



Ebrahim Mostafavi

Postdoctoral Scholar, Cardiovascular Institute

Bio

HONORS AND AWARDS

- Cardiovascular Imaging NIH T32 Postdoctoral Fellowship, National Institute of Biomedical Imaging and Bioengineering (NHLBI) (February 2021- Present)
- Outstanding Graduate Student Award for Research in Life Sciences, Physical Sciences, and Engineering, Northeastern University (April 2020)
- Most First-author Peer-reviewed Journal Publications Award in 2019, College of Engineering, Northeastern University (April 2020)
- Most Cited Publications Award in 2019, College of Engineering, Northeastern University (April 2020)
- DCF Fellowship Award, College of Engineering, Northeastern University (April 2020)
- Best poster award (1st place), PhD poster competition @National Engineers Week, College of Engineering, Northeastern University (February 2020)
- Travel Award for 2019 AIChE Annual Meeting, "Nanoengineering of an Electroconductive Cardiac Patch", American Institute of Chemical Engineers (AIChE), Orlando, FL (2019)
- Outstanding Reviewer Certificate, Elsevier Publisher (August 2018)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Associate Editor-in-Chief, Open Nano- Elsevier (CiteScore=21.90, Q1) (2022 - present)
- Associate Editor-in-Chief, International Journal of Nanomedicine (IJN), Dove Medical Press/ T&F (IF=7.033, Q1) (2020 - present)
- Associate Editor, Environmental Chemistry Letters- Springer (IF=13.615, Q1) (2022 - present)
- Academic Editor-in-Chief, The Innovation- Cell Press (2021 - present)
- Editorial Board, Nature Scientific Reports (2021 - present)
- Associate Editor, Frontiers in Nanotechnology- Biomedical Nanotechnology (2021 - present)
- Editorial Board, BMC Biotechnology- Springer Nature (2021 - present)
- Editorial Board, Journal of Functional Biomaterials- MDPI (2021 - present)
- Editorial Board, Cells - MDPI (2021 - present)
- Editorial Board, Pharmaceutical Patent Analyst- Future Medicine (2022 - present)
- Editorial Board, Journal of Nanostructure in Chemistry, Springer Nature (2021 - present)
- Editorial Board, Frontiers of Materials Science- Springer (2022 - present)
- Editorial Board, MedComm: Biomaterials and Application - Wiley (2022 - present)
- Editorial Board, Ibrain- Wiley (2022 - present)
- Special Issue Editor "The Cell Biology and Immunology of Wound Healing", Cells - MDPI (Q1, IF=7.66) (2022 - present)
- Session Chair- Cardiovascular Tissue Engineering, Biomedical Engineering Society (BMES)- 2021, Orlando, Florida (2021 - present)
- Editorial Board, BMC Biomedical Engineering- Springer Nature (2021 - present)

- Editorial Board, AIMS Bioengineering- AIMS Press (2022 - present)
- Editorial Board, AIMS Biophysics- AIMS Press (2022 - present)
- Special Issue Editor, "3D Printing in Heart and Cardiovascular Disease", Reviews in Cardiovascular Medicine (2021 - present)
- Review Editor for Pharmacology of Anti Cancer Drugs, Frontiers in Pharmacology (2021 - present)
- Review Editor for Pharmacology of Anti Cancer Drugs, Frontiers in Oncology (2021 - present)
- Review Editor for Dermatology, Frontiers in Medicine- Frontiers (2022 - present)
- Editorial Board, Springer Nature, Materials Horizons: From Nature to Nanomaterials (2021 - present)
- Editorial Board, Biomaterials and Polymers Horizon (2021 - present)
- Special Issue Editor, "Emerging Nanotechnology Enabled Theragnostic Approaches in Malignancies and Microbial Infections", International Journal of Molecular Sciences (IJMS), MDPI (2021 - present)
- Topic Editor, International Journal of Molecular Sciences (IJMS), MDPI (2021 - present)
- Special Issue Editor, "Nanoengineered Materials for Biomedical Applications", Journal of Functional Biomaterials, MDPI (2021 - present)
- Editorial Board, Journal of Stem Cell Research & Therapy (2021 - present)
- Editorial Board, Longhua Chinese Medicine (LCM) - AME Publisher (2022 - present)
- Special Issue Guest Editor, "Nanobiosensors: From Fabrication to Diagnostic, Therapeutic, and Theragnostic Applications", Sensors, MDPI (2021 - present)
- Topic Editor, Processes, MDPI (2021 - present)
- Editorial Board, Annals of Materials Science & Engineering, Austin Publishing Group (2021 - present)
- Guest Editor, Special Issue "Molecular and Cellular Nanobiotechnology", BIOCELL (2021 - present)
- Member & subcommittee of Nanoneuroscience/nanomedicine, Society for Brain Mapping and Therapeutics (SBMT) (2020 - present)
- Editorial Board, Journal of Regenerative Biology and Medicine (2020 - present)
- Editorial Board, Journal of Next Generation Sequencing & Applications (2020 - present)

PROFESSIONAL EDUCATION

- PhD, Northeastern University , Chemical Engineering (in Aspects of Biomedical Engineering and Biotechnology) (2020)
- MSc, University of Tehran , Materials Science and Engineering (2013)
- BSc, University of Tehran , Materials Science and Engineering (2011)

STANFORD ADVISORS

- Joseph Wu, Postdoctoral Faculty Sponsor

LINKS

- Google Scholar Profile: <https://scholar.google.com/citations?user=TTABXRcAAAAJ&hl=en>
- ResearchGate: https://www.researchgate.net/profile/Ebrahim_Mostafavi
- Publons: <https://publons.com/researcher/3095034/ebrahim-mostafavi/>
- ORCID: <https://orcid.org/0000-0003-3958-5002>
- LinkedIn: <https://www.linkedin.com/in/ebrahim-mostafavi-phd-04915952/>
- Twitter: <https://twitter.com/ebimostafavi>
- Facebook: <https://www.facebook.com/ebrahim.mostafavi/>
- Joe Wu Lab: <http://med.stanford.edu/wulab/people.html>
- Frontiers: <https://loop.frontiersin.org/people/970335/overview>

Publications

PUBLICATIONS

- **Engineered hyaluronic acid-decorated niosomal nanoparticles for controlled and targeted delivery of epirubicin to treat breast cancer.** *Materials today. Bio*
Mansoori-Kermani, A., Khalighi, S., Akbarzadeh, I., Niavol, F. R., Motasadizadeh, H., Mahdieh, A., Jahed, V., Abdinezhad, M., Rahbariasr, N., Hosseini, M., Ahmadkhani, N., Panahi, B., Fatahi, et al
2022; 16: 100349
- **Advanced bioengineering of female germ cells to preserve fertility.** *Biology of reproduction*
Ghorbani, S., Eyni, H., Norahan, M. H., Zarrintaj, P., Urban, N., Mohammadzadeh, A., Mostafavi, E., Sutherland, D. S.
2022
- **Nanotechnological Approaches in Prostate Cancer Therapy: Integration of engineering and biology** *NANO TODAY*
Ashrafizadeh, M., Aghamiri, S., Tan, S., Zarrabi, A., Sharifi, E., Rabiee, N., Kadumudi, F., Pirouz, A., Delfi, M., Byrappa, K., Thakur, V., Kumar, K., Girish, et al
2022; 45
- **Nanosponges: an overlooked promising strategy to combat SARS-CoV-2.** *Drug discovery today*
Mostafavi, E., Iravani, S., Varma, R. S.
2022
- **Population-level risks of alcohol consumption by amount, geography, age, sex, and year: a systematic analysis for the Global Burden of Disease Study 2020.** *Lancet (London, England)*
2022; 400 (10347): 185-235
- **Combination Therapy Using Nanomaterials and Stem Cells to Treat Spinal Cord Injuries.** *European journal of pharmaceutics and biopharmaceutics : official journal of Arbeitsgemeinschaft fur Pharmazeutische Verfahrenstechnik e.V*
Zarepour, A., Bal Ozturk, A., Koyuncu Irmak, D., Yasayan, G., Gokmen, A., Karaoz, E., Zarepour, A., Zarrabi, A., Mostafavi, E.
2022
- **"Cutting the Mustard" with Induced Pluripotent Stem Cells: An Overview and Applications in Healthcare Paradigm.** *Stem cell reviews and reports*
Behl, T., Kaur, I., Sehgal, A., Singh, S., Sharma, N., Chigurupati, S., Felemban, S. G., Alsubayiel, A. M., Iqbal, M. S., Bhatia, S., Al-Harrasi, A., Bungau, S., Mostafavi, et al
2022
- **Adolescent transport and unintentional injuries: a systematic analysis using the Global Burden of Disease Study 2019.** *The Lancet. Public health*
2022
- **Emerging role of exosomes in cancer progression and tumor microenvironment remodeling.** *Journal of hematology & oncology*
Paskeh, M. D., Entezari, M., Mirzaei, S., Zabolian, A., Saleki, H., Naghdi, M. J., Sabet, S., Khoshbakht, M. A., Hashemi, M., Hushmandi, K., Sethi, G., Zarrabi, A., Kumar, et al
2022; 15 (1): 83
- **pH-Responsive Chitosan-Adorned Niosome Nanocarriers for Co-Delivery of Drugs for Breast Cancer Therapy** *ACS APPLIED NANO MATERIALS*
Karimifard, S., Rezaei, N., Jamshidifar, E., Langeroodi, S., Abdihaji, M., Mansouri, A., Hosseini, M., Ahmadkhani, N., Rahmati, Z., Heydari, M., Vosough, M., Akbarzadeh, I., Mostafavi, et al
2022
- **Chitosan/calcium nanoparticles as advanced antimicrobial coating for paper documents.** *International journal of biological macromolecules*
Egil, A. C., Ozdemir, B., Gunduz, S. K., Alt#katoglu-Yapaoz, M., Budama-Kilinc, Y., Mostafavi, E.
2022
- **Eco-friendly synthesis of carbon nanotubes and their cancer theranostic applications.** *Materials advances*
Mostafavi, E., Iravani, S., Varma, R. S., Khatami, M., Rahbarizadeh, F.
2022; 3 (12): 4765-4782
- **Global, regional, and national burden of hepatitis B, 1990-2019: a systematic analysis for the Global Burden of Disease Study 2019.** *The lancet. Gastroenterology & hepatology*
2022

- **MXene-Graphene Composites: A Perspective on Biomedical Potentials.** *Nano-micro letters*
Mostafavi, E., Iravani, S.
2022; 14 (1): 130
- **Non-coding RNA-based regulation of inflammation.** *Seminars in immunology*
Ashrafizadeh, M., Zarrabi, A., Mostafavi, E., Aref, A. R., Sethi, G., Wang, L., Tergaonkar, V.
2022: 101606
- **Antineoplastic activity of biogenic silver and gold nanoparticles to combat leukemia: Beginning a new era in cancer theragnostic.** *Biotechnology reports (Amsterdam, Netherlands)*
Mostafavi, E., Zarepour, A., Barabadi, H., Zarrabi, A., Truong, L. B., Medina-Cruz, D.
2022; 34: e00714
- **Nanobiotechnological prospects of probiotic microflora: Synthesis, mechanism, and applications.** *The Science of the total environment*
Ghosh, S., Sarkar, B., Kaushik, A., Mostafavi, E.
2022: 156212
- **Eco-friendly synthesis of carbon nanotubes and their cancer theranostic applications** *MATERIALS ADVANCES*
Mostafavi, E., Iravani, S., Varma, R. S., Khatami, M., Rahbarizadeh, F.
2022
- **Nanotechnology-Assisted Metered-Dose Inhalers (MDIs) for High-Performance Pulmonary Drug Delivery Applications.** *Pharmaceutical research*
Kumar, R., Mehta, P., Shankar, K. R., Rajora, M. A., Mishra, Y. K., Mostafavi, E., Kaushik, A.
2022
- **Radiobiological effects of wound fluid on breast cancer cell lines and human-derived tumor spheroids in 2D and microfluidic culture.** *Scientific reports*
Jeibouei, S., Hojat, A., Mostafavi, E., Aref, A. R., Kalbasi, A., Niazi, V., Ajoudanian, M., Mohammadi, F., Saadati, F., Javadi, S. M., Shams, F., Moghaddam, M., Karami, et al
2022; 12 (1): 7668
- **Biodegradable functional macromolecules as promising scaffolds for cardiac tissue engineering** *POLYMERS FOR ADVANCED TECHNOLOGIES*
Saghebasl, S., Akbarzadeh, A., Gorabi, A., Nikzamir, N., SeyedSadjadi, M., Mostafavi, E.
2022
- **Bioengineering of green-synthesized silver nanoparticles: In vitro physicochemical, antibacterial, biofilm inhibitory, anticoagulant, and antioxidant performance.** *Talanta*
Talank, N., Morad, H., Barabadi, H., Mojab, F., Amidi, S., Kobarfard, F., Mahjoub, M. A., Jounaki, K., Mohammadi, N., Salehi, G., Ashrafizadeh, M., Mostafavi, E.
2022; 243: 123374
- **Two-Dimensional Nanomaterials beyond Graphene for Biomedical Applications.** *Journal of functional biomaterials*
Derakhshi, M., Daemi, S., Shahini, P., Habibzadeh, A., Mostafavi, E., Ashkarran, A. A.
2022; 13 (1)
- **SARS-CoV-2 Omicron variant: A next phase of the COVID-19 pandemic and a call to arms for system sciences and precision medicine** *MEDCOMM*
Mostafavi, E., Dubey, A., Teodori, L., Ramakrishna, S., Kaushik, A.
2022; 3 (1)
- **Possible Role of Wnt Signaling Pathway in Diabetic Retinopathy.** *Current drug targets*
Sheetu, Behl, T., Sehgal, A., Singh, S., Sharma, N., Bhatia, S., Al-Harassi, A., Bungau, S., Mostafavi, E.
2022
- **SARS-CoV-2 Omicron variant: A next phase of the COVID-19 pandemic and a call to arms for system sciences and precision medicine.** *MedComm*
Mostafavi, E., Dubey, A. K., Teodori, L., Ramakrishna, S., Kaushik, A.
2022; 3 (1): e119
- **Diabetes mortality and trends before 25 years of age: an analysis of the Global Burden of Disease Study 2019.** *The lancet. Diabetes & endocrinology*
2022; 10 (3): 177-192
- **Doxorubicin-loaded graphene oxide nanocomposites in cancer medicine: Stimuli-responsive carriers, co-delivery and suppressing resistance.** *Expert opinion on drug delivery*

Ashrafizadeh, M., Saebfar, H., Gholami, M. H., Hushmandi, K., Zabolian, A., Bikarannejad, P., Hashemi, M., Daneshi, S., Mirzaei, S., Sharifi, E., Kumar, A. P., Khan, H., Heydari Sheikh Hossein, et al
2022

- **Dynamics of Antimicrobial Peptide Encapsulation in Carbon Nanotubes: The Role of Hydroxylation.** *International journal of nanomedicine*
Zarghami Dehaghani, M., Yousefi, F., Seidi, F., Sajadi, S. M., Rabiee, N., Habibzadeh, S., Esmaeili, A., Hamed Mashhadzadeh, A., Spitas, C., Mostafavi, E., Saeb, M. R.
2022; 17: 125-136
- **Bioactive hybrid metal-organic framework (MOF)-based nanosensors for optical detection of recombinant SARS-CoV-2 spike antigen.** *The Science of the total environment*
Rabiee, N., Fatahi, Y., Ahmadi, S., Abbariki, N., Ojaghi, A., Rabiee, M., Radmanesh, F., Dinarvand, R., Bagherzadeh, M., Mostafavi, E., Ashrafizadeh, M., Makvandi, P., Lima, et al
2022: 153902
- **Nanobiomaterials for three-dimensional bioprinting** *Nanotechnology in Medicine and Biology*
Ghosh, S., Mostafavi, E., Thorat, N., Webster, T. J.
Elsevier.2022; 1: 1-24
- **Green nanotechnology in cardiovascular tissue engineering** *Tissue Engineering: Current Status and Challenges*
Benko, A., Truong, L. B., Medina-Cruz, D., Mostafavi, E., Cholula-Diaz, J. L., Webster, T. J.
Academic Press.2022; 1: 237-281
- **Cancer therapeutics with microbial nanotechnology-based approaches** *Handbook of Microbial Nanotechnology*
Truong, L. B., Medina Cruz, D., Barabadi, H., Vahidi, H., Mostafavi, E.
Academic Press.2022; 1: 17-43
- **Microbial nanotechnology–based approaches for wound healing and infection control** *Handbook of Microbial Nanotechnology*
Barabadi, H., Mostafavi, E., Truong, L. B., Medina Cruz, D., Vahidi, H., Mahjoub, M. A., Hosseini, O., Saravanan, M.
Academic Press.2022: 1-15
- **Strategies of surface engineering/modifications for reversing antibiotic resistance** *Emerging Nanomaterials and Nano-Based Drug Delivery Approaches to Combat Antimicrobial Resistance*
Derakhshi, M., Mostafavi, E., Ashkarran, A. A.
Elsevier.2022; 1: 35-56
- **Biogenic metal nanomaterials to combat antimicrobial resistance** *Emerging Nanomaterials and Nano-Based Drug Delivery Approaches to Combat Antimicrobial Resistance*
Truong, L. B., Medina-Cruz, D., Mostafavi, E., et al
Elsevier.2022; 1: 261-304
- **Nano-targeted drug delivery approaches for viral infections** *Emerging Nanomaterials and Nano-Based Drug Delivery Approaches to Combat Antimicrobial Resistance*
Gebrecherkos, T., Asmelash, T., Barabadi, H., Mostafavi, E., Saravanan, M.
Elsevier.2022; 1: 233-260
- **Emerging Nanomaterials and Nano-Based Drug Delivery Approaches to Combat Antimicrobial Resistance**
edited by Saravanan, M., Barabadi, H., Mostafavi, E., Webster, T. J.
Elsevier.2022
- **Exosomes as Promising Nanostructures in Diabetes Mellitus: From Insulin Sensitivity to Ameliorating Diabetic Complications.** *International journal of nanomedicine*
Ashrafizadeh, M., Kumar, A. P., Aref, A. R., Zarrabi, A., Mostafavi, E.
2022; 17: 1229-1253
- **Folic Acid-Decorated pH-Responsive Nanoniosomes With Enhanced Endocytosis for Breast Cancer Therapy: In Vitro Studies.** *Frontiers in pharmacology*
Rezaei, T., Rezaei, M., Karimifard, S., Mahmoudi Beram, F., Dakkali, M. S., Heydari, M., Afshari-Behbahanizadeh, S., Mostafavi, E., Bokov, D. O., Ansari, M. J., Farasati Far, B., Akbarzadeh, I., Chaiyasut, et al
2022; 13: 851242
- **Green nanotechnology in cardiovascular tissue engineering** *Tissue Engineering*

Benko, A., Truong, L., Medina-Cruz, D., Mostafavi, E., Cholula-Díaz, J., Webster, T.
Academic Press.2022: 237-281

- **The global burden of adolescent and young adult cancer in 2019: a systematic analysis for the Global Burden of Disease Study 2019.** *The Lancet. Oncology* 2022; 23 (1): 27-52
- **Dynamics of Antimicrobial Peptide Encapsulation in Carbon Nanotubes: The Role of Hydroxylation** *INTERNATIONAL JOURNAL OF NANOMEDICINE* Dehaghani, M., Yousefi, F., Seidi, F., Sajadi, S., Rabiee, N., Habibzadeh, S., Esmaceli, A., Mashhadzadeh, A., Spitas, C., Mostafavi, E., Saeb, M. 2022; 17: 125-136
- **How Advancing are Mesoporous Silica Nanoparticles? A Comprehensive Review of the Literature.** *International journal of nanomedicine* Porrang, S., Davaran, S., Rahemi, N., Allahyari, S., Mostafavi, E. 2022; 17: 1803-1827
- **Polylysine for skin regeneration: A review of recent advances and future perspectives.** *Bioengineering & translational medicine* Zarrintaj, P., Ghorbani, S., Barani, M., Singh Chauhan, N. P., Khodadadi Yazdi, M., Saeb, M. R., Ramsey, J. D., Hamblin, M. R., Mozafari, M., Mostafavi, E. 2022; 7 (1): e10261
- **Polylactic Acid Piezo-Biopolymers: Chemistry, Structural Evolution, Fabrication Methods, and Tissue Engineering Applications.** *Journal of functional biomaterials* Farahani, A., Zarei-Hanzaki, A., Abedi, H. R., Tayebi, L., Mostafavi, E. 1800; 12 (4)
- **Porphyrin Molecules Decorated on Metal-Organic Frameworks for Multi-Functional Biomedical Applications.** *Biomolecules* Rabiee, N., Rabiee, M., Sojodeh, S., Fatahi, Y., Dinarvand, R., Safarkhani, M., Ahmadi, S., Daneshgar, H., Radmanesh, F., Maghsoudi, S., Bagherzadeh, M., Varma, R. S., Mostafavi, et al 2021; 11 (11)
- **Spinal Cord Injury Management through the Combination of Stem Cells and Implantable 3D Bioprinted Platforms.** *Cells* Zarepour, A., Hooshmand, S., Gokmen, A., Zarrabi, A., Mostafavi, E. 2021; 10 (11)
- **Molecular and Biochemical Pathways Encompassing Diabetes Mellitus and Dementia.** *CNS & neurological disorders drug targets* Behl, T., Arora, A., Sehgal, A., Singh, S., Sharma, N., Bhatia, S., Al-Harrasi, A., Bungau, S., Mostafavi, E. 2021
- **Polylysine for skin regeneration: A review of recent advances and future perspectives** *BIOENGINEERING & TRANSLATIONAL MEDICINE* Zarrintaj, P., Ghorbani, S., Barani, M., Chauhan, N., Yazdi, M., Saeb, M., Ramsey, J. D., Hamblin, M. R., Mozafari, M., Mostafavi, E. 2021
- **CRISPR/Cas-powered nanobiosensors for diagnostics.** *Biosensors & bioelectronics* Phan, Q. A., Truong, L. B., Medina-Cruz, D., Dincer, C., Mostafavi, E. 2021; 197: 113732
- **MXenes and MXene-based Materials with Cancer Diagnostic Applications: Challenges and Opportunities** *COMMENTS ON INORGANIC CHEMISTRY* Soufi, G., Iravani, P., Hekmatnia, A., Mostafavi, E., Khatami, M., Iravani, S. 2021
- **Nanomaterials for Chronic Kidney Disease Detection** *APPLIED SCIENCES-BASEL* Maleki Dizaj, S., Eftekhari, A., Mammadova, S., Ahmadian, E., Ardalan, M., Davaran, S., Nasibova, A., Khalilov, R., Valiyeva, M., Mehraliyeva, S., Mostafavi, E. 2021; 11 (20)
- **Theoretical Encapsulation of Fluorouracil (5-FU) Anti-Cancer Chemotherapy Drug into Carbon Nanotubes (CNT) and Boron Nitride Nanotubes (BNNT).** *Molecules (Basel, Switzerland)* Zarghami Dehaghani, M., Yousefi, F., Sajadi, S. M., Tajammal Munir, M., Abida, O., Habibzadeh, S., Mashhadzadeh, A. H., Rabiee, N., Mostafavi, E., Saeb, M. R. 2021; 26 (16)
- **Drug delivery to the anterior segment of the eye: a review of current and future treatment strategies.** *International journal of pharmaceutics* Mofidfar, M., Abdi, B., Ahadian, S., Mostafavi, E., Desai, T. A., Abbasi, F., Sun, Y., Manche, E. E., Ta, C. N., Flowers, C. W. 2021: 120924

- **Advances in 3D-Printed Surface-Modified Ca-Si Bioceramic Structures and Their Potential for Bone Tumor Therapy.** *Materials (Basel, Switzerland)*
Truong, L. B., Medina Cruz, D., Mostafavi, E., O'Connell, C. P., Webster, T. J.
2021; 14 (14)
- **Metal-Organic Frameworks-Based Nanomaterials for Drug Delivery.** *Materials (Basel, Switzerland)*
Saeb, M. R., Rabiee, N., Mozafari, M., Mostafavi, E.
2021; 14 (13)
- **Co-Loading of Cisplatin and Methotrexate in Nanoparticle-Based PCL-PEG System Enhances Lung Cancer Chemotherapy Effects** *JOURNAL OF CLUSTER SCIENCE*
Akbari, E., Mousazadeh, H., Hanifehpour, Y., Mostafavi, E., Gorabi, A., Nejati, K., Keyhanvar, P., Pazoki-Toroudi, H., Mohammadhosseini, M., Akbarzadeh, A.
2021
- **Selenium Nanomaterials to Combat Antimicrobial Resistance** *MOLECULES*
Truong, L. B., Medina-Cruz, D., Mostafavi, E., Rabiee, N.
2021; 26 (12)
- **Ubiquitin-proteasome system and the role of its inhibitors in cancer therapy.** *Open biology*
Aliabadi, F., Sohrabi, B., Mostafavi, E., Pazoki-Toroudi, H., Webster, T. J.
2021; 11 (4): 200390
- **In situ printing of scaffolds for reconstruction of bone defects.** *Acta biomaterialia*
Mostafavi, A., Abudula, T., Russell, C. S., Mostafavi, E., Williams, T. J., Salah, N., Alshahrie, A., Harris, S., Basri, S. M., Mishra, Y. K., Webster, T. J., Memic, A., Tamayol, et al
2021
- **Aloe Vera-Mediated Te Nanostructures: Highly Potent Antibacterial Agents and Moderated Anticancer Effects.** *Nanomaterials (Basel, Switzerland)*
Medina-Cruz, D., Vernet-Crua, A., Mostafavi, E., Gonzalez, M. U., Martinez, L., Iii, A. D., Kusper, M., Sotelo, E., Gao, M., Geoffrion, L. D., Shah, V., Guisbiers, G., Cholula-Diaz, et al
2021; 11 (2)
- **Boron Nitride Nanotube as an Antimicrobial Peptide Carrier: A Theoretical Insight.** *International journal of nanomedicine*
Zarghami Dehaghani, M., Bagheri, B., Yousefi, F., Nasiriasayesh, A., Hamed Mashhadzadeh, A., Zarrintaj, P., Rabiee, N., Bagherzadeh, M., Fierro, V., Celzard, A., Saeb, M. R., Mostafavi, E.
2021; 16: 1837–47
- **Emerging theranostic silver and gold nanobiomaterials for breast cancer: Present status and future prospects** *Handbook on Nanobiomaterials for Therapeutics and Diagnostic Applications*
Saravanan, M., Barabadi, H., Vahidi, H., Webster, T. J., Medina-Cruz, D., Mostafavi, E., Vernet-Crua, A., Cholula-Diaz, J. L., Periakaruppan, P.
Elsevier.2021; 1: 439-456
- **Nanobiosensors for theranostic applications** *Handbook on Nanobiomaterials for Therapeutics and Diagnostic Applications*
Vernet-Crua, A., Medina-Cruz, D., Mostafavi, E., Benko, A., Cholula-Diaz, J. L., Saravanan, M., Vahidi, H., Barabadi, H., Webster, T. J.
Elsevier.2021; 1: 511-543
- **Calcium-based nanomaterials and their interrelation with chitosan: optimization for pCRISPR delivery.** *Journal of nanostructure in chemistry*
Rabiee, N., Bagherzadeh, M., Ghadiri, A. M., Kiani, M., Ahmadi, S., Jajarmi, V., Fatahi, Y., Aldhaher, A., Tahriri, M., Webster, T. J., Mostafavi, E.
2021: 1-14
- **Carbon Nanotubes: Smart Drug/Gene Delivery Carriers (vol 16, pg 1681, 2021)** *INTERNATIONAL JOURNAL OF NANOMEDICINE*
Zare, H., Ahmadi, S., Ghasemi, A., Ghanbari, M., Rabiee, N., Bagherzadeh, M., Karimi, M., Webster, T. J., Hamblin, M. R., Mostafavi, E.
2021; 16: 7283
- **alpha-Helical Antimicrobial Peptide Encapsulation and Release from Boron Nitride Nanotubes: A Computational Study** *INTERNATIONAL JOURNAL OF NANOMEDICINE*
Dehaghani, M., Yousefi, F., Bagheri, B., Seid, F., Mashhadzadeh, A., Rabiee, N., Zarrintaj, P., Mostafavi, E., Saeb, M., Kim, Y.
2021; 16: 4277-4288
- **Nanotechnology-based approaches for emerging and re-emerging viruses: Special emphasis on COVID-19.** *Microbial pathogenesis*
Saravanan, M. n., Mostafavi, E. n., Vincent, S. n., Negash, H. n., Andavar, R. n., Perumal, V. n., Chandra, N. n., Narayanasamy, S. n., Kalimuthu, K. n., Barabadi, H. n.

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- **Carbon Nanotubes: Smart Drug/Gene Delivery Carriers.** *International journal of nanomedicine*
Zare, H., Ahmadi, S., Ghasemi, A., Ghanbari, M., Rabiee, N., Bagherzadeh, M., Karimi, M., Webster, T. J., Hamblin, M. R., Mostafavi, E.
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- **Chitosan/PVA hydrogels incorporated with green synthesized cerium oxide nanoparticles for wound healing applications** *EUROPEAN POLYMER JOURNAL*
Kalantari, K., Mostafavi, E., Saleh, B., Soltantabar, P., Webster, T. J.
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