



/ Faculty of Chemistry and Petroleum Sciences

Mohsen Golbon Haghighi

شماره تماس: ۲۹۹۰۵۷۱۳

رایانامه: m_golbon@sbu.ac.ir

وب سایت: <https://facultymembers.sbu.ac.ir/golbon>

پروفايل علم سنجی:

http://scimet.sbu.ac.ir/Mohsen_GolbonHaghighi

Education

- M.Sc: , Chemistry-Inorganic Chemistry, 1386→1388
- Ph.D: , Chemistry-Inorganic Chemistry, 1388→1392
- B.Sc: , , 1382→1386

Research Interests

-
-
-
-
-

Professional Experiences

- , 1402→Now
- , 1402→Now
- , 1399→1399
- , 1396→1397
- , 1394→1397

Industry Collaborations

- سیانودار کردن کمپلکس های سیکلومتاله پلاتین و مطالعه خواص آنها
1400

■ سنسور چشمی رنگ سنی حساس بر پایه نانو کامپوزیت پلیمری جهت شناسایی یون های جیوه و سرب در محلول های آبی- تاریخ دریافت قرارداد 99
1399

■ نهیه و مطالعه خواص ترکیبات بیس آریل فلئوئور و پلاتین با استفاده از واکنشگرهای فلئوئوردار کننده الکترونیکی
1398

■ مطالعه بر روی سنتز، شناسایی، مکانیسم، خواص (II): بررسی باز شدن حلقه کی لیت لیگاند های دو دندان فسفینی در کمپلکس های آلی فلزی پلاتین فوتوفیزیکی و دارویی
1394

Journal Papers

■ Luminescent Anionic Cyclometalated Organoplatinum (II) Complexes with Terminal and Bridging Cyanide Ligand: Structural and Photophysical Properties

Mina Sadeghian Babukani, David Gomez de Segura, Mohsen Golbon Haghighi, Naser Safari, Elena Lalinde, M. Teresa Moreno
INORGANIC CHEMISTRY, Vol.62, pp. 1513-1529, 2023

■ Boosting Photoelectrochemical Water Oxidation Performance of Nanoporous BiVO₄ via Dual Cocatalysts Cobaloxime and Ni-OEC Modification

Taotao Wang, Hongyun Cao, Jinbao Wu, Mohsen Golbon Haghighi, Roya Sedghi, Pingwu Du
Journal of Physical Chemistry C, Vol.126, pp. 11042-11050, 2022

■ Group 10 Metal-Cyanide Scaffolds in Complexes and Extended Frameworks: Properties and Applications

Mina Sadeghian Babukani, Mohsen Golbon Haghighi, Elena Lalinde, Teresa Moreno
COORDINATION CHEMISTRY REVIEWS, Vol.452, 2022

■ Easy Csp²-Csp² Reductive Elimination from Organoplatinum Complexes by Electrophilic Fluorinating Reagents

Mohsen Golbon Haghighi, Elin Sarkissian, Hamidreza Samouei
JOURNAL OF ORGANOMETALLIC CHEMISTRY, Vol.967, 2022

■ Insights into Platinum Complex-HSA Bindings: Spectral and Molecular Dynamics Simulation Studies

Abolfazl Ashrafi, Mohammad Mehdi Alavianmehr, Delara Mohammad-Aghaie, Reza Yousefi, Mohsen Golbon Haghighi, Ali Akbar Moosavi-Movahedi, Navid Soltani Rad
Physical Chemistry Research, Vol.9, pp. 427-446, 2021

■ Strategy for Selective Csp²-F and Csp²-Csp² Formations from Organoplatinum Complexes

Elin Sarkissian, Mohsen Golbon Haghighi
INORGANIC CHEMISTRY, Vol.60, pp. 1016-1020, 2021

■ Photophysical Properties and Kinetic Studies of 2-Vinylpyridine-Based Cycloplatinated(II) Complexes Containing Various Phosphine Ligands

Vahideh Dolatyari, Hamid Reza Shahsavari, Sepideh Habibzadeh, Reza Babadi Aghakhanpour, Sareh Pazireh, Mohsen Golbon Haghighi, Mohammad Reza Halvagar
MOLECULES, Vol.26, 2021

■ Dual-Emissive Bis(diphenylphosphino)amine Platinum Complexes: Structural, Reactivity, Photophysical, and Theoretical Investigations

Mahboubeh Jamshidi, Seyyed Reza Barzegar Kiadehi, Mohsen Golbon Haghighi, Behrouz Notash
ORGANOMETALLICS, Vol.39, pp. 3099-3111, 2020

■ Anticancer Activity Assessment and DNA Binding Properties of Two Binuclear Platinum (II) Complexes using Spectroscopic and Molecular Simulation Approaches

Mohammad Mehdi Alavianmehr, Abolfazl Ashrafi, Reza Yousefi, Mohsen Golbon Haghighi, Samira Sadat Abolmaali, Ali Akbar Moosavi-Movahedi, Mohammad Navid Soltani Rad
Anti-Cancer Agents in Medicinal Chemistry, Vol.20, pp. 1-8, 2020

■ Iron-Porphyrin/Cysteine/PEG as Pseudo-Chloroperoxidase Nanozyme

Yazdan Sajadimehr, Zainab Moosavi Movahedi, Mohsen Golbon Haghighi, Ahmad Babaei Miyardan, Maryam Nourisefat, Ali Akbar Moosavi Movahedi
ChemistrySelect, Vol.4, pp. 10357-10364, 2019

■ **Carbon-iodide bond activation by cyclometalated Pt (II) complexes bearing tricyclohexylphosphine ligand: A comparative kinetic study and theoretical elucidation**

Samira Chamyani, Hamid Reza Shahsavari, Sedigheh Abedanzadeh, Mohsen Golbon Haghighi, Sepideh Shabani, Behrouz Notash
APPLIED ORGANOMETALLIC CHEMISTRY, Vol.33, 2019

■ **Influence of ancillary ligands on the photophysical properties of cyclometalated organoplatinum(II) complexes**

Mozhgan Samandar Sangari, Mohsen Golbon Haghighi, S. Masoud Nabavizadeh, Arno Pfitzner, Mehdi Rashidi
NEW JOURNAL OF CHEMISTRY, Vol.42, pp. 8661-8671, 2018

■ **Influence of the Diphosphine Coordination Mode on the Structural and Optical Properties of Cyclometalated Platinum(II) Complexes An Experimental and Theoretical Study on Intramolecular PtPt and pipi Interactions**

Seyyed Reza Barzegar Kiadehi, Mohsen Golbon Haghighi, Mahboubeh Jamshidi, Behrouz Notash
INORGANIC CHEMISTRY, Vol.57, pp. 5060-5073, 2018

■ **A Borane Platinum Complex Undergoing Reversible Hydride Migration in Solution**

Abdollah Neshat, Hamid R. Shahsavari, Piero Mastorilli, Stefano Todisco, Mohsen Golbon Haghighi, Behrouz Notash
INORGANIC CHEMISTRY, Vol.57, pp. 1398-1407, 2018

■ **Phosphine-functionalized graphene oxide a high-performance electrocatalyst for oxygen reduction reaction**

Ali A. Ensafi, Mohsen Golbon Haghighi, Mehdi Jafari-Asl
APPLIED SURFACE SCIENCE, Vol.427, pp. 722-729, 2018

■ **Highly Emissive Cycloplatinated(II) Complexes Obtained by the Chloride Abstraction from the Complex Pt(ppy)(PPh₃)(Cl) Employing Various Silver Salts**

Hamid Reza Shahsavari, Reza Babadi Aghakhanpour, Mahshid Nikraves, John Ozdemir, Mohsen Golbon Haghighi, Behrouz Notash, Mohammad Hassan Beyzavi
ORGANOMETALLICS, Vol.37, pp. 2890-2900, 2018

■ **Cycloplatinated(ii) complexes bearing an OS-heterocyclic ligand search for anticancer drugs**

Masood Fereidoon nezahad, Zahra Ramezani, Mahshid Nikraves, Jalalaldin Zangeneh, Mohsen Golbon Haghighi, Zahra Faghih, Behrouz Notash, Hamid R. Shahsavari
NEW JOURNAL OF CHEMISTRY, Vol.42, pp. 7177-7187, 2018

■ **A new approach to the effects of isocyanide (CN-R) ligands on the luminescence properties of cycloplatinated(ii) complexes**

Hamid Reza Shahsavari, Reza Babadi Aghakhanpour, Mojdeh Hossein-Abadi, Mohsen Golbon Haghighi, Behrouz Notash, Masood Fereidoon nezahad
NEW JOURNAL OF CHEMISTRY, Vol.41, pp. 15347-15356, 2017

■ **Photophysical study on unsymmetrical binuclear cycloplatinated(II) complexes**

Mozhgan Samandar Sangari, Mohsen Golbon Haghighi, S. Masoud Nabavizadeh, Maciej Kubicki, Mehdi Rashidi
NEW JOURNAL OF CHEMISTRY, Vol.41, pp. 13293-13302, 2017

■ **Cyclometalated Platinum(II) Complexes Bearing Bidentate O O-Di(alkyl)dithiophosphate Ligands Photoluminescence and Cytotoxic Properties**

Masood Fereidoon nezahad, Babak Kaboudin, Tabassom Mirzaee, Reza Babadi Aghakhanpour, Mohsen Golbon Haghighi, Zeinab Faghih, Zahra Faghih, Zohreh Ahmadipour, Behrouz Notash, Hamid R. Shahsavari
ORGANOMETALLICS, Vol.36, pp. 1707-1717, 2017

■ **Transition metal-free N-fluoroalkylation of amines using cyanurate activated fluoroalcohols**

Fatemeh Haghighi, Farhad Panahi, Mohsen Golbon Haghighi, Ali Khalafi-Nezhad
CHEMICAL COMMUNICATIONS, Vol.53, pp. 12650-12653, 2017

■ **Photophysical properties of a series of cycloplatinated(ii) complexes featuring allyldiphenylphosphane**

Hamid R. Shahsavari, Reza Babadi Aghakhanpour, Mojgan Babaghasabha, Mohsen Golbon Haghighi, S. Masoud Nabavizadeh, Behrouz Notash
NEW JOURNAL OF CHEMISTRY, Vol.41, pp. 3798-3810, 2017

■ **Combined Kinetico-Mechanistic and Theoretical Elucidation of the Oxidative Addition of Iodomethane to Cycloplatinated(II) Complexes Controlling the Rate of trans/cis Isomerization**

Hamid R. Shahsavari, Reza Babadi Aghakhanpour, Mojgan Babaghasabha, Mohsen Golbon Haghighi, S. Masoud Nabavizadeh, Behrouz Notash
EUROPEAN JOURNAL OF INORGANIC CHEMISTRY, Vol.2017, pp. 2682-2690, 2017

■ Immobilized copper iodide on a porous organic polymer bearing P N-ligation sites A highly efficient heterogeneous catalyst for C O bond formation reaction

Nasser Iranpoor, Farhad Panahi, Fatemeh Roozbin, Sajjad Rahimi, Mohsen Golbon Haghighi
JOURNAL OF MOLECULAR CATALYSIS A-CHEMICAL, Vol.438, pp. 214-223, 2017

■ Reactivity of a half-lantern Pt₂(ii ii) complex with triphenylphosphine selectivity in a protonation reaction

Maryam Niazi, Hamid Reza Shahsavari, Mohsen Golbon Haghighi, Mohammad Reza Halvagar, Samaneh Hatami, Behrouz Notash
RSC Advances, Vol.6, pp. 76463-76472, 2016

■ Immobilized Pd(0) nanoparticles on phosphine-functionalized graphene as a highly active catalyst for Heck Suzuki and N-arylation reactions

Reza Fareghi-Alamdari, Mohsen Golbon Haghighi, Negar Zekri
NEW JOURNAL OF CHEMISTRY, Vol.40, pp. 1287-1296, 2016

■ Carbon sulfur bond reductive coupling from a platinum(ii) thiolate complex

Maryam Niazi, Hamid R. Shahsavari, Mohsen Golbon Haghighi, Mohammad Reza Halvagar, Samaneh Hatami, Behrouz Notash
RSC Advances, Vol.6, pp. 95073-95084, 2016

■ Study on the interaction of three structurally related cationic Pt(II) complexes with human serum albumin importance of binding affinity and denaturing properties

Reza Yousefi, Mehrnaz Jamshidi, Mohammad Bagher Shahsavani, S. Masoud Nabavizadeh, Mohsen Golbon Haghighi, Mehdi Rashidi, Asghar Taheri-Kafrani, Ali Niazi, Fatemeh Keshavarz, Mohammad Mehdi Alavinamehr
Journal of the Iranian Chemical Society JICS, Vol.13, pp. 617-630, 2016

■ Anticancer activity and DNA-binding properties of novel cationic Pt(II) complexes

Mehrnaz Jamshidi, Reza Yousefi, Seyed Masoud Nabavizadeh, Mehdi Rashidi, Mohsen Golbon Haghighi, Ali Niazi, Ali-Akbar Moosavi-Movahedi
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, Vol.66, pp. 86-96, 2014

■ Comparison of coordination mode of some biphosphine ligands in cyclometalated organoplatinum(II) complexes

Ahmad Reza Esmailbeig, Mohsen Golbon Haghighi, Sahebeh Nikahd, Sara Hashemi, Mohammad Mosarezaee, Mehdi Rashidi, S. Masoud Nabavizadeh
JOURNAL OF ORGANOMETALLIC CHEMISTRY, Vol.755, pp. 93-100, 2014

■ Photogeneration of hydrogen from water using CdSe nanocrystals demonstrating the importance of surface exchange

Amit Das, Zhiji Han, Mohsen Golbon Haghighi, Richard Eisenberg
PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, Vol.110, pp. 16716-16723, 2013

■ Selectivity in metalcarbon bond protonolysis in p-tolyl- (or methyl)-cycloplatinated(ii) complexes kinetics and mechanism of the uncatalyzed isomerization of the resulting Pt(ii) products

Mohsen Golbon Haghighi, S. Masoud Nabavizadeh, Mehdi Rashidi, Maciej Kubicki
DALTON TRANSACTIONS, Vol.42, pp. 13369-13380, 2013

■ Cyclometalated organoplatinum(ii) complexes first example of a monodentate benzohquinolyl ligand and a complex with bridging bis(diphenylphosphino)ethane

Mohsen Golbon Haghighi, Mehdi Rashidi, S. Masoud Nabavizadeh, Sirous Jamali, Richard J. Puddephatt
DALTON TRANSACTIONS, Vol.39, pp. 11396-11402, 2010

■ Assembly of Symmetrical or Unsymmetrical Cyclometalated Organoplatinum Complexes through a Bridging Diphosphine Ligand

S. Masoud Nabavizadeh, Mohsen Golbon Haghighi, Ahmad Reza Esmailbeig, Fatemeh Raoof, Zeinab Mandegani, Sirous Jamali, Mehdi Rashidi, Richard J. Puddephatt
ORGANOMETALLICS, Vol.29, pp. 4893-4899, 2010

■ کمپلکسهای پلاتینی با لیگاند ایمینی فروسن DNA سنتز، شناسایی و مطالعات برهمکنش با

بهنام حبیبی شبستری، محسن گلبن حقیقی

شیمی کاربردی، نسخه ۱۸، صفحات: ۲۲۵-۲۴۰، ۱۴۰۱

■ کمپلکس شده با سیستمین با بسترهای هیدروژلی و وسیکی به عنوان نانوزایم های پراکسیدازی و کاتالازی M-TPP پورفیرین فلزی

زینب موسوی موحدی، یزدان سجادی مهر، محسن گلبن حقیقی

Conference Papers

■ Homo- and Hetero- Binuclear Cyclometalated Platinum (II) Complexes featuring bridging cyanide ligand: Structural and Photophysical Properties

Mohsen Golbon Haghighi, Mina Sadeghian Babukani, David Gómez De Segura, Maitte Moreno, elena lalinde
19th Asian Chemical Congress, pp.336-337

■ Selective carbon-F and carbon-carbon bond formation from organoplatinum complexes

Mohsen Golbon Haghighi, Elin Sarkissian
19th Asian Chemical Congress, pp.127-128

■ Selective Ar-F and Ar-Ar Reductive Elimination Reactions from Organoplatinum Complexes

Elin Sarkissian, Mohsen Golbon Haghighi
44th International Conference on Coordination Chemistry, pp.66-66

■ EFFECT OF THE COUNTERANION IN THE PHOTOPHYSICAL PROPERTIES OF ANIONIC CYANO CYCLOMETALATED PLATINUM(II) COMPLEXES

Mina Sadeghian Babukani, David Gomez de Segura, Maria Teresa Moreno, Elena Lalinde, Mohsen Golbon Haghighi
11th day of chemistry - CISQ, pp.39-39

■ The influence of dpmm coordination mode on intramolecular interactions and optical properties of cyclometalated platinum(II) complexes Experimental and theoretical study

Seyyed Reza Barzegar Kiadehi, Mohsen Golbon Haghighi, Mahboubeh Jamshidi, Behrouz Notash
International Conference on Coordination Chemistry, pp.1-1

■ Pseudo-Chloroperoxidase nanozyme designing via Michaelis Menten Constant

Zainab Moosavi-Movahedi, Yazdan Sajadimehr, Mohsen Golbon Haghighi, Maryam Nourisefat, Ali Akbar Moosavi-Movahedi
the 3rd conference on protein and peptide sciences, pp.165-165

■ Iron-Porphyrin/Cystein as pH switchable pseudo-enzyme

Yazdan SajadiMehar, Zeinab Moosavi-Movahedi, Mohsen Golbon Haghighi, Ali Akbar Moosavi-Movahedi
19th iranian inorganic chemistry conference, pp.2-2

■ Oxidation of cycloplatinated(II) complexes by iodomethane isolation of the kinetic product

Mojgan Babaghassabha, Hamidreza Shahsavari, Reza Babadi Aghakhanpour, Mohsen Golbon Haghighi, S. Masoud Nabavizadeh, Behrouz Notash
19th iranian inorganic chemistry conference, pp.3-3

■ Cyclometalated platinum(II) complexes comprising O S-heterocyclic ligand searching for anticancer drugs

Mojgan Babaghassabha, Hamidreza Shahsavari, Masoud Fereidoonnezhad, Mohsen Golbon Haghighi, Behrouz Notash
19th iranian inorganic chemistry conference, pp.4-4

■ Influence of isocyanide ligands on the luminescence properties of cycloplatinated(II) complexes

Mahdi HosseinAbadi, Hamidreza Shahsavari, Reza Babadi Aghakhanpour, Mohsen Golbon Haghighi, Behrouz Notash
19th iranian inorganic chemistry conference, pp.5-5

■ Component participation of iron-Tetra(2-pyridyl) porphyrin in activity of chloroperoxidase artificial enzyme

Yazdan Sajadimehr, Zeinab Moosavi-Movahedi, Mohsen Golbon Haghighi, Maryam Nourisefat, Ali Akbar Moosavi-Movahedi
19th iranian inorganic chemistry conference, pp.1-1

■ Organometallic Fluoro Complexes Swimming against the Stream

Mohsen Golbon Haghighi
19th Iranian Chemistry Congress, pp.1-1

■ Investigation of the molecular interaction of platinum complex with Human Serum Albumin

Mohammad Mehdi Alavian Mehr, Reza Yousefi, Mohsen Golbon Haghighi, Abulfazl Ashrafi
19th Iranian Chemistry Congress

■ Different Cycloplatinated(II) Complexes with Allyldiphenylphosphine as Ancillary Ligand Photophysical Study

■ Synthesis Characterization and Computational Studies of Symmetrical Binuclear Complex containing bridging biphosphine ligand from Cyclometalated Bis-Chelate Organoplatinum (II) Complex

Seyyed Reza Barzegar Kiadehi, Mohsen Golbon Haghighi
19th Iranian Chemistry Congress, pp.2-2

■ Phosphine Functionalized Graphene Oxide A High Performance Electrocatalyst for Oxygen Reduction Reaction

Ali Ensafi, Mohsen Golbon Haghighi, Mehdi Jafari-Asl
12th Annual Electrochemistry Seminar of Iran, pp.227-228

Evaluating anticancer activity and DNA-binding properties of cycloplatinated (II) water-soluble complexes ■

شکیلا شاه نعمت اللهی، محسن گلبن حقیقی

بیست و دومین کنفرانس شیمی معدنی ایران، صفحات: ۱۰-۱۰

The Study on Structural and Optical properties of Binuclear Platinum Complexes with various bidentate Ligands ■

محسن گلبن حقیقی

بیست و دومین کنفرانس شیمی معدنی ایران، صفحات: ۳۰۶-۳۰۶

Structural, reactivity, and optical properties of homo and hetero binuclear cycloplatinated(II) complexes with bridging cyanide ■

مینا صادقیان بابوکانی، محسن گلبن حقیقی، ناصر صفری

بیست و دومین کنفرانس شیمی معدنی ایران، صفحات: ۶۰-۶۰

Study on the reactivity of organoplatinum complexes with chelating ۱,۲-bis (diphenylphosphino)ethane in presence of air ■

بهنام حبیبی شبستری، محسن گلبن حقیقی

بیست و یکمین کنفرانس شیمی معدنی ایران، صفحات: ۱۳۰-۱۳۰

Study on reactivity of organoplatinum complexes with electrophilic fluorinating reagents ■

الین سرکیسیان، محسن گلبن حقیقی

بیست و یکمین کنفرانس شیمی معدنی ایران، صفحات: ۱۳۶-۱۳۶

Synthesis and characterization of platinum compounds with ferrocenyl ligand ■

بهنام حبیبی شبستری، محسن گلبن حقیقی

بیست و یکمین کنفرانس شیمی معدنی ایران، صفحات: ۱۲۹-۱۲۹

The Binuclear Organoplatinum(II) Complexes with Diphosphine Bridging Ligands Synthesis and Optical Properties ■

محسن گلبن حقیقی

بیستمین کنگره شیمی ایران، صفحات: ۱۲۰-۱۲۰

Activation of C-I Bond by Cycloplatinated(II) Complexes Comprising Tricyclohexylphosphine ligand Kinetics and Mechanism Investigations ■

مانده کوهی، حمیدرضا شهسواری، سپیده شعبانی، محسن گلبن حقیقی، بهروز نوتاش
بیستمین کنگره شیمی ایران، صفحات: ۲۹۱-۲۹۱

Ring Opening of Biphosphine Chelate in Cationic Cyclometalated Bis-Chelate Organoplatinum (II) Complexes to Form Symmetrical Binuclear Complexes ■

محسن گلبن حقیقی، بهروز نوتاش
هجدهمین کنگره شیمی ایران، صفحات: ۲۶۸-۲۶۸

Unsymmetrical Binuclear Cycloplatinated (II) Complexes Synthesis Characterization Spectroscopic and computational studies ■

محسن گلبن حقیقی، مهدی رشیدی، سید مسعود نبوی زاده، مژگان سمندر سنگری، ماسیج کویکی
هجدهمین کنگره شیمی ایران، صفحات: ۲۶۹-۲۶۹

Protonolysis of Cyclometalated Organoplatinum(II) Complexes and Their Reactivity with Phosphine ligands ■

محسن گلبن حقیقی
هجدهمین کنگره شیمی ایران، صفحات: ۱۶۷-۱۶۷

thesis and doctoral thesis

■
Mina Sadeghian Babukani
2023

M.Sc. Theses

■
Shakila Shahnematollahi
2023

■
Aref Salehi
2023

■ investigation of reductive elimination reactions using electrophilic fluorinating reagents
SOMAYEH KOU CHEH BAGHI GAVAFSHADI
2021

■ oxygen activation by organoplatinum complexes
Shiva Oveisi
2021

■ detection of mercury by binuclear platinum complexes
Hanieh Hajari
2021

■ Study on Reactivity of Organometallic Platinum(II) compounds with Electrophilic Flourinating Agents
Elin Sarkissian

2019

■ part 1- Synthesis and characterization of Platinum complexes with ferrocenyl ligand --- part 2- Study on the reactivity of organoplatinum complexes with chelating 1,2-bis(diphenylphosphino)ethane in presence of air.
Behnam Habibi Shabestari
2019

■
Seyyed Reza Barzegar Kiadehi
2017

Awards & Honors

■ مدرس برگزیده دانشگاه شهید بهشتی در سال ۱۴۰۲
۱۴۰۱

■ محقق سرآمد علمی کشور در سال ۱۴۰۱
۱۴۰۰

■ پژوهشگر برگزیده دانشگاه شهید بهشتی در سال ۱۴۰۱
۱۴۰۰

■ محقق سرآمد علمی کشور در سال ۱۳۹۸
۱۳۹۷

■ پژوهشگر شاخص دانشگاه شهید بهشتی در حوزه دانشی علوم پایه در سال ۱۳۹۷
۱۳۹۶

Patents & Innovations

■ سنسور چشمی و اختصاصی یون جیوه بر پایه کمپلکس پلاتینی
محسن گلبن حقیقی، حانیه جباری، دانشگاه شهید بهشتی – تهران
۲۰۲۳