Navid Rabiee, Ph.D.

+61 4 7699 7019 nrabiee94@gmail.com navidrabiee@tsinghua.edu.cn

Birthdate: 09.01.1994 Marital Status: Single Permanent Residence of Australia

Citations (SCOPUS): 60,580 H-Index (SCOPUS): 87

Keywords: *Chemistry; Biomaterials; Nanoparticles; Nanomaterials; Healthcare Technologies*

RESEARCH EXPERIENCE:

August 2025-Present	**Co-Founder & Chief Scientific Officer** **Sensigen BioSystems Ltd., Beijing, China**
December 2024-Present	**Research Professor** **Department of Basic Medical Science, School of Medicine, Tsinghua University, 100084, Beijing, China** **Tsinghua-Peking Joint Center for Life Sciences, Tsinghua University, 100084, Beijing, China** **MOE Key Laboratory of Bioinformatics, Tsinghua University, 100084, Beijing, China**
June 2024-Present	**Co-Founder** **BioGenX Ltd., Seoul, South Korea**
June 2024-Present	**Distinguished Adjunct Faculty** **Department of Biomaterials, Saveetha Dental College and Hospitals, SIMATS, Saveetha University, Chennai-600077, India**
Feb 2023- March 2024	**Honorary Lecturer** **School of Engineering, Faculty of Science and Engineering, Macquarie University, Sydney, NSW, 2109, Australia**
November 2022-May 2024	**Scientist** **Centre for Molecular Medicine and Innovative Therapeutics, Murdoch University, Perth, WA 6150, Australia**
March 2022-October 2022	**Research Fellow** **Department of Materials Science and Engineering, Pohang University of Science and Technology (POSTECH), Korea**
September 2021-September 2022	**Invited Visiting Scholar**

	School of Engineering, Faculty of Science and Engineering, Macquarie University, Sydney, NSW, 2109, Australia
July 2021- July 2022	**Postdoctoral Research Associate** **Department of Physics, Sharif University of Technology, Tehran, Iran** Under Supervision of Prof. Omid Akhavan
January 2021- February 2022	**Research Associate** **National Cell Bank, Pasteur Institute of Iran, Tehran, Iran** In Collaboration with Prof. Shahin Bonakdar
September 2018- July 2021	**Research Assistant** **Department of Chemistry, Sharif University of Technology, Tehran, Iran** Under Supervision of Prof. Mojtaba Bagherzadeh
September 2016- February 2022	**Research Assistant** **Department of Biomedical Engineering, Amirkabir University of Technology, Tehran, Iran** Under Supervision of Prof. Mohamad Rabiee
September 2016- September 2018	**Research Assistant** **Department of Chemistry, Shahid Beheshti University, Tehran, Iran** In Collaboration with Prof. Nasser Safari
September 2016- September 2019	**Research Assistant** **Department of Medical Biotechnology, Iran University of Medical Sciences, Tehran, Iran**

TEACHING EXPERIENCE:

Spring 2022- Summer 2022	**Undergraduate Instructor** Pohang University of Science and Technology
Fall 2018- Fall 2021	**Undergraduate Instructor** Sharif University of Technology
Fall 2019- Fall 2021	**Graduate Instructor** Sharif University of Technology
Fall 2018- Fall 2021	**Teaching Assistant for General Chemistry I** Sharif University of Technology

Fall 2018- Fall 2021	**Teaching Assistant for General Chemistry Laboratory I** Sharif University of Technology
Fall 2018- Fall 2021	**Teaching Assistant for Inorganic Chemistry I** Sharif University of Technology
Fall 2018- Fall 2021	**Teaching Assistant for Inorganic Chemistry II** Sharif University of Technology
Fall 2018- Fall 2021	**Teaching Assistant for Inorganic Chemistry III** Sharif University of Technology
Fall 2016- Fall 2017	**Teaching Assistant for Inorganic Chemistry II** Shahid Beheshti University
Fall 2016- Fall 2017	**Teaching Assistant for Inorganic Chemistry I** Shahid Beheshti University

EDUCATION:

September 2018- September 2021	**Department of Chemistry, Sharif University of Technology, Tehran Iran** **Ph.D. in Inorganic Chemistry**
September 2016- September 2018	**Department of Chemistry, Shahid Beheshti University, Tehran Iran** **M.Sc. in Inorganic Chemistry**
September 2012- September 2016	**Department of Chemistry, Shahid Beheshti University, Tehran Iran** **B.Sc. in Pure Chemistry**

SELECTED PUBLICATIONS:

BOOKS:

1. **Rabiee, N.** and Makvandi, P., **2025**. *Green Biomaterials in Tissue Engineering*. **American Chemical Society**.

2. **Rabiee, N.** and Makvandi, P., **2024**. *Logic for Metal−Organic Framework Selection: MOFs for Biomedical Applications*. **American Chemical Society**.

3. Paiva-Santos, A.C., **Rabiee, N.,** Makvandi, P., **2024**. *Cell Membrane Surface-Engineered Nanoparticles: Biomimetic Nanomaterials for Biomedical Applications*. **American Chemical Society**.

4. **Rabiee, N**. and Hamblin, M.R., **2020**. Protein and peptide-based microarrays. *Protein and Peptide-based Microarrays for Multiplex Detection*. IOP Science, Morgan & Claypool Publishers.

5. **Rabiee, N**., Rabiee, M., Bagherzadeh, M. and Hamblin, M.R., **2019**. *Stimuli-responsive polymers: nano-dimension*. IOP Science, Morgan & Claypool Publishers.

6. **Rabiee, N**., Kiani, M., Bagherzadeh, M., Rabiee, M. and Ahmadi, S., **2019**. *Nanoparticle (NP)-Based Delivery Vehicles*. IOP Science, Morgan & Claypool Publishers.

7. Nasab, S.G., Yazd, M.J., Semnani, A., Kahkesh, H., **Rabiee, N**., Rabiee, M. and Bagherzadeh, M., **2019**. Natural corrosion inhibitors. *Synthesis Lectures on Mechanical Engineering*, *14*(1), pp.1-96.

8. Rabiee, M., **Rabiee, N**., Salarian, R. and Rabiee, G., **2019**. *Introduction to Nanomaterials in Medicine*. IOP Science, Morgan & Claypool Publishers.

9. Karimi, M., Mansouri, M.R., **Rabiee, N**. and Hamblin, M.R., **2018**. *Advances in Nanomaterials for Drug Delivery*. IOP Science, Morgan & Claypool Publishers.

JOURNAL ARTICLES: ***(*: as corresponding author)***

2025

1. **Rabiee, N**.*, **2025**. Comparing Hydrogen-Bonded Organic Frameworks and Metal-Organic Frameworks for Biosensor Applications. **TrAC Trends in Analytical Chemistry**, p.118211.

2. **Rabiee, N**.*, **2025**. Perspective on Multiview Super-Resolution Microscopy: Innovations and Future Directions. **Advanced Engineering Materials**, p.2402559.

3. **Rabiee, N**.*, **2025**. Wearable MOF Biosensors: A New Frontier in Real-Time Health Monitoring. **TrAC Trends in Analytical Chemistry**, p.118156.

4. Daneshgar, H., Safarkhani, M., Sojdeh, S., Bagherzadeh, M. and **Rabiee, N**.*, **2025**. CRISPR-Cas Technology for Rapid Detection of Pathogens. **TrAC Trends in Analytical Chemistry**, p.118174.

5. Sadraei, A., Naghib, S.M. and **Rabiee, N**.*, **2025**. 4D printing biological stimuli-responsive hydrogels for tissue engineering and localized drug delivery applications–part 1. **Expert opinion on drug delivery**, (just-accepted).

6. Arghavani, P., Daneshgar, H., Sojdeh, S., Edrisi, M., Moosavi-Movahedi, A.A. and **Rabiee, N**.*, **2025**. Porous Materials for Early Diagnosis of Neurodegenerative Diseases. **Advanced Healthcare Materials**, p.2404685.

7. **Rabiee, N**.*, **2025**. Super-Resolution Microscopy for Protein Imaging: Unraveling Cellular Architecture and Function. **TrAC Trends in Analytical Chemistry**, p.118140.

8. Mikaeeli Kangarshahi, B., Naghib, S.M., Younesian, D. and **Rabiee, N**.*, **2025**. Unlocking the Rhythmic Power of Bacterial Cellulose: A Comprehensive Review on Green Energy Harvesting and Sustainable Applications. **Advanced Functional Materials**, 35(3), p.2413760.

9. Moradi, A., Maskoukian, S., Bączek, T., **Rabiee, N**., Saeb, M.R., Farokhi, M. and Mottaghitalab, F., **2025**. Nanoparticulate systems for combination therapies of lung cancer: A review. **Journal of Nanoparticle Research**, 27(3), p.56.

10. Daneshgar, H., Fatahi, Y., Salehi, G., Bagherzadeh, M. and **Rabiee, N**.*, **2025**. Highly sensitive and selective detection of SARS-CoV-2 spike protein S1 using optically-active nanocomposite-coated melt-blown masks. **Analytica Chimica Acta**, 1336, p.343534.

2024

11. Iravani, S., **Rabiee, N.** and Makvandi, P., **2024**. Advancements in MXene-based composites for electronic skins. **Journal of Materials Chemistry B.**

12. Safarkhani, M., Ahmadi, S., Ipakchi, H., Saeb, M.R., Makvandi, P., Ebrahimi Warkiani, M., **Rabiee, N.*** and Huh, Y., **2024**. Advancements in Aptamer-Driven DNA Nanostructures for Precision Drug Delivery. **Advanced Science**, p.2401617.

13. Far, B.F., Naimi-Jamal, M.R., Daneshgar, H. and **Rabiee, N.*, 2024**. Bioengineered DNA-decorated UiO-66-based nanocarriers for combined administration of doxorubicin and sorafenib: Hepatocellular carcinoma treatment and chemotherapy. **Alexandria Engineering Journal**, 87, pp.114-125.

14. Koshki, M.S., Zirak, M., Kazemi, M., Alehdaghi, H., Baghayeri, M., Nodehi, M. and **Rabiee, N.*, 2024**. Molybdenum-doped BiVO4 thin films: Facile preparation via hot-spin coating method and the relationship between surface statistical parameters and photoelectrochemical activity. **Chemosphere**, 346, p.140579.

15. Safarkhani, M., Farasati Far, B., Kim, S.H., Makvandi, P., Park, M.K., Huh, Y. and **Rabiee, N**.*, **2024**. Advances and Challenges of Sensing in Water Using CRISPR-Cas Technology. **ACS Biomaterials Science & Engineering**.

16. Bigham, A., Zarepour, A., Safarkhani, M., Huh, Y., Khosravi, A., **Rabiee, N**.*, Iravani, S. and Zarrabi, A., **2024**. Inspired by nature: Bioinspired and biomimetic photocatalysts for biomedical applications. **Nano Materials Science**.

17. Safarkhani, M., Farasati Far, B., Lima, E.C., Jafarzadeh, S., Makvandi, P., Varma, R.S., Huh, Y., Ebrahimi Warkiani, M. and **Rabiee, N.***, **2024**. Integration of MXene and Microfluidics: A Perspective. **ACS biomaterials science & engineering**.

18. Jafarzadeh, S., Golgoli, M., Azizi-Lalabadi, M., Farahbakhsh, J., Forough, M., **Rabiee, N**. and Zargar, M., **2024**. Enhanced carbohydrate-based plastic performance by incorporating cerium-based metal-organic framework for food packaging application. **International journal of biological macromolecules**, 265, p.130899.

19. Lima, E.C., Ponce-Vargas, M., Naushad, M., Thue, P.S., dos Reis, G.S., Mello, B.L., **Rabiee, N**., Abatal, M., Seliem, M.K. and Badawi, M., **2024**. Removal of methylparaben from aqueous effluents using biobased carbon material. Experimental and DFT calculations. **Journal of molecular liquids**, 397, p.124194.

20. Safarkhani, M., Ojaghi, A., Nezhad, S.M., Daneshgar, H., Paiva-Santos, A.C., Radmanesh, F., Bagherzadeh, M., Zare, E.N., **Rabiee, N**.* and Makvandi, P., **2024**. Engineered (NH2)-MIL-125 (Ti)/copolymer@ MnFe2O4 nanocomposite for synergistic eradication of cancer cells via DOX/pCRISPR delivery. **Advanced Composites and Hybrid Materials**, 7(1), p.18.

21. Mikaeeli Kangarshahi, B., Naghib, S.M. and **Rabiee, N.*, 2024**. DNA/RNA-based electrochemical nanobiosensors for early detection of cancers. **Critical reviews in clinical laboratory sciences**, pp.1-23.

22. Bagherzadeh, M., Salehi, G. and **Rabiee, N**., **2024**. Rapid and efficient removal of methylene blue dye from aqueous solutions using extract-modified Zn–Al LDH. **Chemosphere**, 350, p.141011.

23. Farzin, M.A., Naghib, S.M. and **Rabiee, N**.*, **2024**. Advancements in Bio-inspired Self-Powered Wireless Sensors: Materials, Mechanisms, and Biomedical Applications. **ACS Biomaterials Science & Engineering**.

24. Nodehi, M., Zirak, M., Reiser, O., Alehdaghi, H., Kazemi, M., Koshki, M.S., **Rabiee, N.** and Baghayeri, M., **2024**. Pushing Back the Detection Limit for Photoelectrochemical Sensing of Bisphenol A by Using a Readily Available and Ultrastable BiVO4/ITO Electrode. **ACS Applied Engineering Materials**.

25. Khodadadi Yazdi, M., Seidi, F., Hejna, A., Zarrintaj, P., **Rabiee, N**., Kucinska-Lipka, J., Saeb, M.R. and Bencherif, S.A., **2024**. Tailor-Made Polysaccharides for Biomedical Applications. **ACS Applied Bio Materials**.

26. Gao, W., Bigham, A., Ghomi, M., Zarrabi, A., **Rabiee, N**., Saeb, M.R., Ertas, Y.N., Goel, A., Sharifi, E., Ashrafizadeh, M. and Sethi, G., **2024**. Micelle-engineered nanoplatforms for precision oncology. **Chemical Engineering Journal**, p.153438.

27. Daneshgar, H., Sojdeh, S., Salehi, G., Edrisi, M., Bagherzadeh, M. and **Rabiee, N**.*, **2024**. Comparative study of synthesis methods and pH-dependent adsorption of methylene blue dye on UiO-66 and NH2-UiO-66. **Chemosphere**, 353, p.141543.

28. Farzin, M.A., Naghib, S.M. and **Rabiee, N.*, 2024**. Bio-inspired and biomimetic composites based on biodegradable polymers for sensing applications with emphasis on early diagnosis of cancer. **Chemical Engineering Journal**, p.152445.

29. Makurat-Kasprolewicz, B., Ipakchi, H., Rajaee, P., Ossowska, A., Hejna, A., Farokhi, M., Mottaghitalab, F., Pawlak, M., **Rabiee, N**., Belka, M. and Bączek, T., **2024**. Green engineered biomaterials for bone repair and regeneration: Printing technologies and fracture analysis. **Chemical Engineering Journal**, p.152703.

30. Khorsandi, D., Jenson, S., Zarepour, A., Khosravi, A., **Rabiee, N.*,** Iravani, S. and Zarrabi, A., **2024**. Catalytic and biomedical applications of nanocelluloses: A review of recent developments. **International Journal of Biological Macromolecules**, p.131829.

31. Niazvand, F., Sharifianjazi, F., Esmaeilkhanian, A., Ahmadi, E., Moradigharibvand, N., **Rabiee, N.,** Seifalian, A., Ghiasvand, A. and Hojjati, M., **2024**. Sol-gel derived bioactive glasses containing boron and strontium: Bioactivity, biocompatibility, and antibacterial properties. **Journal of Non-Crystalline Solids**, 631, p.122909.

32. Safarkhani, M., Saeb, M.R., Lee, J.H., Huh, Y.S. and **Rabiee, N.*, 2024**. Carbon-based nanomaterials for CRISPR/Cas delivery: a perspective on the design approach. **Carbon Letters**, 34(1), pp.387-397.

33. Zarepour, A., Rafati, N., Khosravi, A., **Rabiee, N.,** Iravani, S. and Zarrabi, A., **2024**. MXene-based composites in smart wound healing and dressings. **Nanoscale Advances**.

34. Wang, Z., Pang, S., Liu, X., Dong, Z., Tian, Y., Ashrafizadeh, M., **Rabiee, N.,** Ertas, Y.N. and Mao, Y., **2024**. Chitosan-and hyaluronic acid-based nanoarchitectures in phototherapy: Combination cancer chemotherapy, immunotherapy and gene therapy. **International Journal of Biological Macromolecules**, p.132579.

35. Khanzada, A.K., Al-Hazmi, H.E., Kurniawan, T.A., Majtacz, J., Piechota, G., Kumar, G., Ezzati, P., Saeb, M.R., **Rabiee, N.,** Karimi-Maleh, H. and Lima, E., **2024**. Hydrochars as a bio-based adsorbent for heavy metals removal: A review of production processes, adsorption mechanisms, kinetic models, regeneration and reusability of hydrochar. **Science of The Total Environment**, p.173972.

36. Albaseer, S.S., Al-Hazmi, H.E., Kurniawan, T.A., Xu, X., Abdulrahman, S.A., Ezzati, P., Habibzadeh, S., Hollert, H., **Rabiee, N**., Lima, E.C. and Badawi, M., **2024**. Microplastics in water resources: Global pollution circle, possible technological solutions, legislations, and future horizon. **Science of The Total Environment**, p.173963.

37. Yildiz, S.N., Entezari, M., Paskeh, M.D.A., Mirzaei, S., Kalbasi, A., Zabolian, A., Hashemi, F., Hushmandi, K., Hashemi, M., Raei, M. and **Rabiee, N.*, 2024**. Nanoliposomes as nonviral vectors in cancer gene therapy. **MedComm**, 5(7), p.e583.

38. Jin, X., Heidari, G., Nezhad, S.M., Shao, M., Hua, Z., Lei, Y., Zare, E.N., Paiva-Santos, A.C., Sillanpää, M., Prakash, C. and **Rabiee, N**., **2024**. Progress in translating bioinorganic nanoplatform discoveries into clinical lung cancer care: Overcoming limitations, targeted drug delivery and imaging. **Alexandria Engineering Journal**, 99, pp.271-281.

39. Jafarzadeh, S., Nooshkam, M., Qazanfarzadeh, Z., Oladzadabbasabadi, N., Strachowski, P., **Rabiee, N**., Shirvanimoghaddam, K., Abdollahi, M. and Naebe, M., **2024**. Unlocking the potential of 2D nanomaterials for sustainable intelligent packaging. **Chemical Engineering Journal**, 490, p.151711.

2023

40. Rabiee, N.*, Sharma, R., Foorginezhad, S., Jouyandeh, M., Asadnia, M., Rabiee, M., Akhavan, O., Lima, E.C., Formela, K., Ashrafizadeh, M. and Fallah, Z., **2023**. Green (Nano) membranes: A review. **Environmental research**, p.116133.

41. Rabiee, N.*, 2023. Natural components as surface engineering agents for CRISPR delivery. **Environmental research**, p.116333.

42. Rabiee, N.*, 2023. Sustainable metal-organic frameworks (MOFs) for drug delivery systems. **Materials Today Communications**, p.106244.

43. Rabiee, N.*, 2023. Artificial intelligence assisted with designing metal-organic frameworks (MOFs). **Clinical and Translational Discovery**, 3(3), p.e207.

44. Ghanbari, R., Zare, E.N., Paiva-Santos, A.C. and **Rabiee, N**.*, **2023**. Ti3C2Tx MXene@ MOF decorated polyvinylidene fluoride membrane for the remediation of heavy metals ions and desalination. **Chemosphere**, 311, p.137191. (**IF : 9.0; Citations: 1**)

45. Ahmadi, S., Warkiani, M.E., Rabiee, M., Iravani, S. and **Rabiee, N**.*, **2023**. Carbon-based nanomaterials against SARS-CoV-2: Therapeutic and diagnostic applications. **OpenNano**, 10, p.100121. (**Citescore : 21.0; Citations: 1**)

46. Far, B.F., Naimi-Jamal, M.R., Daneshgar, H. and **Rabiee, N**.*, **2023**. Co-delivery of doxorubicin/sorafenib by DNA-decorated green ZIF-67-based nanocarriers for chemotherapy and hepatocellular carcinoma treatment. **Environmental Research**, p.115589. (**IF : 8.5; Citations: 0**)

47. Fooladi, S., Nematollahi, M.H., **Rabiee, N.*** and Iravani, S., **2023**. Bacterial Cellulose-Based Materials: A Perspective on Cardiovascular Tissue Engineering Applications. **ACS Biomaterials Science & Engineering**, 9(6), pp.2949-2969.

48. Mohajer, F., Mirhosseini-Eshkevari, B., Ahmadi, S., Ghasemzadeh, M.A., Mohammadi Ziarani, G., Badiei, A., Farshidfar, N., Varma, R.S., **Rabiee, N.*** and Iravani, S., **2023**. Advanced Nanosystems for Cancer Therapeutics: A Review. **ACS Applied Nano Materials**, 6(9), pp.7123-7149.

49. Shao, M., Bigham, A., Yousefiasl, S., Yiu, C.K., Girish, Y.R., Ghomi, M., Sharifi, E., Sezen, S., Zarrabi, A., **Rabiee, N**. and Paiva-Santos, A.C., 2023. Recapitulating Antioxidant and Antibacterial Compounds into a Package for Tissue Regeneration: Dual Function Materials with Synergistic Effect. **Small**, pp.e2207057-e2207057. (**IF : 22.0; Citations: 1**)

50. Sharifi, E., Yousefiasl, S., Trovato, M., Sartorius, R., Esmaeili, Y., Goodarzi, H., Ghomi, M., Bigham, A., Moghaddam, F.D., Heidarifard, M. and **Rabiee, N., 2023**. Nanostructures for prevention, diagnosis, and treatment of viral respiratory infections: from influenza virus to SARS-CoV-2 variants. **Journal of Nanobiotechnology**, 21(1), p.199.

51. Lakhera, S.K., Rugma, T.P., Krishna, B.R., **Rabiee, N**. and Neppolian, B., 2023. Pivotal role of oxygen during the synthesis of Cu (OH) 2/TiO2 and its effect on photocatalytic hydrogen production activity. **Catalysis Today**. (**IF : 6.0; Citations: 1**)

52. Makvandi, P., Shabani, M., **Rabiee, N**., Anjani, Q.K., Maleki, A., Zare, E.N., Sabri, A.H.B., De Pasquale, D., Koskinopoulou, M., Sharifi, E. and Sartorius, R., 2023. Engineering and Development of a Tissue Model for the Evaluation of Microneedle Penetration Ability, Drug Diffusion, Photothermal Activity, and Ultrasound Imaging: A Promising Surrogate to ex vivo and in vivo Tissues. **Advanced Materials**, p.2210034. (**IF : 32.0; Citations: 1**)

53. Sharifi, E., Yousefiasl, S., Laderian, N., **Rabiee, N**., Makvandi, P., Pourmotabed, S., Ashrafizadeh, M., Familsattarian, F. and Fang, W., **2023**. Cell-loaded genipin cross-linked collagen/gelatin skin substitute adorned with zinc-doped bioactive glass-ceramic for cutaneous wound regeneration. **International Journal of Biological Macromolecules**, p.125898.

54. Rahimnejad, M., Jahangiri, S., Zirak Hassan Kiadeh, S., Rezvaninejad, S., Ahmadi, Z., Ahmadi, S., Safarkhani, M. and **Rabiee, N.*, 2023**. Stimuli-responsive biomaterials: smart avenue toward 4D bioprinting. **Critical Reviews in Biotechnology**, pp.1-32.

55. Sojdeh, S., Banitalebi Dehkordi, A., Badiei, A., Zarrabi, A., Makvandi, P., Ashrafizadeh, M., Saeb, M.R., Lima, E.C., Rabiee, M., Asadnia, M., Webster, T.J. and **Rabiee, N.***, **2023**. N-doped carbon nanospheres as selective fluorescent probes for mercury detection in contaminated aqueous media: chemistry, fluorescence probing, cell line patterning, and liver tissue interaction. **Environmental Science and Pollution Research**, pp.1-13. (**IF : 5.3; Citations: 0**)

56. Makvandi, P., Song, H., Yiu, C.K., Sartorius, R., Zare, E.N., **Rabiee, N**., Wu, W.X., Paiva-Santos, A.C., Wang, X.D., Yu, C.Z. and Tay, F.R., **2023**. Bioengineered materials with selective antimicrobial toxicity in biomedicine. **Military Medical Research**, 10(1), pp.1-20. (**IF : 33.4; Citations: 0**)

57. Mehrabian, M., Akhavan, O., **Rabiee, N**., Afshar, E.N. and Zare, E.N., 2023. Lead-free MAGeI3 as a suitable alternative for MAPbI3 in nanostructured perovskite solar cells: a simulation study. **Environmental Science and Pollution Research**, pp.1-9. (**IF : 5.3; Citations: 0**)

58. Zarrintaj, P., Seidi, F., Azarfam, M.Y., Yazdi, M.K., Erfani, A., Barani, M., Chauhan, N.P.S., **Rabiee, N**., Kuang, T., Kucinska-Lipka, J. and Saeb, M.R., 2023. Biopolymer-based composites for tissue engineering applications. **Composites Part B: Engineering**, p.110701. **(IF : 11.3; Citations: 0**)

59. Ashrafizadeh, M., Zarrabi, A., Bigham, A., Taheriazam, A., Saghari, Y., Mirzaei, S., Hashemi, M., Hushmandi, K., Karimi-Maleh, H., Nazarzadeh Zare, E. and **Rabiee, N., 2023**. (Nano) platforms in breast cancer therapy: Drug/gene delivery, advanced nanocarriers and immunotherapy. **Medicinal Research Reviews**.

60. Peng, H., Zhang, J., Zhang, Z., Turdi, S., Han, X., Liu, Q., Hu, H., Ye, H., Dong, M., Duan, Y. and **Rabiee, N., 2023**. Cardiac-specific overexpression of catalase attenuates lipopolysaccharide-induced cardiac anomalies through reconciliation of autophagy and ferroptosis. **Life Sciences**, p.121821.

61. Khanmohammadi, S., Saeedi Moghaddam, S., Azadnajafabad, S., Rezaei, N., Esfahani, Z., Rezaei, N., **Rabiee, N**., Larijani, B., Farzadfar, F., Moghaddam, S.S. and Abbasi-Kangevari, Z., **2023**. Burden of tracheal, bronchus, and lung cancer in North Africa and Middle East countries, 1990 to 2019: Results from the GBD study 2019. **Frontiers in Oncology**, 12, p.1098218.

62. Al-Hazmi, H.E., Kot-Wasik, A., Shokrani, A., Majtacz, J., Vatanpour, V., Munir, M.T., Habibzadeh, S., Hejna, A., Hasanpour, M., Mohammadi, A. and **Rabiee, N.*, 2023**. Diving boldly into COVID-19 contaminated wastewater: Eyes at nanotechnology-assisted solutions. **Clinical and Translational Discovery**, 3(3), p.e195.

63. Ahmadi, S., Rahimizadeh, K., Shafiee, A., **Rabiee, N.*** and Iravani, S., **2023**. Nanozymes and their emerging applications in biomedicine. **Process Biochemistry**.

64. Zarepour, A., Ahmadi, S., **Rabiee, N.*,** Zarrabi, A. and Iravani, S., **2023**. Self-Healing MXene-and Graphene-Based Composites: Properties and Applications. **Nano-micro letters**, 15(1), p.100.

65. Wiśniewska, P., Haponiuk, J., Saeb, M.R., **Rabiee, N.*** and Bencherif, S.A., **2023**. Mitigating Metal-organic framework (MOF) toxicity for biomedical applications. **Chemical Engineering Journal**, p.144400.

66. Ghomi, M., Zare, E.N., Alidadi, H., Pourreza, N., Sheini, A., **Rabiee, N.,** Mattoli, V., Chen, X. and Makvandi, P., **2023**. A multifunctional bioresponsive and fluorescent active nanogel composite for breast cancer therapy and bioimaging. **Advanced Composites and Hybrid Materials**, 6(1), p.51.

67. Teixeira, R.A., Lima, E.C., Benetti, A.D., Naushad, M., Thue, P.S., Mello, B.L., Dos Reis, G.S., **Rabiee, N.,** Franco, D. and Seliem, M.K., **2023**. Employ a Clay@ TMSPDETA hybrid material as an adsorbent to remove textile dyes from wastewater effluents. **Environmental Science and Pollution Research**, pp.1-15.

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285. **Rabiee, N**. and Rabiee, M., **2018**. Magnetic Stimuli-Responsive Cobalt Ferrite Nanoparticle as Theranostic agents for Targeted Delivery. **Current Nanomaterials**, 3(3), pp.160-167.

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BOOK CHAPTERS:

1. Bakhshi, A., Naghib, S.M. and **Rabiee, N., 2024**. Antibacterial and Antiviral Nanofibrous Membranes. In Antibacterial and Antiviral Functional Materials, Volume 2 (pp. 47-88). **American Chemical Society**.

2. **Rabiee, N**.*, **2025**. Green Biomaterials in Biomedical Applications: A Focus on CRISPR. In Green Biomaterials in Tissue Engineering (pp. 371-382). **American Chemical Society**.

3. Ahmadi, S., Fatahi, Y., Safarkhani, M., Rabiee, M., Warkiani, M.E. and **Rabiee, N.*, 2023**. Electric-Responsive Materials: Properties, Design, and Applications. In Stimuli-Responsive Materials for Biomedical Applications (pp. 31-52). **American Chemical Society.**

4. Ahmadi, S. and **Rabiee, N.*, 2023**. Antimicrobial Properties. In Electrically Conducting Polymers and Their Composites for Tissue Engineering (pp. 81-94). **American Chemical Society**.

5. **Rabiee, N.*,** Ahmadi, S., Ghadiri, A.M., Rabiee, M. and Webster, T.J., **2023**. Nanomaterials obtained from biowastes: Applications for cancer therapy. In Nanomedicine (pp. 469-482). **Woodhead Publishing**.

6. Jouyandeh, M., Vahabi, H., Laoutid, F., **Rabiee, N.** and Saeb, M.R., **2021**. Flame Retardancy of Recycled Polymer Composites. In *Recycling of Plastics, Metals, and Their Composites* (pp. 197-219). **CRC Press**.

7. Maghsoudi, S., **Rabiee, N**., Ahmadi, S., Rabiee, M., Bagherzadeh, M. and Karimi, M., **2020**. An overview of microfluidic devices. *Biomedical Applications of Microfluidic Devices*. **Academic Press**.

8. Hosseini, M., **Rabiee, N**. and Bagherzadeh, M., **2020**. Targeted delivery of nucleic acids using microfluidic systems. In *Biomedical Applications of Microfluidic Devices* (pp. 289-318). **Academic Press**.

9. Aghamiri, S., **Rabiee, N**., Ahmadi, S., Rabiee, M., Bagherzadeh, M. and Karimi, M., **2020**. Microfluidics: Organ-on-a-chip. In *Biomedical Applications of Microfluidic Devices* (pp. 99-115). **Academic Press**.

10. Aghamiri, S., **Rabiee, N**., Ahmadi, S., Rabiee, M., Bagherzadeh, M. and Karimi, M., **2020**. Microfluidic devices: Synthetic approaches. In *Biomedical Applications of Microfluidic Devices* (pp. 23-36). **Academic Press**.

11. Rabiee, M., Rostami, A., **Rabiee, N**. and Bagherzadeh, M., **2020**. Microarray technologies. In *Biomedical Applications of Microfluidic Devices* (pp. 77-98). **Academic Press**.

12. Rabiee, M., Ghasemnia, N.N., **Rabiee, N**. and Bagherzadeh, M., **2020**. Microfluidic devices and drug delivery systems. In *Biomedical Applications of Microfluidic Devices* (pp. 153-186). **Academic Press**.

13. Ahmadi, S., **Rabiee, N**., Bagherzadeh, M. and Karimi, M., **2020**. Microfluidic devices for gene delivery systems. In *Biomedical Applications of Microfluidic Devices* (pp. 187-208). **Academic Press**.

14. Ahmadi, S., **Rabiee, N**., Bagherzadeh, M. and Karimi, M., **2020**. Microfluidic devices for pathogen detection. In *Biomedical Applications of Microfluidic Devices* (pp. 117-151). **Academic Press**.

FUNDINGS:

2021-2024 NRF, Korea
Metal-organic frameworks (MOFs)-based wearable biosensors for detection of ssDNA
Role: Co-PI

2022-2025 KRF in collaborations with SpaceX, and USA
Development of fully biocompatible porous inorganic nano-platform for investigating the drug-gene interactions in different environments
Role: PI

2021- 2022 Shahid Beheshti University of Medical Sciences (SBMU)
Design, synthesis, and characterization of nanocomposites based on metal-organic frameworks and porphyrins with the aim of *in vitro* optimizations in smart and targeted delivery of doxorubicin; Role: PI

2021- 2022 Shahid Beheshti University of Medical Sciences (SBMU)
Design, synthesis and characterization of biocompatible nanocomposite based on UiO-66 and MXene with low cytotoxicity as a bioactive molecules nanocarrier with the ability of cellular internalization; Role: PI

2021- 2022 Shahid Beheshti University of Medical Sciences (SBMU)
Design, synthesis, and characterization of nanocomposites based on Zirconium-based-metal-organic frameworks for corona virus detection and inhibition; Role: PI

2021- 2022 Shahid Beheshti University of Medical Sciences (SBMU)
Design, synthesis, and characterization of Benzamide-like derivative decorated UiO-66-NH 2 as a versatile multifunctional nano-bioplatform: *in vitro* studies; Role: PI

INDUSTRIAL/CLINICAL EXPERIENCES:

1. **Development of novel inorganic-based nanocarriers (based on rGO/MWCNT/Fe_3O_4/ZnO) for chemotherapy**
2. **Development of bioactive Ti_3C_2-based nanocomposite for chemotherapy**
3. **Green synthesis of metal oxide nanoparticles from biowastes and pathogens, viruses and bacteria**
4. **Green synthesis of MOFs in reduced temperature and time of reaction**

5. **Development of high-gravity system based on rotating packed bed system for cost-effective and highly efficient synthesis of MOFs, COFs, NPs, LDHs and nanocomposites**
6. **Development of cost-effective and green wearable multi-functional biosensor for trace-concentrations detections of cancer biomarkers**
7. **Development of cost-effective and green wearable multi-functional biosensor for trace-concentrations detections of glucose**
8. **Development of cost-effective and green wearable multi-functional biosensor for trace-concentrations detections of hazardous cations**

FELLOWSHIPS/PRIZES:

- CLS Fellowship, China, 2025
- Saramadan Fellowship, Iran, 2023
- Rising Talent List of the Precision Nanomedicine, 2023
- BK21 Fellowship, South Korea, 2022
- Saramadan Fellowship, Iran, 2022

SCIENTIFIC ORGANIZATIONS:

- Iranian Chemical Society, 2019- now
- American Chemical Society, 2020- now
- Royal Society of Chemistry, 2020- now
- Iranian Ceramic Society, 2019- now
- Korean Chemical Society, 2022-now
- The Korean Society for Biotechnology and Bioengineering, 2022-now
- American Biomedical Engineering Society, 2022-now

PROFESSIONAL ROLES:

Reviewer for journals:

- ACS Nano
- ACS Applied Materials & Interfaces
- ACS Sustainable Chemistry & Engineering
- Bioactive Materials
- Composites Part B: Engineering
- Science Progress
- Materials Today Communication
- Frontiers in Medicine
- Plos One

- Journal of the American Chemical Society (JACS)
- ACS Omega
- ACS Sensors
- OpenNano
- Nano Express
- Express Polymer Letter
- Iranian Polymer Journal
- IEEE Journal of Biomedical and Health Informatics
- Polymers from Renewable Resources
- Materials Chemistry Horizons
- Industrial & Engineering Chemistry Research
- Pharmacological Research
- Clinical Epidemiology
- Recent Progress in Materials
- Journal of Food Science
- Microporous and Mesoporous Materials
- Veterinary Sciences
- Journal of Photochemistry and Photobiology A: Chemistry
- Energies
- Science of The Total Environment
- International Journal of Nanomedicine
- Photochemistry & Photobiology
- BMC Biotechnology
- BMC Biomedical Engineering
- IET Image Processing
- Drug Design, Development & Therapy
- Vaccine
- Journal of Translational Internal Medicine
- Clinical Nutrition ESPEN
- Analytica Chimica Acta
- Expert Opinion on Drug Delivery
- Cancers
- Polymers
- Pharmaceutics
- Journal of Composites Science
- Pathology Research and Practice
- Nanomaterials
- Journal of Industrial and Engineering Chemistry
- European Polymer Journal
- IET Nanobiotechnology
- World Journal of Surgical Oncology
- Frontiers in Physiology
- Polymer Testing
- Colloids and Surfaces A: Physicochemical and Engineering Aspects
- Journal of Materials Research and Technology
- International Journal of Molecular Sciences
- Biomedicines
- Acta Biomaterialia
- Sensors and Actuators A: Physical
- Coatings
- Polymer Engineering & Science
- Electronics
- Diagnostics
- Materials
- Chemosphere
- Biosensors
- Preparative Biochemistry and Biotechnology

Editorial for journals:

- Associate Editor of Polymers from Renewable Resources (SAGE- UK)
- Editorial Board of BMC Biotechnology (Springer Nature)
- Editorial Board of Journal of Ionic Liquids (Elsevier)
- Editorial Board of OpenNano (Elsevier)
- Editorial Board of BMC Biomedical Engineering (Springer Nature)
- Editorial Board of Inorganics (MDPI)
- Editorial Board of Biomedicines (MDPI)
- Editorial Board of iMeta (Wiley)
- Guest Editor of Inorganics (MDPI)
- Guest Editor of Biosensors (MDPI)
- Guest Editor of Sensors (MDPI)
- Guest Editor of Molecules (MDPI)
- Guest Editor of Environmental Research (Elsevier)
- Guest Editor of Cellular Signaling (Elsevier)
- Member of the Rising Talent List of the Precision Nanomedicine

SKILLS AND ABILITIES:

- Skilled in cell and tissue culture methods, flow cytometric analysis, immunostaining and various other cell and molecular biology techniques
- Skilled in design, synthesis and characterization of different nanoparticles, nanocomposites and nanomaterials such as metallic nanoparticles, metal oxide nanoparticles, metal-organic frameworks (MOF), covalent organic frameworks (COF), zeolites, MXene, organometallic complexes, carbon-based nanocomposites, polymeric nanostructures, hydrogels, nanobeads and etc.
- Skilled in developing and scale-up cutting-edge research for industrial/clinical usage/applications
- Skilled in writing grants and communicating with industries/clinics
- Skilled in pre-clinical, *in vivo* (modelling, injection, surgery, H&E, and analysis) and whole *in vitro* tests
- Skilled in the analysis of results and working with FESEM, XRD, AFM, XPS, TEM, FTIR, MTT, GC, GC-MASS, HPLC, ICP, Contact Angle and etc.
- Excellent oral and written communication skills in English and Farsi