vafaiesafti,A.M.Rashidi,A.Amrollahi,M.Tabasi,H.S.Kalal," The role of different parameters on the stability ant thermal conductivity of carbon nanotube/water nanofluid" [International Communications in Heat and Mass Transfer 37 \(2010\) 319–323](#)

R.Lotfi,Y.Saboohi,A.M.Rashidi "Numerical study of forced convective heat transfer of nanofluids:comparison of different approaches" [Internrtional Communication in Heat and Mass Transfer,37\(2010\)74-78](#)



- M.Alaei, A.Mahjoub, **A.M.Rashidi**, " Effect of Suitable Surfactant on the Large Scale Preparation of WO₃ Nanorods for the Synthesis of WS₂ Nanoparticles " [J. Nanosci. Nanotechnol. 10, 5981-5985 \(2010\)](#)
- M.Alaei, A.Mahjoub, **A.M.Rashidi**, " Facile method for the preparation of the WS₂ Nanoparticles" [J. Nanosci. Nanotechnol. 10, 6128-6130 \(2010\)](#)
- H.Naeimi, A.Mohajeri, L.Moradi, **A.M.Rashidi**, "Efficient and facile one pot carboxylation of multiwalled carbon nanotubes by using oxidation with ozone under mild condition" [Applied Surface Science, 256 \(2009\) 631-635](#)
- M.E.Mebodi, M.Vafaieasfti, **A.M.Rashidi**, A.Amrollahi, M.Tabasi, H.S.Kalal, "Simple method for thermal conductivity of nanofluids using resistance model approach" [International Communications in Heat and Mass Transfer 37 \(2010\) 555-559](#)
- S.Safari, **A.M.Rashidi**, H.R.Agabozorg "Increasing the Octane Number of Gasoline Using Functionalized Carbon Nanotubes" [Applied Surface Science 256 \(2010\) 3472-3477](#)
- R. Arasteh, M. Masoumi, **A.M. Rashidi**, L.Moradi, V. Samimi and S.T. Mostafavi "Adsorption of 2-Nitrophenol by Multi Wall Carbon Nanotubes from Aqueous Solutions " [Applied Surface Science, 256 \(2010\) 4447-4455](#)
- Fereshteh Rashidi, Ali Nemati Kharat, **Ali Morad Rashidi**, Enrique Lima, Victor Lara and Jaime S. Valente " Fractal Geometry Approach to Describe Mesostructured Boehmite and Gamma-/Alumina Nanorods" [European Journal of inorganic chemistry, 10\(2010\), 1544-1551.](#)
- A.M.Rashidi**, A.Nouralishahi, A.A.Khodadadi, Y.Mortazavi, A.Karimi, K.Kashefi "Modification of Single Wall Carbon Nanotubes (SWNT) for Hydrogen Storage" [International Journal of Hydrogen Energy, 35 \(2010\) 9489 -9495](#)
- A.Amrollahi, **A.M.Rashidi**, M.E.Mebodi, R.Lotfi, K.Kashefi, "Convection Heat Transfer of functionalized MWNTs in Aqueous fluids in laminar and turbulent flow at the entrance region" [International Journal of Heat and Mass Transfer, 37 \(2010\) 717-723](#)
- M.E.Mebodi, M.Vafaieasfti, **A.M.Rashidi**, A.Amrollahi, M.Tabasi, H.S.Kalal, " An Estimation for velocity and temperature profiles of nanofluids in fully developed turbulent flow conditions " [International Journal of Heat and Mass Transfer, 37 \(2010\) 895-900](#)
- Ali Nakhaei Pour, **Ali Morad Rashidi**, Kherolah Jafari Jozani, Ali Mohajeri, Payman Khorami " Support effects on the chemical property and catalytic activity of Co-Mo HDS catalyst in sulfur recovery" [Journal of Natural Gas Chemistry 19\(2010\) 91-95](#)
- A.M.Rashidi**, A.Karimi, H.R.Bozorgzadeh, K.Kashefi and M.Zare "Synthesis of SWNTs over Co-Mo/MgO Nanoporous and using as a catalyst support for selective hydrogenation of syngas to hydrocarbon" [Journal of Natural Gas Chemistry, 19\(2010\) 548-551](#)
- M.Borghei, R.Karimzadeh, **A.M.Rashidi**, N.Izadi, " Kinetics of Methane Decomposition to CO_x-free Hydrogen and Carbon Nanofiber over Ni-Cu/MgO Catalyst" [International Journal of Hydrogen Energy, 35\(2010\) 9479-9488](#)
- Tahmineh Forati, Aliasghar Behnamghader, **Alimorad Rashidi**, Afsaneh Gozalian, Dionysia Ntentopolou, Mahnaz Namvarasl, Leila Moradi "Effect of functionalized carbon nanotubes on the synthesis of hydroxyapatite nanoparticles" [J. Nanosci. Nanotechnol. 11, 5423-5428 \(2011\)](#)
- M.E.Mebodi, M.Vafaieasfti, **A.M.Rashidi**, A.Amrollahi, M.Tabasi, H.S.Kalal, " A model for thermal conductivity of nanofluids " [Materials Chemistry and Physics 123 \(2010\) 639-643](#)
- Rozita Habibi, **Ali Morad Rashidi**, Jafar Towfighi Daryan, Seyed Ali Mohammad Alizadeh "Study of the rod like and spherical nano ZnO morphology on H₂S removal from natural gas" [Applied Surface Science 257 \(2010\) 434-439](#)



Nosrat Izadi, Alimorad Rashidi, Maryam Borghei, Ramin Karimzadeh, Atefe Tofigh "Synthesis of carbon nanofibers over nanoporous Ni-MgO catalyst: Influence of the bimetallic Ni-(Cu, Co, Mo) MgO catalysts" [Journal of Experimental Nanoscience, 6,6, 2011](#)

H.Naeimi, A.Mohajeri, L.Moradi, A.M.Rashidi, "Solubilization of Multi walled carbon nanotubes under a Facile and mild condition" [J. Nanosci. Nanotechnol 11 \(2011\) 1- 4](#)
M. Bandarian, A. Shojaei, A. M. Rashidi, " Thermal, mechanical and acoustic damping properties of flexible open-cell polyurethane/multi-walled carbon nanotube foam: effect of surface functionality of nanotube" [Journal of polymer international ,2010, 12 NOV 2010, DOI: 10.1002/pi.2971](#)

Ali morad rashidi, Ehsaneh Fakhmousavi, Giti Abolhamd, Masoud Zare, "Parametric study for the growth of single-walled carbon nanotubes over Co-Mo/MgO in fluidized bed reactor by CCVD method" [Iranian Chemistry and chemical engineering Journal, 29,2010](#)

Majid Masoumi, Mohammad Reza Mehrnia , Mohammad Mehdi Montazer-Rahmati and Ali Morad Rashidi "Templated growth of carbon nanotubes on nickel loaded mesoporous MCM-41 and MCM-48 molecular sieves" [International Journal of Nanoscience and Nanotechnology, 6,2,2010 p.88-96](#)

Mehdi Jahangiri; Seyed Jamaledin Shahtaheri; Javad Adl; Alimorad Rashidi; Hossein Kakooei; Abbas Rahimi Forushani; Mohammad Reza Ganjali; Amir Ghorbanali "The adsorption of benzene, toluene and xylene (BTX) on the carbon nanostructures: the study of different parameters" [Fresen. Environ. Bull, 1,4 2011](#)

Zeinab Talaei, Ali Reza Mahjoub, Ali morad Rashidi, Azadeh Amrollahi, Majid Emami Meibodi, " The effect of functionalized group concentration on the stability and thermal conductivity of carbon nanotube fluid as heat transfer media" [International Communications in Heat and Mass Transfer 38 \(2011\) 513–517](#)

Aida Nasiri, Mojtaba Shariaty-Niasar, Alimorad Rashidi, Azadeh Amrollahi and Ramin Khodafarinb " Effect of Dispersion Method on Thermal Conductivity and Stability of Nanofluid" [Experimental Thermal and Fluid Science 35 \(2011\) 717–723](#)

H. Ghorbani, A.M.Rashidi, S. Rastegari and S. Mirdamadi, M. Alaei " Mass production of Multi-Wall carbon nanotubes by Metal dusting process with high yield" [Materials Research Bulletin 46 \(2011\) 716–721](#)

R.Lotfi, A. Anvari, A.M.Rashidi, S. Satari "Experimental Research on Heat Transfer of Water in Tubes with Conical Ring Inserts in transient Regime" [International Communications in Heat and Mass Transfer 38 \(2011\) 668–671](#)

N.Izadi, A.M.Rashidi, B.Amini, M.R.Masoudi "Growth Of Single-Walled Carbon Nanotubes On A Co-Mo-MgO Supported Catalyst By The CVD Of Methane In A Fixed Bed Reactor: Model Setting and Parameter Estimation" [Solid State Sciences 13\(2011\)1242-1250](#)

H. Bazzazzadegan, M. Kazemini, A.M. Rashidi "A high performance multi-walled carbon nanotube-supported palladium catalyst in selective hydrogenation of acetylene-ethylene mixtures" [Applied Catalysis A: General, 339\(2011\)184-190](#)

Mostafa Keshavarz Moraveji , Fatemeh Sadat Sokout, Alimorad Rashidi, "CFD modeling and experimental study of multi-walled carbon nanotubes production by fluidized bed catalytic chemical vapor deposition" [International Communications in Heat and Mass Transfer, 38\(2011\), 984-989](#)

Ali Mohamadizadeh, Jafar Towfighi, Alimorad Rashidi, Mehrdad Manteghian, Ali Mohajeri and Rohollah Arasteh "Nanoclays as nano adsorbent for oxidation of H₂S into elemental sulfur" [Korean Journal of Chemical Engineering, DOI: 10.1007/s11814-010-0486,2011](#)



Alimorad Rashidi, Roghayeh Lotfi, Ehsaneh Fakhrmosavi, Masoud Zare "Production of Single-Walled Carbon Nanotubes from Methane over Co-Mo/MgO Nanocatalyst: A Comparative Study of Fixed and Fluidized Bed Reactors" [Journal of Natural Gas Chemistry, 2011, V20\(4\): 372-376](#)

Ali Mohamadalizadeh , Jafar Towfighi , Alimorad Rashidi , Ali Mohajeri , and Mohamadmehdi Golkar "Modification of Carbon nanotubes for H₂S sorption" [Ind. Eng. Chem. Res., 2011, 50 \(13\), pp 8050–8057](#)

Nosrat Izadi, Ali Morad Rashidi, Samira Golzardi, Zeinab Talaei, Ali Reza Mahjoub "Hydrogen Sulfide sensing properties of Multi walled carbon nanotubes" [Ceramic International ,Accepted 2011](#)

D. Parviz, M. Kazemeinia, A.M. Rashidi, Kh. Jafari Josani , "Naphtha hydrodesulfurization over micro and nanostructure MoO₃ catalysts" [Scientia Iranica, c \(2011\)18\(3\),479-485](#)

Ali Morad Rashidi, Roghaye Lotfi, Amideddin Nouralishahi, Mohammad Ali Khodaghohi, Masoud Zare, Faeghe Eslamipour " Nanoporous Carbons as Promising Novel Methane Adsorbents for Adsorbed Natural Gas Technology" [Journal of Natural Gas Chemistry, Accepted 2011](#)

Aida Nasiri, Mojtaba Shariaty-Niasar, Alimorad Rashidi, Ramin Khodafarin "Effect of CNT structures on thermal conductivity and stability of nanofluid " [International journal of Heat and Mass Transfer, accepted 2011](#)

R. Lotfi , A.M. Rashidi, Azadeh Amrollahi " Experimental study on the heat transfer enhancement of MWNT-water nanofluid in a shell and tube heat exchanger" [International Communications in Heat and Mass Transfer, Accepted 2011](#)

Hamid Reza Ghafarian, Mahboobeh Saiedi, Mohammad Ali Sayyadnejad, Ali Morad Rashidi "Synthesis of ZNO nanoparticles by spray pyrolysis method, [Journal of Chemistry and Chemical Engineering, Vol 30, no 1, 2011](#)

Bijan Bina, Hamidreza Pourzamani, Ali Morad Rashidi, and Mohammad Mehdi Amin " Ethylbenzene removal by carbon nanotubes from aqueous solution" [Journal of Environmental and Public Health, Accepted 2012](#)

M. Alaei, A. Mahjoub, A.M. Rashidi "Preparation of Different WO₃ Nanostructures and Comparison of Their Ability for Congo Red Photo Degradation" [Iran. J. Chem. & Chem. Eng, Vol. 31, 2012](#)

M. Alaei, A. Mahjoub, A.M. Rashidi "Effect of WO₃ nano particles on Congo Red and rod amine Photo Degradation" [Iran. J. Chem. & Chem. Eng, Vol. 31, 2012](#)

International Conference Proceedings and Oral Presentations:

A.A. Khodadadi, Y. Mortazavi, A.M. Rashidi "Effect of CO₂ and H₂O on oxidative coupling of methane by Li/MgO and Ce/Li/MgO", Proceeding of fifth international congress of chemical engineering, Shiraz, Iran, 2000.

A. Rashidi, M. Akbarnejad "carbon nanotube, synthesis, structure, characterization and application", first seminar of nanotechnology, March 2002, Tehran, Iran

A. Ahmadpour, M. Mahdyarfar, M. Abedinzadegan Abdi, A.M. Rashidi, A. Jalilian "New Carbon Molecular



Sieves for Air and Hydrocarbon Separation” The International Conference on Carbon, Beijing, China, 2002.

A.R.Mirhabibi, M.Mahdyarfar, M.AbedinzadeganAbdi, **A.M.Rashidi**, A.Jalilian, Ragha babazadeh, ”Micro-Structure Evolution of a Carbon Molecular Sieve”, The International Conference on Carbon, Beijing, China, 2002.

T.Mohammadi, M.AbedinzadeganAbdi, a.parvinpor, **A.M.Rashidi**”Adsorption Selectivity of CH₄ and C₂H₄ on Active Carbon and Carbon Molecular Sieve” Proceeding of seventh international congress of chemical engineering, Tehran, Iran, 2002.

M.AbedinzadeganAbdi, M.Mahdyarfar, **A.M.Rashidi**, A.Ahmadpour “Poduction of active carbon from row materials” Proceeding of seventh international congress of chemical engineering, Tehran, Iran, 2002.

A.Jalilian, M.AbedinzadeganAbdi, M.Mahdyarfar, **A.M.Rashidi**, A.Ahmadpour, A.R.Mirhabibi “preparation of Carbon Molecular Sieve from Nut Shells for Separation of Nitrogen from Oxygen” 12th International Oil, Gas and Petrochemical Congress, 2003

A.M. Rashidi, M.M. Akbarnejad, A. Ahmadpour, A.A. Khodadadi, Y.Mortazavi, M. Mahdyarfar, H.R. Ghafarian” Preparation of SWNTs by CVD method over Co-Mo/MgO catalyst using different additives” The International Conference on Carbon, Oviedo, Spain, 2003.

A.M. Rashidi, M.M. Akbarnejad, A. Ahmadpour, A.A. Khodadadi, Y.Mortazavi, H.R. Ghafarian, F.Tayari “Synthesis of Carbon Nanotube by Catalytic Chemical Vapor deposition” Proceeding of eighth international congress of chemical engineering, mashhad, Iran, 2003.

A.M.Rashidi, M. M.Akbarnejad “carbonnanotube, synthesis, structure, charactrization and application”, first seminar of nanotechnology, March 2002, Tehran, Iran

A.M. Rashidi, M.M. Akbarnejad, A.A. Khodadadi, Y.Mortazavi, Kh.Nazari, M. Attarnejad” Synthesis of carbon nanotube with the Controlled Porosity using Co-Mo/MCM-41 as a template " 10-15 october 2004, nanotech2004, batz sur mer frence

A.M. Rashidi, A.A. Khodadadi, Y.Mortazavi, M.M. Akbarnejad “Synthesis of carbon nanotube on Co-Mo/MgO using nanoporousMgO” International conference on science and application of carbon nanotubes 19-24 July 2004, Mexico

A.M. Rashidi, M.M. Akbarnejad, A.A. Khodadadi, Y.Mortazavi, M. A.Attarnejad "Porosity control of carbon nanotubes using Co-Mo/MCM-41 as atemplate" International conference on science and application of carbon nanotubes 19-24 July 2004, Mexico



M.M.Akbarnejad, N.Manteghian, E.Ahmadvand and **A.M.Rashidi** "Fluidized-bed CVD synthesis of carbon nanotube on Co-Mo/MgO" International conference on science and application of carbon nanotubes 19-24 July 2004, Mexico

A.M.Rashidi, F.Eslamipour, "Hydrogen storage in carbon nanotube" Proceeding of ninth international congress of chemical engineering, Tehran, Iran, 2004

M.M.Akbarnejad, **A.M.Rashidi**, G.Abolhamd.E.Fakhr mosavi "Production of clean single-walled carbon nanotube by floating catalyst system" International conference on science and application of carbon nanotubes, 26 June-1 July 2005, Gothenburg, Sweden

E.Fakhr mosavi, M.M.Akbarnejad, G.Abolhamd. **A.M.Rashidi**, " Parameters optimization of carbon nanotube growth by CVD method in fluidized bed reactor "International conference on science and application of carbon nanotubes 26 June-1 July 2005, Gothenburg, Sweden

Rashidi, A.M., Akbarnejad, M.M., Mortazavi, Y., Khodadadi, A.A., Attarnejad M., and Ahmadpour, A., "The Preparation of Bamboo Structured Carbon Nanotube by CVD of Acetylene on Co-Mo/MCM-41 with the Controlled Porosity", 1st Iran-Russia Joint Seminar & Workshop on Nanotechnology (IRN 2005), Tehran, (2005).

M.M.Akbarnejad, N.Manteghian, E.Ahmadvand and **A.M.Rashidi**, XRD &SEM studies of the effect of acid washing on carbon nanotubes structure, 2003, Tehran.Iran

M.Akbarnejad, **A.M.Rashidi** and E.Fakhrmousavi, "Purification and opening of SWNT for hydrogen storage" International conference on science and application of carbon nanotubes, Nagano, Japan, July 2006

A.M. Rashidi, M.M. Akbarnejad, A.A. Khodadadi, Y.Mortazavi, " Mass production of Single-walled carbon nanotubes using nanoporous catalyst by CVD method" International conference on science and application of carbon nanotubes, nagano, Japan, July 2006

A.M. Rashidi, E.Fakhrmousavi M.M. Akbarnejad, and G.abolhamd " Production of single-walled carbon nanotubes over Co-Mo/MgO in fluidized bed reactor by CVD method The International Conference on Carbon, Alaska, Scotland, 2006.

Mahjoub, A.R, **Rashidi, A.M.**, Alaei, M, "Inorganin fullerene-like material as additive to lubricants, ICN 2007, Tehran, Iran

Mostafavi, S.T, Mehrnia, M.R., **Rashidi, A.M, Sadeghian, Z.**, "Fabrication of Carbon nanofilter for



separation of light and Heavy Oil, ICN 2007, Tehran, Iran

A.Amrollahi,A.A.Hamidi,**A.M.Rashidi** ,preparation of nanotubes nanofluid and determination of thermophysical properties, Proceeding of eleventh international congress of chemical engineering, 2006,Tehran, Iran,

M. Namvar-Asl, M. Soltanieh, **A. M.Rashidi**, A. Irandoukht , Modeling and Preparation of Activated Carbon for Methane Storage: I) Modeling of Activated Carbon Characteristics with Neural Networks and Response Surface Method, CESEP'07 Krakow 2 September, 2007.

S.Ajami,**A.M.Rashidi**,A.Mohajeri,M.Zare "Preparation of Carbon Molecular Sieve from Nut Shell for Separation Nitrogen from Air with High Selectivity and low cost" CESEP'07 Krakow 2 September, 2007

M. Namvar-Asl, M. Soltanieh, **A. Rashidi**" Modeling and Preparation of Activated Carbon for Methane Storage: II) Neural Networks Modeling and Experimental Studies of activated carbon preparation "CESEP'07 Krakow 2 September, 2007

Ali Morad Rashidi, Nosrat Ezadi, Bahman Amini Horri, "Kinetics Study on the SWNTs Synthesis by theCVD of Methane on a Nanoporous CoMo/MgO Supported Catalyst"Carbon 2008 Conference,Nagasa, Japan,julay12-15,2008

M.Bayat, Ghafari, **A.M.Rashidi**, " Carbon nanotubes as a electord for electro synthesis" International conference on Ultra fine grain and nanostructure materialsn, novamber, Tehran2008-12-18

M.Alaei, A.Mahjoub, **A.M.Radhidi**, " Large scale method for preparation of WO₃ nanorods as precursor for the synthesis of WS₂"3Th conference on nanotechnology, shiraz, Iran, 2007

H.R.Ghafarian, M.A.Sayadnejad, **A.M.Rashidi**" A convenient system for preparation of nano zinc oxide by water solution combustion method" KISH island IRAN, 2006

F.Rashidi, A.Nemati, **A.M.Rashidi**" Gamma alumina nanotube assisted by surfactant"IC4N-Halkidiki, Greece, June 16-18, 2008

M.Alaei, **A.M.Rashidi**, A.Majoub,"Preparation and application of mixed MoO₃/MoS₂ nanopowders as phopocatalyst in phenol degradation", IC4N-Halkidiki, Greece, June 16-18, 2008

M.Alaei, A.Majoub, **A.M.Rashidi**, " Facile Method for preparation of WS₂ Nanospheres" IC4N-Halkidiki, Greece, June 16-18, 2008



M.Alaei, **A.M.Rashidi**, A.Majoub, "Preparation of carbon nanotube supported W-based HDS catalysts with superior activity in relation to the traditional Mo-based HDS catalyst " ANM2008, TEMA-NRD, University of Aveiro, Portugal, June 22-24 2008

M.Alaei, **A.M.Rashidi**, A.Majoub "High Loading of WS₂ nanoparticles inside SBA-15, promotion with ink and performance in HDS" ANM2008, TEMA-NRD, University of Aveiro, Portugal, June 22-24 2008

M.Alaei, A.Majoub, **A.M.Rashidi** "Preparation of SBA-15 and loading with WO₃ nanoparticles" ICNN2008, 28-30 October, Tabriz, Iran

A.Majoub, **A.M.Rashidi**, M.Alaei "Facial large scale and safe method for synthesis of WS₂ nanoparticles from WO₃ nanorods, The 2nd Conference on Nanostructures, 11-14, 2008, Kish Island, Iran

D.Parviz, M.Kazemani, **A.M.Rashidi**, KH.Jafari Jozani, P.Khorami" Synthesis and characterization of MoO₃ Nanoparticles with controlling morphology by solution method" ANM2008, TEMA-NRD, University of Aveiro, Portugal, June 22-24 2008

R.Habibi, J.Tofighi, **A.M.Rashidi**, A.Mohammad alizadeh "Shape-controlled synthesis of ZNO nanostructures by tuning growth parameters ANM2008, TEMA-NRD, University of Aveiro, Portugal, June 22-24 2008.

A.M. Rashidi, A.A. Khodadadi, Y.Mortazavi" Synthesis of SWNTs over MgO nanoporous and using as a catalyst support for selective hydrogenation of syngas to hydrocarbon "CARBOCAT-III , NOVEMBER 9-12, Berlin, Germany

N. Ezadi, **A.M. Rashidi**, M. Borghei, R. Karimzadeh, A.Tofigh, " Synthesis of carbon nanofibers over nanoporous Ni—MgO supported catalyst : Influence of the active metals (Co, Cu, Fe, Mo) and Al-Mg and Ce-Mg type supports "CARBOCAT-III , NOVEMBER 9-12, Berlin, Germany

A.M.Rashidi, E. Fakhre mousavi "Comparison of fixed bed and fluidized bed reactor for production of SWNTs" ICNN2007, TEHRAN, Iran, 2007

M.Alaei, A.Mahjoub, **A.M.Rashidi** "Preparation of WO₃ nanostructures and effect of structures on photo catalyst application" 6th world congress on oxidation catalyst", Lille-France, July 5-10, 2009

Z.Talaei, A.Mahjoub, **A.M.Rashidi**, "Uniformly dispersed platinum nanoparticles loading on carbon nanotube without using reducing agents" 11th Iranian Inorganic Chemistry Conference, 13-14 May 2009, Isfahan, Iran

M.Borghei, R.Karimzadeh, N.Izadi, **A.M.Rashidi**, " Co-free hydrogen production via decomposition of methane over CO-MO/MgO catalyst" The first national conference on hydrogen and fuel cell , 20-21



January,2009, Tehran,Iran

A.M.Rashidi,A.A.Khodadadi,Y.Mortazavi,M.M.Akbarnejad," Hydrogen storage in single walled carbon nanotubes" The first national conference on hydrogen and fuel cell , 20-21 January,2009, Tehran,Iran

M.Borghei,R.Karimzadeh, **A.M.Rahidi** "Development of natural gas decomposition, New method for production of fuel for fuel cell car " The first national conference on hydrogen and fuel cell , 20-21 January,2009, Tehran,Iran

Zahra Sadeghian,**Ali morad rashidi**,"Separation of heavy and light hydrocarbons by carbon nanotube membranes" Nanotech Europe 2009, 30 Sep 2009

Tahmineh Forati, Aliasghar Behnamghader, **Alimorad Rashidi**, Afsaneh Gozalian" Effect of carbon nanotubes on the synthesis of hydroxyapatite nanoparticles" 3rd International Meeting on Developments in Materials, Processes and Applications of Emerging Technologies (MPA), 23 Jul 2009

M.Alaei, A.Majoub, **A.M.Rashidi** "Comparison of two different WO₃ nanostructures photo catalytic property" 3rd Conference on Nanostructures 10 to 12 March 2010, Kish ,Iran

A.M Rashidi - S Golezardi - N Izadi ,"Dispersion study of multiwalled carbon nanotubes(MWNTs) in organic media and preparation of uniform film of MWNTs on Alumina substrate by using spin coating technique"3rd Conference on Nanostructures 10 to 12 March 2010, Kish ,Iran

Hossein Naeimi - Leila Moradi - Ali Mohajeri - **Ali Morad Rashidi** "Efficient and Convenient Solubilization of Multiwalled Carbon Nanotubes"3rd Conference on Nanostructures 10 to 12 March 2010, Kish ,Iran

Mahshad Alaei - Alireza Mahjoub - **Alimorad Rashidi**"Facile method for loading of WO₃ inside SBA-15 as precursor for the preparation of suitableHDS catalyst"3rd Conference on Nanostructures 10 to 12 March 2010, Kish ,Iran

A Mohajeri - L Moradi - H Naeimi - **A.M Rashidi** "Mild and Efficient Oxidation of Multi-walled Carbon Nanotubes with Ozone in DMF"3rd Conference on Nanostructures 10 to 12 March 2010, Kish ,Iran

A rashidi - z shamsi - m ahangar davoodi - h bargozin"Adsorbed natural gas technology for gas storage: review"14th International Oil, Gas and Petrochemical Congress,Tehran,Iran, May 2010

Alimorad rashidi - mahshad alaei - alireza mahjoub"Effect of WO₃ nanoparticles sizes on Congo Red (azo dye) and Rhodamine B (cationic triaryl methane dye) photo degradation"14th International Oil, Gas and Petrochemical Congress,Tehran,Iran, May 2010

A.R Anvari - S Sattari, - **A.M Rashidi**"Experimental study on heat transfer of water in tubes with Vshape nozzle and helical-tape inserts in transient regime"2nd International Conference on Heat Exchange Application in Oil and Energy Industries ,2010

f mohammadzadeh - m jahanshahi - **a.m rashidi** - m seyfi"Hydrogen sulphide gas sensors based on multi walled carbon nanotube"14th International Oil, Gas and Petrochemical Congress,Tehran,Iran, May 2010

M Zahedi - M . R Sarmasti Emami - **A . M Rashidi** - R Rahimi-"Kinetically Controlled O₂ - N₂ Adsorption for Air in a Carbon Molecular Sieve"6th International Congress on Chemical Engineering"kish Iran 2009

ali roostayi - hasan bargozin - **alimorad rashidi**-Modified Magnesium Oxide Nanoparticles for Oil and Gas Industry Usage"14th International Oil, Gas and Petrochemical Congress,Tehran,Iran, May 2010

h Ghorbani - S Rastegari - S Mirdamadi - **A Rashidi**"Multi-wall carbon nanotubes formation by using Metal Dusting process"2nd Nano Materials and Nano Technology Conference"iran ,2010



Skills

- Good Experiences for mass production of nanostructure materials, specially metal oxide and carbon nanostructures
- Good Experiences in work with Atomic Force Microscope
- Good Experiences in Pilot Plant and demo plant study

Teaching Experience:

- Carbon nanostructure and its application
- Nanocatalyst and nanostructures
- Application of nanotechnology in oil industry, Petrobras Brezil, SEP, 2008

Technology development

- Mass production of Carbon nanotubes
- Mass production of metal oxide nanostructures