Brief Resume
(26-12-2025)

Mir F. Mousavi, Ph.D

(Mir Fazlollah Mousavikozehkonan)

Current Research Interests:

Novel nano-structured materials: synthesis, fundamental studies, and investigation of their applications in electrochemical energy conversion and storage systems

Selected Honors and Awards:

2006 **Leading Scientist** (in the OIC Member States)

2006 **Distinguished Professor in Chemistry** at TMU

2007 **Most Cited ISI Scientist** (top 1%, recognized by ESI, Engineering category)

2008 **First-ranked Laureate in Modern Technology** in the 14th Annual Razi International Research Festival on Medical Sciences

2008 **Modern Technology ISESCO Award**

2011 **Distinguished Professor of Analytical Chemistry**, granted by the Iranian Chemical Society (ICS)

2013-14 **Top Cited Author of** *Electrochimica Acta*, granted by the International Society of Electrochemistry (ISE)

2019 **National Distinguished Professor,** granted by the Ministry of Science, Research and Technology (MSRT)

2019-20 **High-end Foreign Experts**, nomination by Zhejiang University of Technology

2020 **Distinguished Professor of Electrochemistry**, granted by the Iranian Electrochemical Society (IECS)

2019-25 **Scientific Elite**, granted by the Iranian Science Elites Federation (ISEF), Top 10

2022-23 **Top Cited Author of** *The Chemical Record*

2022-25 **Most Cited ISI Scientist** (top 1%, recognized by ESI, Chemistry Category)

2023 **Scientific Elite**, granted by the Iranian Science Elites Federation (ISEF), 1st Rank

2024 **Eni Award** Nomination, for the paper published in *Adv. Energy Mater.* **2023**, *13* (41), 2302137.

2024-25 Cutting-edge studies published in Chem. Sci. (2025) are featured in the Editor's Choice collection. This collection highlights 12 significant research contributions in batteries and energy storage from the past two years.

2025 Invitation for China 2026 National High-Level Talent Program Application.

2025 Invitation to Join the 2026 Global Scientific Research Collaboration Program

Output Summary:

183 ISI papers, >10 highly cited, **h-index** = 64 (Google Scholar), >14,700 **citations**.

>300 Seminars (Plenary, Keynote, and invited speaker: over 50 times).

5 Patents (3 national, 2 USA).

1 Book (Mousavi, M. F.; Ghasemi, S. Sonochemistry: a suitable method for synthesis of nano-structured materials. Nova Science Publishers: Hauppauge, N.Y., 2010.) **Invited**.

1 Book Chapter (in Encyclopedia of Sensors (10-Volume Set), by Craig A. Grimes, Elizabeth C. Dickey, and Michael V. Pishko. American Scientific Publishers; 1 edition (December 20, 2006). **Invited**.

Selected Positions and Memberships:

1. Editorial Board:
   a. **International Journal of Nanoscience and Nanotechnology (IJNN)**
      (Publisher: Iranian Nano Technology Society, INS)
   b. **Scientia Iranica, Transactions of Nanotechnology**
      (Publisher: Elsevier)
2. Elected Regional Representative for the **International Society of Electrochemistry**
   (1st term: 2007-2009; 2nd term: 2010-2012)

3. Reviewer of more than 50 Scientific Journals, indexed in ISI, including *Nature Communications, Advanced Energy Materials, Advanced Functional Materials, Journal of the American Chemical Society, ACS Nano, ACS Applied Energy Materials, ACS Applied Materials & Interfaces, Small, Chemical Society Reviews, Energy Storage Materials, Chem Catalysis, Journal of Power Sources*.

4. Member of:

   Iranian Chemical Society (ICS)

   American Chemical Society (ACS)

   Iranian Nanotechnology Society (INS)

   International Society of Electrochemistry (ISE)

   Electrochemical Society of Iran

5. **Visiting Professor at UCLA**, Department of Chemistry and Biochemistry (2013-2014)

6. Appointed as **the Honored Professor of Overseas Expertise** Introduction Center (Zhejiang University of Technology, China) from 2018 to 2022.

National Cooperation:

1. Department of Clinical Biochemistry, Faculty of Medical Sciences, **Tarbiat Modares University**, Tehran, 14155-331, Iran. **Prof. S. Zahra Bathaie** (Since 2001)
2. Faculty of Basic Sciences, **Shahed University**, Tehran 3319118-651, Iran. **Prof. Mohammad S. Rahmanifar** (Since 2003)
3. Department of Physics, **Shahid Rajaee Teacher Training University**, Lavizan, Tehran P.O. Box: 16875-163, Iran; Department of Physics, **University of Antwerp** Groenenborgerlaan 171, Antwerp B-2020, Belgium. **Prof. Mehdi Neek-Amal** (Since 2021)
4. Department of Chemistry, **Razi University**, Kermanshah 67149, Iran. **Dr. Nasim Hassani** (Since 2021)

International Cooperation:

1. Department of Chemistry and Biochemistry, Department of Materials Science and Engineering, and California NanoSystems Institute, **University of California, Los Angeles (UCLA)**, CA 90095, USA. **Prof. Richard B. Kaner** (Since 2013)
2. State Key Laboratory Breeding Base of Green Chemistry Synthesis Technology, College of Chemical Engineering, **Zhejiang University of Technology**, Chaowang Road, Hangzhou 310014, P. R. China. **Prof. Cheng Zhang** (Since 2017)
3. Global Innovative Centre for Advanced Nanomaterials, The School of Engineering, College of Engineering, Science and Environment, **The University of Newcastle,** Callaghan 2308, Australia, **Prof. Ajayan Vinu** (Since 2020)
4. State Key Laboratory of Silicon Materials, Key Laboratory of Advanced Materials and Applications for Batteries of Zhejiang Province, School of Materials Science & Engineering, **Zhejiang University**, Hangzhou 310027, China; College of Materials Science & Engineering, **Zhejiang University of Technology**, Hangzhou 310014, China. **Prof. Xinhui Xia** (Since 2021)
5. Institute of Fundamental and Frontier Sciences, **University of Electronic Science and Technology of China**, Chengdu 611731, Sichuan, China. **Prof. Yongqi Zhang** (Since 2021)
6. School of Energy Science and Engineering, **Nanjing Tech University**, Nanjing, Jiangsu 211816, P. R. China. **Prof. Yuping Wu** (Since 2022)
7. State Key Laboratory of Bioinspired Interfacial Materials Science, Institute of Functional Nano & Soft Materials (FUNSOM), **Soochow University**, Suzhou 215123, China. **Prof. Youyong Li** (Since 2024)
8. Faculty of Chemistry, **University of Warsaw**, 02-093 Warsaw, Poland. **Prof. Damian Kowalski** (Since 2024)
9. Institute for Materials Discovery, **University College London (UCL)**, Malet Place, London, WC1E 7JE, UK. **Prof. Mojtaba Abdi-Jalebi** (Since 2025)

Research Group Members:

1. Postdocs Researchers: 3
2. Ph.D. Students: 6
3. M.Sc. Students: 3

Selected Recent Publications

No.	Authors	Title	J. Name	Date	Note
1	Shakibanasab, A.; Noori, A.; Rahmanifar, M. S.; **Mousavi, M. F.**	**Rationally Designed Metal Sulfide-LDH Heterostructures for High Energy Aqueous Zn-Based Battery Cathodes**	*Small*	**2025** Accepted	IF = 12.1
2	Bishkul, H.; Noori, A.; Rahmanifar, M. S.; Hassani, N.; Neek-Amal, M.; Liu, J.; Zhang, C.; El-Kady, M. F.; Mohamed, N. B.; Kaner, R. B.; **Mousavi, M. F.**	**Protein-Templated Fe and Ni Subnanoclusters for Advanced Energy Storage and Electrocatalysis**	*Small*	**2025** Accepted	Chosen as Journal Cover IF = 12.1
3	Moloudi, M.; Noori, A.; Rahmanifar, M. S.; El-Kady, M. F.; Mousali, E.; Mohamed, N. B.; Xia, X.; Zhang, Y.; Vinu, A.; Vincent, M.; Kowalski, D.; Kaner, R. B.; **Mousavi, M. F.**	**Nanostructured amorphous Ni–Co–Fe phosphide as a versatile electrocatalyst towards seawater splitting and aqueous zinc–air batteries**	*Chem Sci.*	**2025,** *16 (21)*, 9484–9500	Chosen as: Editor's Choice in Batteries and Energy Storage
4	Khodayar, N.; Noori, A.; Rahmanifar, M. S.; Moloudi, M.; Hassani, N.; Neek-Amal, M.; El-Kady, M. F.; Mohamed, N. B.; Xia, X.; Zhang, Y.; Kaner, R. B.; **Mousavi, M. F.**	**An ultra-high mass-loading transition metal phosphide electrocatalyst for efficient water splitting and ultra-durable zinc–air batteries**	*Energy Environ. Sci.*	**2024**, *17*, 5200-5215	IF = 32.4
5	Liao, H.; Zhong, W.; Li, C.; Han, J.; Sun, X.; Xia, X.; Li, T.; Noori, A.; **Mousavi, M. F.**; Liu, X.; Zhang, Y.	**An intrinsically self-healing and anti-freezing molecular chain induced polyacrylamide-based hydrogel electrolytes for zinc manganese dioxide batteries**	*J. Energy Chem.*	***2024***, *89*, 565-578	IF=13.1
6	Ashoori, A.; Noori, A.; Rahmanifar, M. S.; Morsali, A.; Hassani, N.; Neek-Amal, M.; Ghasempour, H.; Xia, X.; Zhang, Y.; El-Kady, M. F.; Kaner, R. B.; **Mousavi, M. F.**	**Tailoring Metal-Organic Frameworks and Derived Materials for High-Performance Zinc-Air and Alkaline Batteries**	*ACS Appl. Mater. Interfaces*	***2023,*** 30220-30239	IF=10.38
7	Yousefzadeh, H.; Noori, A.; Rahmanifar, M. S.; Hassani, N.; Neek-Amal, M.; El-Kady, M. F.; Vinu, A.; Kaner, R. B.; **Mousavi, M. F.**	**Partial Sulfidation of the Electrochemically Exfoliated Layered Double Hydroxides toward Advanced Aqueous Zinc Batteries**	*Adv. Energy Mater.*	***2023,*** 2302137	IF=29.69

8	Shen, S.; Chen, Y.; Zhou, J.; Zhang, H.; Xia, X.; Yang, Y.; Zhang, Y.; Noori, A.; **Mousavi, M. F.**; Chen, M.; Xia, Y.; Zhang, W.	**Microbe-Mediated Biosynthesis of Multidimensional Carbon-Based Materials for Energy Storage Applications**	*Adv. Energy Mater.*	***2023,*** *2204259*	IF=29.69
9	Qiu, Z.; Shen, S.; Liu, P.; Li, C.; Zhong, Y.; Su, H.; Xu, X.; Zhang, Y.; Cao, F.; Noori, A.; **Mousavi, M. F.**; Chen, M.; He, X.; Xia, X.; Xia, Y.; Zhang, W.; Tu, J.	**Plasma Enhanced Lithium Coupled with Cobalt Fibers Arrays for Advanced Energy Storage**	*Adv. Funct. Mater.*	***2023,*** *2214987*	IF=19.92
10	Moloudi, M.; Noori, A.; Rahmanifar, M. S.; Shabangoli, Y.; El-Kady, M. F.; Mohamed, N. B.; Kaner, R. B.; **Mousavi M. F.**	**Layered Double Hydroxide Templated Synthesis of Amorphous NiCoFeB as a Multifunctional Electrocatalyst for Overall Water Splitting and Rechargeable Zinc–Air Batteries**	*Adv. Energy Mater.*	***2023,*** *2203002*	IF=29.69 (Journal Cover)
11	Shahbazi Farahani, F.; Rahmanifar, M. S.; Noori, A.; El-Kady, M. F.; Hassani,N.; Neek-Amal, M.; Kaner, R. B.; **Mousavi M. F.**	**Trilayer Metal-Organic Frameworks as Multifunctional Electrocatalysts for Energy Conversion and Storage Applications**	*J. Am. Chem. Soc.*	***2022,*** *144, 3411-3428*	IF=16.38 (Highly cited)
12	Nazari, M.; Noori, A.; Rahmanifar, M. S.; El-Kady, M. F.; Hassani, N.; Neek-Amal, M.; Kaner, R. B.; **Mousavi M. F.**	**Phase-Dependent Energy Storage Performance of the NixSey Polymorphs for Supercapacitor-Battery Hybrid Devices**	*ACS Appl. Mater. Interfaces*	***2022,*** *14, 50900–50912*	IF=10.38
13	Khodayar, N.; Noori, A.; Rahmanifar, M. S.; Shabangoli, Y.; Baghervand, A.; El-Kady, M. F.; Hassani, N.; Chang, X.; Neek-Amal, M.; Kaner, R. B.; **Mousavi M. F.**	**Super-Fast and Super-Long-Life Rechargeable Zinc Battery**	*Adv. Energy Mater.*	***2022,*** *12, 2202784*	IF=29.69
14	Khodabandehlo, A.; Noori, A.; Rahmanifar, M. S.; El-Kady, M. F.; Kaner, R. B.; **Mousavi M. F.**	**Laser Scribed Graphene–Polyaniline Microsupercapacitor for Internet-of-Things Applications**	*Adv. Funct. Mater.*	***2022,*** *32, 2204555*	IF=19.92
15	Zhang, T.; Li, C.; Wang, F.; NooriA.; **Mousavi M. F.;** Xia X.; Zhang, Y.	**Recent Advances in Carbon Anodes for Sodium-Ion Batteries**	*Chem. Record*	***2022*** *e202200083*	IF=6.90 Top Cited Author
16	Dianat, N.; Rahmanifar, M. S.; Noori, A.; El-Kady, M. F.; Chang, X.; Kaner, R. B.; **Mousavi M. F.**	**Polyaniline-Lignin Interpenetrating Network for Supercapacitive Energy Storage**	*Nano Lett.*	***2021,*** *21, 9485-9493*	IF=12.26
17	Nazari, M.; Rahmanifar, M. S.; Noori, A.; Li, W.; Zhang, C.; **Mousavi M. F.**	**The ordered mesoporous carbon nitride-graphene aerogel nanocomposite for high-performance supercapacitors**	*J. Power Sources*	***2021,*** *494, 229741*	IF=9.79
18	Moloudi, M.; Rahmanifar, M. S.; Noori, A.; Chang, X.; Kaner, R. B.; **Mousavi M. F.**	**Bioinspired polydopamine supported on oxygen-functionalized carbon cloth as a high-performance 1.2 V aqueous symmetric metal-free supercapacitor**	*J. Mater. Chem. A*	***2021,*** *9, 7712-7725*	IF=14.51
19	Shabangoli, Y.; El-Kady, M. F.; Nazari. M.; Dadashpour, E.; Noori, A.; Rahmanifar, M. S.; Lv, X.; Zhang, C.; Kaner, R. B.; **Mousavi M. F.**	**Exploration of Advanced Electrode Materials for Approaching High-Performance Nickel-Based Superbatteries**	*Small*	***2020,*** *16, 2001340*	IF=15.15

20	Shabangoli, Y.; Rahmanifar, M. S.; Noori, A.; El-Kady, M. F.; Kaner, R. B.**;** **Mousavi, M. F.**	**Nile Blue Functionalized Graphene Aerogel as a Pseudocapacitive Negative Electrode Material across the Full pH Range**	*ACS Nano*	***2019,*** *13, 12567-12576*	IF=18.02
21	Dai, Y.; Li, W.; Chen, Z.; Zhu, X.; Liu, J.; Zhao, R.; Wright, D. S.; Noori, A.; **Mousavi M. F.**; Zhang, C.	**An air-stable electrochromic conjugated microporous polymer as an emerging electrode material for hybrid energy storage systems**	*J. Mater. Chem. A*	***2019,*** *7, 16397-16405*	IF=14.51
22	Noori, A.; El-Kady, M. F.; Rahmanifar, M. S.; Kaner, R.B.; **Mousavi M. F.**	**Towards establishing standard performance metrics for batteries, supercapacitors and beyond**	*Chem. Soc. Rev.*	***2019,*** *48, 1272-1341*	IF=60.61, (Highly cited, Back cover)
23	Rahmanifar, M. S.; Hemmati, M.; Noori, A.; El-Kady, M. F.; **Mousavi** M. **F**.; Kaner, R. B.	**Asymmetric supercapacitors: An alternative to activated carbon negative electrodes based on earth abundant elements**	*Mater. Today Energy*	***2019,*** *12, 26-36.*	IF=9.25
24	Shabangoli, Y.; Rahmanifar, M. S.; El-Kady, M. F.; Noori, A.; **Mousavi M. F**.; Kaner, R. B.	**Thionine Functionalized 3D Graphene Aerogel: Combining Simplicity and Efficiency in Fabrication of a Metal-Free Redox Supercapacitor**	*Adv. Energy Mater.*	***2018,*** *1802869*	IF=29.69
25	Hashemi, M., Rahmanifar, M. S., El- Kady, M. F., Noori, A**.,** **Mousavi M. F**., Kaner, R. B.	**The use of an electrocatalytic redox electrolyte for pushing the energy density boundary of a flexible polyaniline electrode to a new limit**	*Nano Energy*	***2018,*** *44, 489-498*	IF=19.06
26	Shabangoli, Y., Rahmanifar, M. S., El-Kady, M. F., Noori, A., **Mousavi, M. F**., Kaner, R. B.	**An integrated electrochemical device based on earth-abundant metals for both energy storage and conversion**	*Energy Storage Mater.*	***2018,*** *11, 282-293*	IF =20.83, (Highly cited)
27	Rahmanifar, Mohammad S.; Hesari, Hooman; Noori, Abolhassan; Masoomi, Mohammad Yaser; Morsali, Ali; **Mousavi M. F**.	**A dual Ni/Co-MOF-reduced graphene oxide nanocomposite as a high performance supercapacitor electrode material**	*Electrochim. Acta*	***2018,*** *275, 76-86*	IF=7.33, (Highly cited)
28	Wang, L. J.; El-Kady, M. F.; Dubin, S.; Hwang, J. Y.; Shao, Y.; Marsh, K.; McVerry, B.; Kowal, M. D.; **Mousavi M. F**.; Kaner, R. B.	**Flash Converted Graphene for Ultra-High Power Supercapacitors**	*Adv. Energy Mater.*	***2015,*** *5, 1500786*	IF=29.69
29	Shao, Y.; El-Kady, M. F.; Wang, L. J.; Zhang, Q.; Li, Y.; Wang, H.; **Mousavi M. F.**; Kaner, R. B.	**Graphene-based materials for flexible supercapacitors**	*Chem. Soc. Rev.*	***2015,*** *44,3639-3665*	IF=60.61, (Highly cited)
30	El-Kady, M. F.; Ihns, M.; Li,M.;Hwang,J.Y.; **Mousavi M. F**.; Chaney,L.; Lech,A.T.; Kaner, R. B.	**Engineering three-dimensional hybrid supercapacitors and microsupercapacitors for high- performance integrated energy storage**	*PNAS*	***2015,*** *112, 4233-4238*	IF=12.77, (Highly cited)
31	Pendashteh, A. Moosavifard, S. E.; Rahmanifar, M. S.; Wang, Y.; El-Kady,M.F.; Kaner, R. B.; **Mousavi M. F.**	**Highly Ordered Mesoporous CuCo2O4 Nanowires, a Promising Solution for High-Performance Supercapacitors**	*Chem. Mater.*	***2015,*** *27, 3919-3926*	IF=10.50, (Highly cited)

32	Ilkhani, H.; Sarparast, M.; Noori, A.; Bathaie, S. Z.; **Mousavi M. F**.	**Electrochemical aptamer/antibody-based sandwich immunosensor for the detection of EGFR, a cancer biomarker, using gold nanoparticles as a signaling probe**	*Biosens. Bioelectron.*	***2015,*** *74, 491-497*	IF=11.44, (Highly cited)
33	Pendashteh, A.; Rahmanifar, M. S.; Kaner, R.B.; **Mousavi M. F**.	**Facile synthesis of nanostructured $CuCo_2O_4$ as a novel electrode material for high-rate supercapacitors**	*Chem. Commun.*	***2014****, 50, 1972-5*	IF=6.22, (Highly cited)
34	Pendashteh, A.; **Mousavi M. F**.; Rahmanifar, M. S.	**Fabrication of anchored copper oxide nanoparticles on graphene oxide nanosheets via an electrostatic coprecipitation and its application as a supercapacitor**	*Electrochim. Acta*	***2013****, 88, 347-357*	IF=7.33, (Highly cited)

Selected Recent Talks in Conferences

Item No.	Title	Date	Conference/place	Note
1	**Design and fabrication of electrochemical nano-biosensors for the investigation of the interaction of some saffron ingredients with DNA**	*Jul 27–Aug 1,* ***2017***	*China-Iran conference on Saffron and natural products; Zhejiang, China*	Keynote speaker
2	**A quest for nanostructured materials for electrochemical energy storage**	*Feb 27–Mar 1,* ***2018***	*7th International Conference on Nanostructures (ICNS7); Tehran, Iran*	Invited speaker
3	**Electrochemical energy storage: A survey of our research group activities over the past two decades**	*Jul 17-19,* ***2018***	*20th Iranian Chemistry Congress; Mashhad, Iran*	Keynote speaker
4	**Electrochemical energy storage: Challenges and opportunities**	*Sep 3-5,* ***2018***	*25th Iranian Seminar of Analytical Chemistry; Tabriz, Iran*	Keynote speaker
5	**Nanomaterials in the sectors of electrochemical energy storage**	*Sep 26-28,* ***2018***	*7th International Congress on Nanoscience and Nanotechnology (ICNN7); Tehran, Iran*	Keynote speaker
6	**Nanostructured materials for the fabrication of the next generation of electrochemical energy storage and conversion devices**	*Oct 30 - Nov 2,* ***2018***	*International Conference on Emerging Advanced Nanomaterials (ICEAN) 2018; Newcastle, Australia*	Invited speaker
7	**Green synthesis of the BSA-templated metal nanoclusters and investigation of their fabrication in targeted drug delivery**	*Nov 29-30,* ***2018***	*4th Mogan Mountain International Summit on Green Pharmaceuticals; Hangzhou, China*	Keynote speaker
8	**Synthesis of Nanostructured Materials for Sustainable Energy Storage**	*Aug 4-9,* ***2019***	*70th Annual ISE Meeting (ISE70) Durban, South Africa*	Invited speaker

9	**Utilization of the nanostructured materials in the electrochemical energy storage systems**	*Aug 11-14,* ***2019***	*5th International Symposium on Electrochemistry Cape Town, South Africa*	Invited speaker
10	**Nanostructured Materials in Electrochemical Energy Storage Systems**	*Sep 19,* ***2019***	*Department of Applied Chemistry University of Science and Technology of China (USTC), Hefei, Anhui, China*	Invited speaker
11	**Electrochemical capacitors: from materials design to device fabrication**	*Oct 20-21,* ***2020***	*15th Annual Electrochemistry Seminar of Iran (ECSI2020), TMU, Tehran, Iran*	Plenary speaker
12	**Supercapacitive Energy Storage with a focus on the Negative Electrode Materials**	*Nov 18-20,* ***2020***	*8th International Conference on Nanostructures (ICNS8), Sharif University of Technology, Tehran, Iran*	Invited speaker
13	**Electrochemical Energy Storage for Sustaining a Healthy Planet**	*Jul 26-28,* ***2022***	*21st ICS international chemistry congress, Tabriz, Iran*	Keynote speaker
14	**Development of Advanced Materials for Supercapacitors, Batteries and Water Splitting for Contributing to a Better World**	*Aug 23-25,* ***2022***	*27th Iranian Seminar of Analytical Chemistry (ISAC27), Zanjan, Iran*	Plenary speaker
15	**Design and Synthesis of Advanced Nanostructured Energy Storage Materials Towards a Zero-Emission Future**	*Oct 17-21,* ***2022***	*4th International Conference on Emerging Advanced Nanomaterials (ICEAN 2022), Newcastle, Australia*	Keynote speaker
16	**Preparation of Advanced Nanostructured Electrocatalysts for Zinc-Air Batteries**	*Oct. 23-25,* ***2023***	*International Conference on Intangible Cultural Heritage 24 Solar Terms, Life Health and Traditional Chinese Medicine, Zhejiang, China*	Keynote speaker
17	**Advanced Emerging Materials for Sustainable Hydrogen Production**	*Jun. 9-12* ***2024***	*37th Topical Meeting of the International Society of Electrochemistry Stresa, Italy*	Oral speaker
18	**Synthesis of Emerging Advanced Electrocatalysts for Overall Water Splitting and Zinc-Air Batteries**	*Nov. 4-8* ***2024***	*5th International Conference on Emerging Advanced Nanomaterials ICEAN 2024, Newcastle, Australia*	Keynote speaker
19	**Synthesis of Advanced Multifunctional Materials for Green Hydrogen Production**	*Jan. 29-30,* ***2025***	*10th International Congress on Nanoscience and Nanotechnology, Rafsanjan, Iran*	Keynote speaker
20	**Advances in Nanostructured Materials for Next-Generation Sustainable Energy Conversion and Storage**	*Sep. 18,* ***2025***	*1st NSAM E-Conference: Sustainable Energy*	Invited Speaker

Selected Recent Talks at Universities

I have delivered numerous invited lectures at leading national and international universities, as listed below, and have been repeatedly invited to present lectures at several of these international institutions since 2017.

National Universities

1. *Sharif University of Technology,* Faculty of Physics, Tehran
2. *Birjand University,* Department of Chemistry, Faculty of Sciences, Birjand
3. *Kerman University,* Department of Chemistry, Faculty of Basic Sciences, Kerman
4. *Guilan University*, Department of Chemistry, Faculty of Science, Rasht
5. *Kharazmi University,* Faculty of Chemistry, Tehran,

International Universities

1. *Zhejiang University of Technology* (ZJUT Hangzhou, China), School of Chemical Engineering, 2017-2025
2. *University of Science and Technology, China* (USTC Hefei, Anhui), Applied Chemistry Department, 2019
3. *Zhejiang University* (ZJU, Hangzhou, China), Oct 30, 2023
4. *Yerevan State University* (Yerevan, Armenia), Sep 18, 2024
5. *Soochow University* (Suzhou, Jiangsu province, China), Institute of Functional Nano and Soft Materials, Sep 27, 2024
6. *Zhejiang University of Technology* (ZJUT, Hangzhou, China), College of Materials Science and Engineering, Sep 23, 2025
7. *Zhejiang University of Science and Technology* (ZUST, Hangzhou, China), School of Biological & Chemical Engineering, Sep 24, 2025

Research Group Alumni:

M.Sc. graduated: 57

1	Mohammad Reza Almasian, 1995	2	Mohammad Ali Firoozezare, 1995
3	Reza Noorhashemi,1995	4	Siavash Nouroozi, 1995
5	Ali Reza Ghiasvand, 1995	6	Nahid Sarlack, 1995
7	Mohsen Kashani, 1995	8	Jafar Vatankhah, 1997
9	Bahram Shahin, 1997	10	Akbar Malekpour, 1997
11	Ali Reza Karami, 1997	12	Ali Reza Jahanshahi, 1998
13	Marjan Immami, 1999	14	Mohammad Safi Rahmanifar, 1999
15	Shoukat Sahari, 2000	16	Hassan Karami, 2000
17	Hossein Heli, 2001	18	Arezoo Akbari, 2002
19	Mohadesi Zarandi, 2002	20	Shahram Ghasemi, 2003
21	Mojdeh Yousef Elahi, 2005	22	Mohammad Ali Kiani, 2006
23	Hamidreza Ghenaatian, 2007	24	Niloufar Hosseininasab, 2009
25	Afshin Pendashteh, 2009	26	Fatemeh Beigloo, 2010
27	Samaneh Mirsian, 2010	28	Ali Abbasi, 2011
29	Zahra Bagheryan, 2011	30	Mahdi Abedi, 2011
31	Ghasem Darabi-zad, 2012	32	Mohsen Najafi, 2012
33	Sima Malelahi, 2013	34	Omid Arabi, 2013
35	Pejman Kakvand, 2013	36	Shokoufeh Mokhtari, 2014
37	Mohammad Kazem Altafi, 2015	38	Morteza Sarparast, 2015
39	Ali Khodabandehlo, 2016	40	Fatemeh Ghojavand, 2016
41	Habibeh Bishkul, 2017	42	Mohadeseh Borghei, 2017
43	Afshin Baghervand, 2018	44	Mahsa-Sadat Javadi, 2019
45	Maryam Bagherinejad, 2019	46	Parisa Arabkhedri, 2020
47	Shadab Afshar, 2020	48	Ali Shakibanasab, 2020
49	Abedeh-Sadat Sajjadi, 2022	50	Rezvaneh Rahmani, 2022
51	Kosar Labbafi, 2022	52	Mohammad Razavi, 2023
53	Mohsen Ghasemi, 2024	54	Mahdiyeh M. Meygooni, 2024

55	Ayda Mehravar, 2025	56	Mahdi Alizadeh, 2025
57	Fatemeh Majidi, 2025		

Ph.D. graduated: 38

1	Dr. Mohsen Barzegar, 2001 (Top 1% ISI Scientist)	2	Dr. Abdolvahed Rahmani, 2001
3	Dr. Majid Arvand, 2003	4	Dr. Siavash Riahi, 2003
5	Dr. Mohammad Safi Rahmanifar, 2003	6	Dr. Habibollah Khajehsharifi, 2005
7	Dr. Hassan Karami, 2005	8	Dr. Khadijeh Ghanbari, 2007
9	Dr. Shahram Ghasemi, 2007	10	Dr. ali Mehdinia, 2008
11	Dr. Mohammad Ali Kiani, 2010	12	Dr. Ehsan Salamifar, 2010
13	Dr. Mojdeh Yousef Elahi, 2011	14	Dr. Vali Alizadeh, 2011
15	Dr. Hamidreza Ghenaatian, 2011	16	Dr. Ali Hamzehloei, 2013
17	Dr. Afshin Pendashteh, 2013 (Scientific Associate Editor, Nature Portfolio)	18	Dr. Nasrin Moradi, 2014
19	Dr. Fatemeh Beigloo, 2015	20	Dr. Seyed Ebrahim Moosavi-Fard, 2016
21	Dr. Samaneh Mirsian, 2016	22	Dr. Masumeh Hashemi, 2016
23	Dr. Seyed Rasool Azari, 2017	24	Dr. Masoud Amiri, 2017
25	Dr. Hooman Hesari, 2018	26	Dr. Maryam Hemmati, 2019
27	Dr. Yasin Shabangoli, 2019	28	Dr. Hamed Alijani, 2020
29	Dr. Mahrokh Nazari, 2021	30	Dr. Masumeh Moloudi, 2021
31	Dr. Elaheh Dadashpour, 2021	32	Dr. Neda Dianat, 2021
33	Dr. Ali Khodabandehlo, 2022	34	Dr. Navid Khodayar, 2022
35	Dr. Atefeh Ashoori, 2023	36	Dr. Hajar Yousefzadeh, 2023
37	Dr. Ebrahim Mousali, 2025	38	Dr. Habibeh Bishkul, 2025

Postdocs Researchers: 8

1. Dr. Abolhassan Noori, 2012-2018
2. Dr. Hoda Ilkhani, 2012-2014
3. Dr. Afshin Pendashteh, 2013-2014
4. Dr. Masumeh Hashemi, 2016-2018
5. Dr. Seyed Mehdi Khoshfetrat, 2017-2018
6. Dr. Fatemeh Shahbazi, 2019-2022
7. Dr. Yasin Shabangoli, 2019-2021
8. Dr. Masumeh Moloudi, Since 2021
9. Dr. Zohre Fahimi, 2023-2025
10. Dr. Navid Khodayar, Since 2024-2025
11. Dr. Ebrahim Mousali, Since 2025

Research Assistant: 1

1. Dr. Abolhassan Noori, 2018-2025

Courses Taught:

BSc Students:

1. General Chemistry
2. Analytical Chemistry I
3. Analytical Chemistry II
4. Instrumental Analysis

MSc Students:

1. Advanced Analytical Chemistry
2. Analytical Electrochemistry
3. Trace Analysis

PhD Students:

1. Modern Techniques for Instrumental Analyses (Since 1998)
2. Modern Electrochemical Methods (Since 2000)

International Summer Course (*Zhejiang University of Technology*) College of Materials Science and Engineering: Advanced Battery Materials and Devices (2025)

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