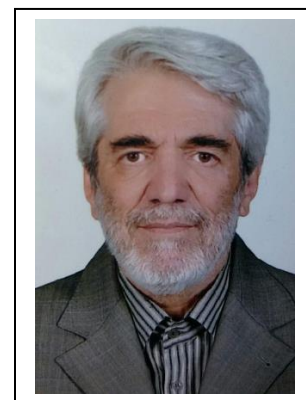


# Curriculum Vitae

Professor Seyyed Javad SeyyedZadeh Sabounchei  
Academic Member of Buali-SinaUniversity  
Full Professor in Inorganic Chemistry  
Department of Chemistry  
Buali-SinaUniversity  
Shahid Fahmideh Boulevard  
[jsabounchei@yahoo.co.uk](mailto:jsabounchei@yahoo.co.uk)



## QUALIFICATIONS:

**2000**            Sabbatical Work  
*University of Liverpool (8 months, U.K)*

**1987**            Ph.D. in Inorganic Chemistry  
*University of Liverpool, U.K*

**1976**            M.Sc. in Inorganic Chemistry  
*University of Kent at Canterbury, U.K*

**1972**            Bs. Bachelor in Chemistry  
*University of Tabriz Iran*

# **Research Experience:**

## **1-Thesis:**

**Ph.D. Thesis:** CARBIDE AND NITRIDE CLUSTERS

**M.Sc. Thesis:** FOURIER TRANSFORM  $^{195}\text{Pt}$  NMR STUDIES

## **2- Research Interests:**

1. Cluster chemistry of transition metals
2. Investigation of complexes of transition metals specially with N.M.R. spectroscopies.
3. Applications of Pt and Pd and Rh complexes of hydantoin and ylides as anticancer agents and catalysts.

## **3- Offered courses:**

For Undergraduate Students:

- Inorganic Chemistry 1,2
- General Chemistry 1 & 2
- Spectroscopy

For M. Sc. Students:

- Advanced Inorganic chemistry

- Molecular spectroscopies 1
- Mechanism, Thermodynamic and kinetic in Inorganic reactions
- Inorganic Physical and chemistry

For Ph. D. Students:

- Molecular spectroscopies 2
- NMR and X-Ray studies on Cluster chemistry

## 4-Recent Publications

[1] Seyyed Javad Sabounchei · Alireza Dadrass · Mojtaba Jafarzadeh · Sadegh Salehzadeh · Hamid Reza Khavasi; *Synthesis of a new carbonyloxymethylenetriparatolyphosphorane ylide and study of its reaction with mercury(II) halides: Spectral and structural characterization*; 2007 · *Journal of Organometallic Chemistry*

[2] Seyyed Javad Sabounchei · Parisa Shahriary · Zabiholla Bolboli Nojini · Hamid Reza Khavasi · Cengiz Arici · Hakan Dal; *Synthesis of New Phosphorus Ylides: Spectroscopic and X-ray Structural Studies*; 2010 · *Heteroatom Chemistry*

[3] Seyyed Javad Sabounchei · Fateme Akhlaghi Bagherjeri · Zeinab Mozafari · Colette Boskovic · Robert W Gable · Roya Karamian · Mostafa Asadbegy; *Synthesis and characterization of novel simultaneous C and O-coordinated and nitrate-bridged complexes of silver(I) with carbonyl-stabilized sulfonium ylides and their antibacterial activities*; 2013 · *Dalton Transactions*

[4] Seyyed Javad Sabounchei · *Mohsen Ahmadi*; *An efficient protocol for copper- and amine-free Sonogashira reactions catalyzed by mononuclear palladacycle complexes containing bidentate phosphine ligands*; 2013 · *Catalysis Communications*

[5] Seyyed Javad Sabounchei · Mahbubeh Pourshahbaz · Mohsen Ahmadi · Ali Hashemi · Hamid Reza Khavasi; *New dimeric phosphine ylide copper (I) complexes: Synthesis,*

*coordination behavior, and application in Suzuki cross-coupling reactions*; 2013 · *Inorganic Chemistry Communications*

[6] Seyyed Javad Sabounchei · Parisa Shahriary · Sadegh Salehzadeh · Yasin Gholiee · Davood Nematollahi · Abdolkarim Chehregani · Amene Amani; ***Gold(III) complexes of 5-methyl-5-(pyridyl)-2,4-imidazolinedione: synthesis, physicochemical, theoretical, antibacterial, and cytotoxicity investigation***; 2014 · *New Journal of Chemistry*

[7] Seyyed Javad Sabounchei · Mohsen Ahmadi · Mohammad Panahimehr · Fateme Akhlaghi Bagherjeri · Zahra Nasri; ***Phosphine mono- and bis-ylide palladacycles as homogeneous molecular precatalysts: Simple and efficient protocol greatly facilitate Suzuki and Heck coupling reactions***; 2014 · *Journal of Molecular Catalysis A Chemical*

[8] Seyyed Javad Sabounchei · Ali Hashemi; ***Functionalized  $\alpha$ -keto stabilized sulfonium ylides as highly active ligand precursors for palladium catalyzed Suzuki–Miyaura cross-couplings***; 2014 · *Inorganic Chemistry Communications*

[9] Seyyed Javad Sabounchei · Ali Hashemi; ***Ylides: Synthesis, Reactions and Applications***; 2015. *Advances in Chemistry Research; Chapter of book from NOVA publisher in USA.*

[10] SEYYED JAVAD SABOUNCHEI · MARJAN HOSSEINZADEH; ***C(sp<sup>2</sup>)-C(sp<sup>2</sup>) cross coupling reaction catalyzed by a palladacycle phosphine complex: A simple and sustainable protocol in aqueous media***; 2015 · *Journal of Chemical Sciences*

[11] Seyyed Javad Sabounchei,\* Marjan Hosseinzadeh, Ali Hashemi, Sadegh Salehzadeh and Farahnaz Maleki ***“P,C-Chelation versus P,P-coordination of unsymmetrical phosphorus ylides in palladacyclopropa[60]fullerene complexes; synthetic, spectroscopic, and theoretical studies”***; 2016; *Dalton Transactions*, 45, 13899–13906 | 13899.

[12] S. J. Sabounchei, M. Ahmadianpoor, A. Yousefi, A. Hashemi, M. Bayat, A. Sedghi, F. Akhlaghi Bagherjeri, R. W. Gable ***“New Pd(II) Complexes of Sulfur Ylide; Synthesis, X-ray Characterization, Theoretical Study and Catalytic Activity toward Mizoroki-Heck Reaction”*** *RSC Advances*; 2016.

More than **140** publications and publications in progress in international journals as follow ;

1	<i>Journal of Organometallic Chemistry</i> Volume 142, Issue 3, 1977, Pages 413–421	Oxidative addition reactions of [Pt(CN) <sub>4</sub> ] <sup>2-</sup> ; A <sup>13</sup> C and <sup>195</sup> Pt NMR study
2	<i>Bulletion of hem.Soc.of Japan</i> 63, 3019-3021 (1990)	Soild State Multinuclear NMR Studies on M <sub>4</sub> (CO) <sub>12</sub> (M=Co,Rh)

3	<i>J. Chem. Soc., Dalton Trans., 1994, 513-520</i>	Phosphine-substituted trigonal-prismatic and octahedral clusters
4	<i>J. Chem. Soc., Dalton Trans., 1994, 333-337</i>	Adducts of trigonal-prismatic and octahedral metal clusters containing interstitial atoms (nitrogen or carbon) with $[\text{Au}(\text{PPh}_3)]^+$
5	<i>Journal of Science 1995 of University Azzahra</i>	Preparation and Characterisation of oxidative addition Reaction
6	<i>J. Chem and chem. Eng Iran . vol .43,1998 ,2NO</i>	Multinuclear Variable Temperature NMR Studies on Cyanide Water and Hydroxylgroup Scrambling on Halogenation of .....
7	<i>Oriental Journal of Chemistry Vol 15(1) , 49-51 (1999)</i>	Halogen Scrambling in Pt (II) Substitution Reaction
8	<i>Oriental Journal of Chemistry Vol 15(2) ,261-266 (1999)</i>	Steric of Tricyclohexylphosphine Ligand in Preparation of Dinuclear Pt (II) Complexes
9	<i>Synth.React.Inorg.Met.-Org.Chem .30(8) ,1535-1545 (2000)</i>	Synthesis and Reactivity of unsymmetrical Schiff Base Ligand Towards .....
10	<i>Acta.Crystallographi Section c.200 ,c56</i>	<i>cis</i> -Dichlorobis(triphenylphosphite- <i>P</i> )palladium(II)
11	<i>Ultra Science, vol. 12(1) , 2000 34-38</i>	Isotope shift of hydro complexes of pt (II) in $^{195}\text{Pt}$ spectra
12	<i>Asian Journal of Chemistry Vol. 12, No.2 (2000), 580-587</i>	Halogen Scrambling in Pt(II) Substitution Reaction
13	<i>J.Cluster Science vol .12,NO .1 , 2001</i>	1D and 2D NMR Studies on $[\text{Rh}_6\text{C}(\text{CO})_{14}(\text{PPh}_3)]^2$
14	<i>Ceramics-silikaty 49 (2) 138-141(2005)</i>	PREPARATION OF $\gamma$ -ALUMINA FROM ALUMINUM AMINOALKOXIDES
15	<i>Asian Journal of Chemistry Vol. 17, No.2 (2005), 1013-1016</i>	A Facile synthesis of stable Heterocyclic phosphorus ylides
16	<i>Asian Journal of Chemistry Vol. 13, No. 3-4 (2001), 1011-1015</i>	The Crystal Structure of <i>cis</i> -Diboromethoxytriphenyl phosphite platinum(II)
17	<i>Helvetica Chimica Acta Vol. 84 (2001)</i>	Rhodium Complexes Containing O-Bonded $\text{NH}_x\text{Me}_2\text{y}_x\text{CHO}$ (x,0, 1, 2):X-Ray Structure of $[\text{Rh}(\text{PPh}_3)_3(\text{OCHNHMe})]\text{ClO}_4$
18	<i>J.molecules 2001, 6, 777-783</i>	Crystal and molecular structure of <i>cis</i> -Dichlorobis(triphenylphosphite) Platinum(II)
19	<i>Asian Journal of Chemistry Vol. 13, No. 4 (2001), 1581-1585</i>	The NMR Study on <i>Trans-Trans</i> -Dibenzylideneacetone Complex of Palladium (II)
20	<i>Materials Chemistry and Physics 78 (2002) 81-87</i>	Sol-gel processing of $\beta$ -eucryptite: an $^{27}\text{Al}$ nuclear magnetic Resonance investigation in sol stage
21	<i>J.Chem.Research (s) 2002 ,112-113</i>	Halogen scrambling in Pt(II) substitution reactions; a $^{31}\text{P}$ NMR study†
22	<i>Phosphorus, Sulfur, and Silicon and the Related Elements Vol. 178, 7, 2003</i>	Characterization Reaction of Benzoyl Methylene Triphenylphosphorane and Benzoyl Methylene Tri- <i>n</i> -butylphosphorane with Rhodium (III) and Ruthenium (III) Chloride. A Multinuclear NMR Study

23	<i>Asian Journal of Chemistry Vol. 15, No. 3-4 (2003), 1677-1686</i>	Synthesis, Spectroscopic Investigation and X-ray Structural Characterization of .....
24	<i>Phosphorus, Sulfur, and Silicon 179, 2004 473-481</i>	A <sup>31</sup> P NMR STUDY OF TERTIARY PHOSPHINE COMPLEXES OF PLATINUM(II) AND PALLADIUM(II)
25	<i>Phosphorus, Sulfur, and Silicon Vol. 179, 1, 2004 2029-2038</i>	PREPARATION AND MULTINUCLEAR NMR STUDY OF BENZOYL METHYLENE TRIPHENYLPHOSPHORNE AND BENZOYL METHYLENE TRI-N-BUTYLPHOSPHORANE PT (0) AND PD (0) COMPLEXES
26	<i>Journal of Organometallic Chemistry 689 (2004) 2494–2502</i>	Synthesis of a new class of unsymmetrical PCPO pincer ligands and their palladium (II) complexes: X-ray structure determination of PdCl{C <sub>6</sub> H <sub>3</sub> -2-CH <sub>2</sub> PPh <sub>2</sub> -6-CH <sub>2</sub> PBut <sub>2</sub> }
27	<i>Phosphorus, Sulfur, and Silicon Vol. 181, 1, 2006 69-74</i>	Synthesis of New Phosphorus Ligands and Their Reactions with Palladium (II) Halide: A Multi Nuclear NMR Study
28	<i>Phosphorus, Sulfur, and Silicon Vol 180, 9, 2005 2013-2021</i>	A Synthesis and Multinuclear NMR Study of New β – Phosphorus Ylides and Their Palladium (II) Complexes
29	<i>Phosphorus, Sulfur, and Silicon Vol. 181, 2, 2006 447-452</i>	Synthesis and Multinuclear NMR Study of a New Benzoyl Methylene Triparatolyphosphorine Ylide and its Reactions with Mercury (II) Halides
30	<i>Phosphorus, Sulfur, and Silicon Vol. 181, 6, 2006</i>	Synthesis and Multinuclear NMR Study of Benzoyl Methylene Triparatolyphosphorane Ylide and the Reaction of this Ylide with Mercury (II) Halides
31	<i>Asian Journal of Chemistry Vol. 16, No. 3-4 (2004), 1381-84</i>	Manganese (II) complexes of pentadentate Macrocyclic Schiff base ligands containing pyridine
32	<i>Polyhedron 26 (2007) 1445–1448</i>	A highly active two six-membered phosphinite palladium PCP pincer complex [PdCl{C <sub>6</sub> H <sub>3</sub> (CH <sub>2</sub> OPri) <sub>2</sub> -2,6}]
33	<i>J.Chem.Res. 2007, 91-93</i>	Three-component one-pot synthesis and multinuclear NMR study of some β-phosphorus ylides
34	<i>Pakistan J.Biological, Science, 10(4) : 641-644, 2007</i>	Antibacterial effect of N- Naphtylen Diamin Platinum(II) Chloride as a novel compound
35	<i>Asian Journal of Chemistry Vol. 20, NO, 6 (2006) 4329-4334</i>	Synthesis and Multinuclear NMR Study of 4-Methylbenzoylmethylene-tri-p-tolyphosphorane Ylide and its Related Complexes with Mercury(II) Halides
36	<i>Asian Journal of Chemistry Vol. 19, No. 7 (2007), 5450-5458</i>	Microwave Assisted Synthesis and Biological Evaluation of Hydanto in Derivatives
37		
38	<i>Journal of Organometallic Chemistry 692 (2007) 5440–</i>	Synthesis and characterization of new nitrate-bridged Polymeric complexes of mercury(II) with phosphorus

	5446	ylides
39	<i>Phosphorus, Sulfur, and Silicon</i> Vol.182, (2007) 2719-2729	Synthesis of Mononuclear Cyclopalladated Complexes Containing Tertiary Phosphines (Pph <sub>2</sub> et, P(4-Mec <sub>6</sub> h <sub>4</sub> ) <sub>3</sub> ), Triphenylarsine, Piperidine, Benzylamine, and Pyridine
40	<i>JOURNAL OF CHEMICAL RESERCH</i> 2007	Synthesis and variable temperature <sup>1</sup> H and <sup>31</sup> P NMR study of phosphorus ylides derived from reaction of NH-acids, triarylphosphine and acetylenic esters
41	<i>Polyhedron</i> 26 (2007) 2845– 2850	Synthesis, spectroscopic and X-ray structural studies of mercury(II) Halide complexes of 4-methoxybenzoylmethylenetriphenylphosphorane
42	<i>Asian Journal of Chemistry</i> Vol. 19, No. 7 (2007), 5471-5476	Synthesis and Spectral Studies of Mercury (II) Complexes of 4-Bromobenzoylmethylenetriphenylphosphorane
43	<i>Acta Cryst.</i> (2007). E63, o3160	4-Bromobenzoylmethylene-triphenylphosphorane ylide
44	<i>Journal of Organometallic Chemistry</i> 689 (2004) 2494– 2502	Synthesis of a new class of unsymmetrical PCP <sup>0</sup> pincer ligands and their palladium (II) complexes: X-ray structure determination of PdCl[C <sub>6</sub> H <sub>3</sub> -2-CH <sub>2</sub> PPh <sub>2</sub> -6-CH <sub>2</sub> PBut <sub>2</sub> ]
45	<i>Chinese Chemical Society located, 2008, 55, 197-200</i>	Synthesis and NMR Study of $\alpha$ -Keto Stabilized Ylides of the Type RCOCH=PAR <sub>3</sub> , (R=MeO-C <sub>6</sub> H <sub>4</sub> , Cl-C <sub>6</sub> H <sub>4</sub> , NO <sub>2</sub> -C <sub>6</sub> H <sub>4</sub> , $\alpha$ -Thiophenyl and Naphthyl ; Ar = p-Tolyl or Phenyl)
46	<i>ANALYTICAL SCINENCES</i> 2008,vol,24	Cyrtal Structure of Bis(4-methoxybenzoylmethlenetriparatolyl-phosphonium $\mu$ -Iodo(diiodomercurate) Complex , C <sub>30</sub> H <sub>30</sub> HgI <sub>3</sub> O <sub>2</sub> P
47	<i>Acta Crystallographica Section E</i> ISSN 1600 5368 (2008)	Bis[(4-bromobenzoylmethyl)triphenylphosphonium] di- <i>l</i> -bromido-bis[dibromidomercurate(IV)]
48	<i>S. African journal Chemical</i> 2009 62 , 9-13	Synthesis and Characterization of Transition Metal (Hg(II), Ag (I) and Cd(II)) Complexes of Some New Phosphorus Ylides
49	<i>Polyhedron</i> 27 2008 1963-1968	Synthesis of a new carbbenzyloxymethylenetriphenylphosphorane ylide And the study of its reaction with mercury (II) halides : Spectral and structural characterization
50	<i>Acta Crystal. Section E</i> 2008 , <i>E</i> , 64 ,m833	Bis[(4-bromobenzoylmethyl)triphenylphosphonium] di- <i>l</i> -bromido-bis[dibromidomercurate(IV)]
51	<i>Journal of Organometallic Chemistry</i> 693 (2008) 1975– 1985	New mono and binuclear mercury(II) complexes of phosphorus Ylides containing DMSO as ligand: Spectral and structural characterization
52	<i>Acta Crystal.</i> (2008) . E64,0647	2-Thienylcarbonylmethylene–triphenylphosphorane ylide
53	<i>Inorganic Chemica Acta</i> 362(2009) 105-112	Synthesis and characterization of binuclear mercury(II) complexes of phosphorus ylides,X-ray analysis and

		multinuclear NMR measurements
54	<i>Polyhedron</i> 27(2008)2015-2021	Structural, theoretical and multinuclear NMR study of mercury(II) complexes of phosphorus ylides: mono and binuclear complexes
55	<i>Polyhedron</i> 27(2008) 3275-3279	New ortopaladated complexes of phosphorus ylides:crystal structure of [Pd{CH{P(C7H6)(p-tolyl)2}COCH3}Cl{P(p-tolyl)3}]
56	<i>The Japan Society for analytical chemistry</i> 2009,vol.25,13	Crystal structure of diiodo,(4-chloroBenzoylmethyleneTriphenyl phosphorane),(dimethylsulfoxide), mercury(II)complex, C28H26ClHg2I2O2PS
57	<i>The Japan Society for analytical chemistry</i> 2009,vol.26,35	Crystal structure of 4'-Chlorobenzoyl methylenetriphenylphosphorane ylide C26H20ClOP
58	<i>Journal of coordination chemistry</i> Vol.63,NO.7 2010,1165-1175	Synthesis and multinuclear NMR study of Hg(II) , Cd(II) and Pd(II) complexes with biphenylmethylenetriphenylphosphorane:X-ray crystal structure of [{C6H5C6H4CO{(C6H5)3P}CH}HgI2]2
59	<i>Asian journal of chemistry</i> Vol.22,NO.3 2010,1449-1456	Synthesis and Multinuclear NMR study of Novel complexes of Zn(II) and Hg(II) containing Phosphorus Ylides
60	<i>Inorganica chemica acta</i> 363(2010)3973	Synthesis , Characterization and structural studies of new Palladium(II) complexes including non-symmetric phosphorus ylide
61	<i>Inorganica chemica acta</i> 363(2010)3654	New mononuclear mercury(II) complexes of a bifunctionalized ylide containing five-membered chelate ring:Spectral and structural characterization
62	<i>Journal of organometallic chemistry</i> 695(2010)1441-1450	Four-coordinated and Pseudo five-coordinate Hg(II) complexes of a new bidentate phosphorus ylides:X-ray crystal structure and spectral characterization
63	<i>Inorganic chemica acta</i> 363(2010)	Synthesis, Characterization and Structural studies of mercury(II) complexes of new bidentate phosphorus ylide
64	<i>Asian Journal of chemistry</i> Vol.22,NO 9(2010)6854-6866	Synthesis and characterization of Ag(I) and.....
65	<i>Helvetica Chemica acta</i> Vol.93(2010)1105	Synthesis of new Phosponium ylides.....
66	<i>Hetroatom Chemistry</i> Vol.21,NO.7,2010,475	Synthesis of new phosphorus ylides:spectroscopic and X-ray structural studies
67	<i>Japan Society for Analytical chemistry</i> Vol27,P.3,2011	Crystal Structure of 4-Bromobenzoyldiphenylphosphorane
68	<i>Polyhedron</i> 30(2011),2486	Structural,Theoretical and multinuclear NMR study of mercury(II) complexes with a new ambidentate phosphorus ylide
69	<i>Journal of Organomet.chem.</i> 696(2011)3521	Synthesis and structure of mono- and di-nuclear complexes of ortho-palladated derived from phosphorus ylides
70	<i>Russian J.of Inorganic Chemistry</i>	Edge-Shared[M2Cl10]2- Complexes of Reaction Between Oxophilic Group 4 Metal and Phosphorus Ylides



	2012 Vol.57,NO 7,P. 1005.	
71	<i>J.Inorganic Organomet.Polymer</i> DOI 10.1007/10 904-2012-9793-6	Structural, theoretical and Multinuclear NMR Study of a new polymeric Mercury(II) complex with an Ambidentate phosphorus Ylide
72	<i>Polyhedron</i> 38(2012)131-136	Structural, theoretical and multinuclear NMR study of mercury(II) and Silver(I) complexes with two new ambidentate phosphorus ylides
73	<i>Sensor and Actuator B</i> 161(2012)542-548	Construction of a modified carbon paste electrode for the highly selective simultaneous electrochemical determination of trace amounts of mercury(II) and cadmium(II)
74	<i>Journal of Molecular Structure</i> 1034(2013)265-270	Binuclear mercury(II) complexes of Sulfonium Ylides:Synthesis, structural characterization and anti-bacterial activity
75	<i>Journal of Organomet.chem</i> 723(2013),207-213	Four coordinated Pd(II) complexes containing non-symmetric phosphorus ylides:synthesis, characterization, and catalytic behavior towards suzuki reaction
76	<i>Journal of Molecular Structure</i> 1034(2013)189-192	<sup>31</sup> P NMR study of stoichiometry and stabilityof several mercury(II) halides with a phosphorus ylide in different solvents
77	<i>Journal of phosphor carbon silicon</i> 2013 (1743-1758)  GPSS_A_779274	Structural,theoretical and spectroscopic study of mercury(II) complexes of two new non-symmetric phosphorus ylides
78	<i>Submitted to j.Chemical paper</i> DOI:10.2478/s11696-013-0487-5	Synthesis and structural characterization of the mercury(II) complexes of new bidentate phosphorus ylides
79	<i>j.Molecular structure</i> 1040(2013)184-191 published	Synthesis,characterization and Nuclear Magnetic Resonance study of the stoichiometry and stability of several zwitterionic mercury(II) complexes in dimethylsulfoxide
80	<i>Journal of Molecular Structure</i> 1061 (2014) 90–96	Mercury(II) complexes of unsymmetric phosphorus ylides:Synthesis,spectroscopic and antibacterial activity studies
81	<i>j.chemical science Vol. 125, No, 3, May 2013, pp. 653-660</i>	Synthesis,Spectroscopic, and Structural Characterization of new linear mononuclear Silver(I) complexes containing $\alpha$ -keto Phosphorus Ylides as Ambidentate Ligands
82	<i>Comptes Rendus Chimie</i> published 16(2013)159-175	Synthesis, characterization, thermal, electrochemical, and DFT studies of mononuclear cyclopalladated complexes containing bidentate phosphine ligands and their biological evaluation as antioxidant and antibacterial
83	<i>J.Comptes Rendus</i> 16(2013) 1017-1023	New Mercury(II) and Cadmium(II) Complexes with Para-methylbenzoylmethylenetriphenyl Phosphorane as a Ambidentate Ligand:Synthesis,Spectroscopic,and Structural Characterization
84	<i>Dalton Trans., 2013, 42, 252</i>	Synthesis and Characterization of Novel Simultaneous C and O-Coordinated and Nitrate-Bridged Complexes of

		Silver(I)with Carbonyl-Stabilized Sulfonium Ylides and Their Antibacterial Activities
85	<i>Polyhedron</i> 53(2013)1-7	Reactivity of mercury(II) halides with $\alpha$ -keto stabilized Sulfonium Ylides:crystal structures of two new Polymer and Binuclear complexes and in vitro antibacterial Study
86	<i>Unknown</i>	Palladium
87	<i>Phosphorus, Sulfur, and Silicon</i> , 190:1–10, 2015	Transition metal complexes of $\alpha$ -keto stabilized Sulfonium ylides:Linear in contrast to Bridged structure in Silver(I) complexes
88	<i>J.Molecular structure</i> 1046 (2013) 39–43	Novel One-dimensional Polymeric Chlorocadmate sulfonium salts obtained from Sulfonium Ylides:synthesis and structural characterization
89	<i>Inorganica Chimica Acta</i> 405(2013)15-23	Palladacycle phosphine complexes as homogeneous catalysts for the Heck cross-coupling reaction at low catalyst loading under aerobic conditions
90	<i>Inorganica chimica Acta</i> <i>Reject</i>	Synthesis and characterization of mononuclear complexes of ortho-paladated
91	<i>Spectrochimica Acta Part A: Molecular and Biomolecular</i>	. Pd(II) and Pd(IV) Complexes with 5-Methyl-5-(4-pyridyl)hydantoin: Synthesis, Physicochemical, Theoretical, and Pharmacological Investigation <b>Spectrochimica Acta Part A: Molecular and..</b>
92	<i>Inorganic chemical Acta</i> 409(2014) 265-275	Platinum and Palladium Complexes with 5-Methyl-5-(2-Pyridyl)-2,4 Imidazolidedione: Synthesis, Crystal and Molecular Structure, Theoretical Study, and Pharmacological Investigation
93	<i>C. R. Chimie</i> 17 (2014) 1257–1263	X-ray Crystal Structure and Spectral Characterization of Pseudo Five-Coordinate Hg(II) Polymeric and Four-Coordinate Binuclear Complexes of an Ambidentate Sulfonium Ylide
94	<i>Acta Crystallographica Section E</i> . 2013 E69, 0183	1-(4-Chlorophenyl)-2-[tris(4-methylphenyl)- $\lambda^5$ -phosphanylidene]butane-1,3-dione
95	<i>Inorganic Chemistry Communications</i> 36 (2013) 39–44	New dimeric phosphine ylide copper (I) complexes: Synthesis, coordination behavior, and application in Suzuki cross-coupling reactions
96	<i>Has been sent to turkish journal(17.6.92)antibactry results , has been sent to African</i>	Mercury(II) Polymeric Complexes of Bidentate Phosphorus Ylides:Synthesis,Characterization and Antibacterial Studies
97	<i>Catalysis communica</i> 37(2013)114-121	An efficient Protocol for copper and Amine-free Sonogashia reactions Catalysed by mononuclear Palladacycle complexes containing bidentate ligand
98	<i>Journal of Molecular Catalysis</i>	Phosphine mono- and bis-ylide palladacycles as homogeneous

	<i>A: Chemical 383– 384 (2014) 249– 259</i>	molecular precatalysts: Simple and efficient protocol greatly facilitate Suzuki and Heck coupling reactions
99	<i>Volum 15 P 31</i>	Advance in Chemistry Research
100	<i>j.coordination Chem. Vol.66,NO,3,2013, 411-423</i>	Five membered cyclopalladated complex containing bidentate phosphine ligands: synthesis, characterization and Highly efficient Suzuki cross-coupling reactions.
101	<i>2014, 761, 111–119 J organomet. Chem</i>	Synthesis and structural characterization of dimeric phosphine ylide Cu(I) complexes: application in Suzuki cross-coupling reactions and biological evaluation as antibacterial agents
102	<i>J.Iranian chemical Society 2013(1137-1143)</i>	Complexation studies of $Mn^{2+}$ , $Zn^{2+}$ and $Cd^{2+}$ ion with series of tetradentate( $N_4$ ) Schiff base...
103	<i>J.Tetrahedron letter 54(2013) 4656</i>	Palladium(II) Phosphine-ylide complexes as highly efficient Suzuki and Heck cross-coupling reactions catalysed by P,C and C,C Palladacycle Phosphine-ylide complexes as catalyst precursors
104	<i>Synlet 2014, 25, 0336-0342</i>	Moisture and air-stable, robust phosphine mono-ylide palladacycle pre-catalyst: A simple and highly efficient system for Mizoroki-Heck reactions
105	<i>JOURNAL OF CHEMICAL RESEARCH 2014, 35–40</i>	Mercury(II) Polymeric Complexes of Bidentate phosphorus ylides: Synthesis, Characterization and Antibacterial studies
106	<i>C. R. Chimie 17 (2014) 81–90</i>	Seven-membered Pd(II) complexes containing symmetric phosphoric ylides: synthesis, characterization and high catalytic activity toward Suzuki cross-coupling reactions...
107	<i>Under Review JICS reject Send chemical science rejected On 25th octob. 2014 is sending Arabian journal</i>	Zwitterionic Hg(II) complexes of bidentate phosphine-phosphonium salts: Synthesis and Spectral characterization
108	<i>Journal of molecular structure 1051 (2013) 15–22</i>	Mercury(II) complexes with 5-methyl-5-(4-pyridyl)-2, 4-imidazolinedione: Synthesis, structural characterization, and theoretical studies
109	<i>Polyhedron 85 (2015) 652- 664</i>	New chlorine bridged binuclear silver(I) complexes of bidentate phosphorus ylides: Synthesis, spectroscopy, theoretical and anti-bacterial studies
110	<i>JOURNAL OF Chemical RESEARCH PAPER VOL. 38 page, 192–196 F 2014</i>	Synthesis, spectroscopic and antibacterial studies of silver(I) complexes with bidentate phosphorus ylides
111	<i>Journal of Inorganic and Organometallic Polymers and Materials 20<sup>th</sup> march 2015</i>	Synthesis and Characterization of Polymeric Hg(II) Complexes with 5-Methyl-5-(3-pyridyl)-2,4-imidazolinedione Showing a Wide Spectrum of Effective Antibacterial Activities
112	<i>Molecular chemical catalysis</i>	Highly efficient Suzuki and Heck cross-coupling reactions

	<i>submitted</i>	catalysed by PC and adacycle phosphine-ylides complexes asCC Plle precursors
113	<i>Current Topics in medicinal chemistry (CTMC), Volume. 13, No. 24, Year; 2013.</i>	N-Containing Ag(I) and Hg(II) Complexes: A New Class of Antibiotics
114	<i>NewJ.Chem., 2014, 38, 1199</i>	Gold(III) complexes of 5-methyl-5-(pyridyl)-2,4-imidazolinedione: Synthesis, physicochemical, theoretical, antibacterial, and cytotoxicity investigation
115	<i>Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 135 (2015) 1019–1031</i>	Pd(II) and Pd(IV) Complexes with 5-Methyl-5-(4-pyridyl)hydantoin: Synthesis, Physicochemical, Theoretical, and Pharmacological Investigation Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy
116	<i>C. R. Chimie 18 (2015) 564–572</i>	Synthesis, theoretical, and antibacterial approach in the characterization of 5-Methyl-5-(3-pyridyl)hydantoin ligand and its palladium and platinum complexes
117	<i>Transition Met Chem (2015) 40:657–663</i>	well-defined, air-stable and efficient five-membered Pd(II) catalyst precursor in aqueous phase for the Suzuki-Miyaura reaction
118	<i>Inorganic Chemistry Communications 47 (2014) 123–127</i>	Functionalized $\alpha$ -keto stabilized sulfonium ylides as highly active ligand precursors for palladium catalyzed Suzuki–Miyaura cross-couplings
119	<i>Is in African journal</i>	Mercury(II) Polymeric Complexes of Bidentate Phosphorus Ylides: Synthesis, Characterization and Antibacterial Studies
120	<i>Analytica Chimica Acta 2015-</i>	Simultaneous electrochemical sensing of thallium, lead and mercury using a novel ionic liquid/graphene modified electrode
121	<i>Int. J. Curr. Res. Chem. Pharma.Sci. 2(1): (2015): 51–58</i>	SYNTHESIS, SPECTROSCOPIC ANALYSIS, AND ANTIBACTERIAL STUDIES OF PT(IV), PT(II), HG(II), AND AU(III) COMPLEXES WITH 5-(4-PYRIDYL)-5-PHENY-2,4-IMIDAZOLIDENEDIONE
122	<i>J. Chem. Sci. Vol. 127, No. 11, November 2015, pp. 1919–1926.</i>	C(sp <sup>2</sup> )–C(sp <sup>2</sup> ) cross coupling reaction catalyzed by a palladacycle phosphine complex: A simple and sustainable protocol in aqueous media
112	<i>Molecular chemical catalysis submitted</i>	Highly efficient Suzuki and Heck cross-coupling reactions catalysed by PC and adacycle phosphine-ylides complexes asCC Plle precursors
113	<i>Current Topics in medicinal chemistry (CTMC), Volume. 13, No. 24, Year; 2013.</i>	N-Containing Ag(I) and Hg(II) Complexes: A New Class of Antibiotics

114	<i>NewJ.Chem.</i> , 2014, 38, 1199	Gold(III) complexes of 5-methyl-5-(pyridyl)-2,4-imidazolinedione: Synthesis, physicochemical, theoretical, antibacterial, and cytotoxicity investigation
115	<i>Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy</i> 135 (2015) 1019–1031	Pd(II) and Pd(IV) Complexes with 5-Methyl-5-(4-pyridyl)hydantoin: Synthesis, Physicochemical, Theoretical, and Pharmacological Investigation Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy
116	<i>C. R. Chimie</i> 18 (2015) 564–572	Synthesis, theoretical, and antibacterial approach in the characterization of 5-Methyl-5-(3-pyridyl)hydantoin ligand and its palladium and platinum complexes
117	<i>Transition Met Chem</i> (2015) 40:657–663	well-defined, air-stable and efficient five-membered Pd(II) catalyst precursor in aqueous phase for the Suzuki-Miyaura reaction
118	<i>Inorganic Chemistry Communications</i> 47 (2014) 123–127	Functionalized $\alpha$ -keto stabilized sulfonium ylides as highly active ligand precursors for palladium catalyzed Suzuki–Miyaura cross-couplings
119	<i>Is in African journal</i>	Mercury(II) Polymeric Complexes of Bidentate Phosphorus Ylides: Synthesis, Characterization and Antibacterial Studies
120	<i>Analytica Chimica Acta</i> 2015-	Simultaneous electrochemical sensing of thallium, lead and mercury using a novel ionic liquid/graphene modified electrode
121	<i>Int. J. Curr. Res. Chem. Pharma.Sci.</i> 2(1): (2015): 51–58	SYNTHESIS, SPECTROSCOPIC ANALYSIS, AND ANTIBACTERIAL STUDIES OF PT(IV), PT(II), HG(II), AND AU(III) COMPLEXES WITH 5-(4-PYRIDYL)-5-PHENY-2,4-IMIDAZOLIDENEDIONE

122	<i>J. Chem. Sci. Vol. 127, No. 11, November 2015, pp. 1919–1926.</i>	C(sp <sup>2</sup> )–C(sp <sup>2</sup> ) cross coupling reaction catalyzed by a palladacycle phosphine complex: A simple and sustainable protocol in aqueous media
123	<i>Int. J. Curr. Res. Chem. Pharma.Sci. 2(8): (2015):7–16</i>	SYNTHESIS AND CHARACTERIZATION OF SOME TRANSITION METAL COMPLEXES WITH A NEW MONODENTATE PHOSPHORUS
124	<i>Advancs in chemistry research Accepted 2015</i>	Ylides: Synthesis, reactions and applications
125	<i>Has been Sent to NJC</i>	New Palladacycle Complexes of Diphosphine Ylide; Synthesis, Xray Characterization and Catalytic Behaviour Towards the Suzuki-Miyaura and Mizoroki-Heck Cross-Coupling Reactions
126	در حال ارسال	[6,6]-Methanofullerene derivatives incorporating simultaneous $\alpha$ - and $\beta$ -keto stabilized phosphorus ylides; Synthesis, characterization and theoretical study
127	<i>Polyhedron 117 (2016) 273–282</i>	A new Pd(II) complex of a sulfur ylide; Synthesis, X-ray characterization,
128	در حال ارسال به مجله اورگانومتالیک	New Five-membered Pd(II) Complexes of Diphosphine Ylide; Synthesis, X-ray Characterization
129	<i>RSC Adv. 2016</i>	New Pd(II) Complexes of Sulfur Ylide; Synthesis, X-ray Characterization, Theoretical
130	فرستاده شده به مجله اپلاید اورگانومتالیک	New Rh(III) Cyclometalated complexes of 5-methyl-5-(pyridyl) <sub>2</sub> ,4 imidazolinedione
131	2016; Dalton Transactions, 45, 13899–13906   13899.	P, C- chelation versus P, P-coordination of unsymmetrical phosphorus ylides in palladacyclopropa
132	فرستاده شده به کامپتس	P, C-chelated and P, P-coordinated palladacyclopropa[60]fullerene complexes of phosphorus ylides; Synthesis
133	فرستاده شده به مولکولار استراکچر و ریوایز شده	Pd(II) and Pt(II) complexes of $\alpha$ -keto stabilized sulfur ylide: Synthesis, structural, theoretical and
134	در حال ارسال به پلی هدرن	Different coordination modes of ambidentate phosphorous ylides in complexation with pallada- and platinacyclopropa[60]fullerenes
135	در حال ارسال به کوردینیشن کمیستری	Preparation and structures of a new metallo(Pd/Pt)-cyclopropa[60]fullerene complexes containing unsymmetrical
136	در حال ارسال	Synthesis, characterization and antibacterial activity of new mercury(II) complexes containing
137	در حال ارسال به ژورنال تتراهدرون	Synthesis, characterization and catalytic properties, Electrochemistry studies of metallo -cyclopropa
138	در حال ارسال	Synthesis, structural characterization and anti-bacterial activity.....

### **3- M.Sc. and Ph.D. Students:**

13 Ph.D. and More than 50 M.Sc. students have been graduated by this professor.

### **4- Books:**

I- 2001 *Spectroscopic methods in Inorganic Chemistry*

II- 2003 *Inorganic chemistry* Vol.1, G.Misler and M.Tarr

III-2003 *Inorganic chemistry* Vol.2, G.Misler and M.Tarr

IV- *General Inorganic Chemistry*J. A. Duffy

V- *Introduction to cluster chemistry of transition metal with solved problem* 2013.

VI- *Advancs in chemistry research chapter copy right*2015 by nova science publishers, Inc. vol. 27 chapter 7 pag. 161.

VII.*Advancs in chemistry research chapter copy right* ©2012 by nova science publishers, Inc. ,vol. 15 chapter 2 pag. 31.

these books have been written (IV and V) or translated (I, II and III) translated to Persian

### **TEACHING EXPERIENCE:**

a.*Inorganic courses* for M.Sc. and Ph.D. students

b.*Spectroscopic methods* for B.Sc., M.Sc. and Ph.D. students.

### **Memberships:**

- *Iranian Chemistry and Chemical Engineering Society*  
1990- present.