

Curriculum Vitae

Khalil Abnous (Pharm.D, Ph.D)

Professor of Medicinal Chemistry

Mashhad University of Medical Sciences, Mashhad, Iran

H-Index (SCOPUS):77

H-Index (Google Scholar): 78

H-Index (Web of Science): 64

1% highly cited Scientist as indicated by Essential Science Indicator in the field of

Pharmacology and Toxicology since 2017 (International)

1% highly cited Scientist as indicated by Essential Science Indicator in the field of **Chemistry** since 2021 (International)

Winner of Publons' top 1% global **Peer Review Awards** (2018, 2019) (international)

Top ranked in 23rd National **Razi Research Festival on Medical Sciences** (2018)

Winner of National **Razavi Scientific Medal** (2018)

Winner of Mashhad University of Medical Sciences 5- year-scholarship to study abroad

Three times winner of Top Researcher Medal in Mashhad University of Medical sciences

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Personal Details

Date and place of birth: 1974, Mashhad, Iran

Marital status: Married

Nationality: Iran

Education

School of Pharmacy, Mashhad University of Medical Sciences, Iran

Pharm D supervisor: Dr Saberi, Dr Rahimizadeh

Research Field: Organic Chemistry

Pharm D thesis: Synthesis of 17, 21 dihydroxy progesterone

Department of Chemistry, Carleton University, Canada

PhD supervisor: Prof. K.B. Storey

Research Field: Enzyme Biochemistry and Biotechnology

PhD thesis: Regulation of Metabolic Enzymes in Hibernation

Department of Chemistry, Carleton University, Canada

PDF Supervisor : Dr Maria DeRosa

Research Field: SELEX; Aptamer

Department of Nutrition Research, Health Canada, Ottawa, Canada

PDF Supervisor : Dr Steve Brooks

Research Field: Microbiology, Proteomics (hydrolytic Enzymes) and Genomics (16S rRNA)

Department of Chemistry, Carleton University, Canada

Sabbatical Supervisor : Dr Maria DeRosa

Research Field: Aptasensors

Research Interests

Aptamer design and their application in Biosensors and targeted drug and gene delivery

Application of CRISPR in biosensor design and gene therapy

Genetically Modified Mesenchymal Stem Cells

Proteomics and Target Deconvolution of natural products

US patent

Gholoobi A, Meshkat Z, **Abnous K**, Mobarhan MG. Aptamers for targeting hpv16-positive tumor cells. US Patent 11,560,564; 2023.

National Patents

Alibolandi M. , Lamei K, Hasannia M, Ramezani M, Taghdisi SM, **Abnous K**, Nekooei S, Nekooei N, (2023) Synthesis of hybrid amphiphilic PLA-PGA polypeptide hybrid to USPIOs as a theranostic platform for metastatic breast cancer, IR patent#140150140003006154

Alibolandi, M; Ramezani, M; Hasannia, M; Taghdisi, SM; **Abnous, K**; (2022) Synthesis of peptosomes hybridized with gold nanorod for targeted drug delivery and CT imaging of metastatic breast cancer, IR Patent# 140150140003005864

Khoshbin Z, **Abnous K**, Taghdisi SM. Zahraee H, Verdian A, , Zamanian J (2022) Sensitive sensor for detection of antibiotic using liquid crystal-assisted aptasensor, IR Patent# 140150140003005193

Abdollahzade A, , **Abnous K**, Taghdisi SM. Rahimi H, Ramezani M, Alibolandi M, Targeted delivery of doxorubicin and therapeutic FOXM1 aptamer to tumor cells using gold nanoparticles modified with AS1411 and ATP aptamers. IR Patent# 140150140003002290

Taghdisi, SM; **Abnous, K** , Rahimi, H; Abdollahzade, A; Alibolandi, M; Ramezani, M; (2022) Targeted delivery of doxorubicin to tumor cells using engineered circular bivalent aptamer, IR Patent # 140150140003002289

Alibolandi, M., Ramezani, M., **Abnous, K.**, (2022) Synthesis and preparation of celecoxib thermosensitive hydrogels for treatment of Osteoarthritis, IR Patent# 140150140003000673

Hazeri Y, **Abnous K** , Taghdisi SM, Samie A, (2022) fabrication of Dual-targeted delivery by mesoporous silica nanoparticle to breast cancer in vitro and in vivo. IR Patent# 140050140003009753

Falsafi, M., Alibolandi, M., Ramezani, M., Saljooghi, A.S., Taghdisi, S.M., **Abnous, K.**, Sazgarnia, A., (2021) Preparation of copper-based MOF for guided photochemotherapy and targeted drug therapy against metastatic breast cancer, IR Patent# 140050140003000834

Zahiri M, Alibolandi M., Ramezani M, **Abnous K**, Taghdisi SM, (2021) Fabrication Hybrid lipopolymsomes for treatment of colon adenocarcinoma, IR Patent# 139950140003009703

Alibolandi M., Naserifar M, Ramezani M, Hosseinzadeh H, **Abnous K**, (2020) Preparation of resveratrol-loaded nanoparticles for inflammatory bowel disease, IR Patent# 139950140003003013

Danesh NM, **Abnous K** , Lavaei P., Taghdisi SM, (2014) Fluorescence based detection of lead (II) in drinking water and narcotics, IR Patent# 139950140003002632

Alibolandi M. , Zavvar T, Babaei M, Ramezani M. , **Abnous K**, Taghdisi SM, Nekooei S, (2020) Synthesis of double targeted theranostic polymersomes for targeted drug delivery and quantum dot Magnetic Resonance/fluorescence imaging , IR Patent# 139850140003008138

Alibolandi, M. , Ramezani, M., Shahriari, M., Taghdisi, S.M., **Abnous, K.**, (2019) Synthesis of polymersomes loaded with doxorubicin for treatment of metastatic breast cancer, IR Patent# 139850140003006126

Gholoobi, A; **Abnous, K**; Mobarhan, MG; Meshkat, Z; Homaei, SF; Ramezani, M.; (2023) Aptamers for targeting hpv16-positive tumor cells, IR Patent# 139750140003008379

Mansouri, A., **Abnous, K.**, Nabavinia, M.S., Ramezani, M., Taghdisi, S.M. (2020) In vitro selection of tacrolimus binding aptamer by systematic evolution of ligands by exponential enrichment method for the development of a fluorescent aptasensor for sensitive detection of tacrolimus in serum, IR Patent# 139750140003006018

Asnaashari, M., **Abnous, K.**, Taghdisi, S.M., Farahmandfar, R., Esmailzadeh Kenari, R., (2018) Fluorescence aptasensor based on gold nanoparticle and aptamer for acrylamide detection in food products, IR Patent# 139750140003002731

Sadeghi AS, Mohsenzadeh M, Taghdisi SM, **Abnous K**, Ramezani M (2018) Optical and electrochemical aptasensors for the detection of florphenicols IR Patent# 139650140003010931

Sadeghi AS, Mohsenzadeh M, **Abnous K**, Taghdisi SM, Ramezani M. (2018) Development and characterization of DNA aptamers against florfenicol: Fabrication of a sensitive fluorescent aptasensor for specific detection of florfenicol in milk, IR Patent# 139650140003010924

Ansari, N., Taghdisi, S.M. , Shahdordizadeh, M. **Abnous, K** , ., Ramezani, M., Ghazvini, K, (2018) Selection of DNA aptamers against Mycobacterium tuberculosis Ag85A, and its application in a graphene oxide-based fluorometric assay, IR Patent# 139650140003009066

Yazdian-Robati R., **Abnous, K.**, Taghdisi, S.M., Danesh, N.M., Ramezani, M. (2016) Targeted delivery of anticancer to leukemia cells using an aptamer-modified albumin conjugate, IR Patent# 139550140003014458

Razavi Hospital (2020) Development of an effective liposomal cholesterol ester transfer protein (CETP) vaccine for protecting against atherosclerosis in rabbit model, IR Patent# 139550140003010995

Hadizadeh F, Jouya M, Kalalinia F, **Abnous K**, Behravan J, (2018) Design, Synthesis, and Biological Evaluation of New Azole Derivatives as Potent Aromatase Inhibitors with Potential Effects against Breast Cancer and induction of prgnancy. IR Patent# 13905014000301903

Book Chapters

Mohammadi F, Khoshbin Z, **Abnous K***, Taghdisi SM. Nanosensing systems for cancer diagnosis. IoT-WSN-DT Based Medical Systems and Nanotechnology for Smart Cancer Care2025. p. 107–26.

Mohammadi F, Zahraee H, Khoshbin Z, **Abnous K**, Taghdisi SM. Lab-on-chip arrays for diagnostic applications. Advanced Sensors for Smart Healthcare2025. p. 455–78.

Dehghani S, Taghdisi SM, **Abnous K**, Alibolandi M, Ramezani M. Aptamer-Based Nanoparticles for Cancer Therapy. Handbook of Material Engineering in Nanobiomedicine and Diagnostics2025. p. 791–816.

Abrishami A, Iranpour S, Taghdisi SM, **Abnous K**. Smart nanoencapsulation for cancer therapy. IoT-WSN-DT Based Medical Systems and Nanotechnology for Smart Cancer Care2025. p. 127–56.

Bagheri, z; Sameiyan, E; Hassibian, S; Amin, M; Alibolandi, M; Ramezani, M; Taghdisi, SM; **Abnous, K**; (2024) Modification of Cell Membrane-Coated Platforms for Targeted Drug Delivery. In: Cell Membrane Surface-Engineered Nanoparticles: Biomimetic Nanomaterials for Biomedical Applications, 57-88, American Chemical Society

Hasannia M, Tabasi H, **Abnous K**, Taghdisi SM, Ramezani M, Alibolandi M. Theranostic gold nanoparticles mediated drug delivery. Theranostics Nanomaterials in Drug Delivery2024. p. 211–29.

Sameiyan E, **Abnous K**, Taghdisi SM, Ramezani M, Alibolandi M. Aptasensor-based detection: A journey for toxin detection in food. Aptasensors for Food Safety: Fundamentals and Applications2024. p. 270–99.

Khademi Z, Falsafi M, Taghdisi SM, **Abnous K**. Cell Membrane Surface-Engineered Nanoparticles for Autoimmune Diseases and Immunotherapy. ACS Symposium Series. 14642024. p. 217–47.

Khoshbin Z, Zahraee H, **Abnous K**, Taghdisi SM. Hybrid gold nanoparticles as advanced drug delivery and theranostics application. Gold Nanoparticles for Drug Delivery2023. p. 421–44.

Khoshbin Z, Rouhi N, **Abnous K**, Taghdisi SM, Verdian-Doghaei A. Aptamer-based analysis of heavy metal ions. Aptamers for Food Applications: Safety, Authenticity, and Integrity2023. p. 127–37.

Khoshbin Z, Moeenfar M, **Abnous K**, Taghdisi SM. A food safety gadget for acrylamide determination: Aptamer placement at surfactant-liquid crystal interface. *LWT-Food Science And Technology* (**IF=6.6**). 2023;187.

Ramezani M, Jalalian SH, Taghdisi SM, **Abnous K**, Alibolandi M. Optical and Electrochemical Aptasensors for Sensitive Detection of Aflatoxin B1 and Aflatoxin M1 in Blood Serum, Grape Juice, and Milk Samples. *Methods in Molecular Biology*. 2393/2022. p. 417–36.

Khoshbin Z, Sameiyan E, **Abnous K**, Taghdisi SM. Aptamer-based sensors for drug analysis. *Nanosensing and Bioanalytical Technologies in Food Quality Control* 2022. p. 65–88.

Khojastehnezhad A, Khoshbin Z, Ramezani M, Alibolandi M, **Abnous K**, Taghdisi SM. Quantum Dot Nanomaterials as the Aptasensing Platforms. *Materials Horizons: From Nature to Nanomaterials* 2022. p. 61–81.

Bayat P, Gholoobi A, **Abnous K**, Taghdisi SM, Asadi P, Yazdian–Robati R. Relevance of aptamers as targeting ligands for anticancer therapies. *Aptamers Engineered Nanocarriers for Cancer Therapy* 2022. p. 85–102.

Ramezani M, Taghdisi SM, Yazdian–Robati R, Oroojalian F, **Abnous K**, Alibolandi M. Nanosensors for water safety. *Nanosensors for Smart Cities* 2020. p. 285–301.

Charbgo F, Taghdisi SM, Yazdian-Robati R, **Abnous K**, Ramezani M, Alibolandi M. Aptamer-incorporated nanoparticle systems for drug delivery. *Nanobiotechnology in Diagnosis, Drug Delivery, and Treatment*. 2020:95–112.

Ramezani M, Esmaelpourfarkhani M, Taghdisi SM, **Abnous K**, Alibolandi M. Application of nanosensors for food safety. *Nanosensors for Smart Cities* 2020. p. 369–86.

Ramezani M, Alibolandi M, Charbgo F, **Abnous K**, Taghdisi SM. Nanoparticles Application for Cancer Diagnosis. *Nanopharmaceuticals: Principles and Applications Vol 3: Springer International Publishing Cham*; 2020. p. 25–52.

Ramezani M, Alibolandi M, Nejabat M, Charbgo F, Taghdisi SM, **Abnous K**. Graphene-Based Hybrid Nanomaterials for Biomedical Applications. *Biomedical Applications of Graphene and 2D Nanomaterials* 2019. p. 119–41.

Ramezani M, Alibolandi M, Nejabat M, Charbgo F, Taghdisi S, **Abnous K**. Biomedical Applications of Graphene and 2D Nanomaterials. Elsevier New York, NY, USA; 2019.

Taghdisi SM, Yazdian–Robati R, Alibolandi M, Ramezani M, **Abnous K**. Development of Aptamer-Based Fluorescence Sensors. *Aptamers for Analytical Applications: Affinity Acquisition and Method Design* 2018. p. 229–46.

Alibolandi M, Charbgo F, Taghdisi SM, **Abnous K**, Ramezani M. Active targeted nanoscale delivery systems for brain tumor therapeutics. *Nanotechnology-Based Targeted Drug Delivery Systems for Brain Tumors* 2018. p. 75–110.

Ramezani M, **Abnous K**, Taghdisi SM. Optical and electrochemical aptasensors for sensitive detection of streptomycin in blood serum and milk. *Methods in Molecular Biology*. 15722017. p. 403–20.

Research papers

Zamanian J, Samie A, Alavian H, Alibolandi M, Etemad L, **Abnous K***, Taghdisi SM. i-Motifs in cancer diagnosis and treatment: fabrication and functionalization. *Journal of Materials Chemistry B*. 2026;14(2):485–516. (IF=5.7)

Taghavi S, Nourollahian T, **Abnous K**, Taghdisi SM, Ramezani M, Alibolandi M. Theranostic nanoparticles for combining ferroptosis and diagnostic. *Journal of Drug Delivery Science and Technology*. 2026;115. (IF=4.9)

Shafaghi A, Mohammadi F, Khoshbin Z, Solouki Y, Olfati Sumar M, Ramezani M, Alibolandi M, Lavaee P, **Abnous K***, Taghdisi SM. A Sensitive Aptasensor for Monitoring of Sulfadimethoxine Based on Reinforced Oxidase-Like Activity of MnO₂ Nanoflowers by Rolling Circle Amplification DNA Product: Effective in Controlling Seafood Safety. *BioNanoScience*. 2026;16(1). (IF=3.2)

Mohammadi Zonouz A, Ebrahimpour M, Zibaei K, Ramezani M, Taghavi S, **Abnous K**, Taghdisi SM, Alibolandi M. Polymersome-based nanomedicine for combined cancer therapy. *Drug Delivery*. 2026;33(1):2577137. (IF=8.1)

Jamshidi Z, Taghdisi SM, **Abnous K**, Ghodsi R, Hadizadeh F. Multicomponent synthesis of novel imidazole-pyran derivatives: in silico and in vitro studies. *RSC Advances*. 2026;16(1):574–85. (IF=4.6)

Bagheri E, Aminyazdi E, Ramezani M, Mohammadi M, **Abnous K**, Taghdisi SM, Alibolandi M. Insights into extracellular vesicle-based platforms on the way to cancer treatment. *Journal of Translational Medicine*. 2026;24(1). (IF=7.5)

Zahraee H, Khoshbin Z, Mashreghi M, **Abnous K***, Taghdisi SM. Development of an ultrasensitive CRISPR-Cas12a-mediated aptasensor using liquid crystal and three-way DNA junction nanoskeleton for the detection of ochratoxin A. *Sensors and Actuators B: Chemical*. 2025;444. (IF=7.7)

Zahraee H, Arab SS, Parvae E, Mohammadi F, **Abnous K***, Taghdisi SM, Khoshbin Z. Simulation study of solvent effect on competitive degradation of aggregation of homo- and hetero- amyloid- β dimers. *Journal of Molecular Liquids*. 2025;417. (IF=5.2)

Zahraee H, Arab SS, Khoshbin Z, Taghdisi SM, **Abnous K***. Molecular dynamics simulation as a promising approach for computational study of liquid crystal-based aptasensors. *Journal of Biomolecular Structure & Dynamics*. 2025;43(13):6803–15. (IF=2.4)

Tajgardoost M, Mohammadi F, Khoshbin Z, Ahadian S, **Abnous K***, Moeenfard M, Taghdisi SM. A robust label-free aptasensor for naked-eye monitoring of acrylamide boosted by oxidase-like catalytic function of MnO₂ nanoflowers. *Microchemical Journal*. 2025;219. (IF=5.1)

Solouki Y, Khoshbin Z, Shafaghi A, Ramezani M, Alibolandi M, **Abnous K***, Taghdisi SM. A tag-free fluorescent aptasensor for ultrasensitive detection of sulfadimethoxine antibiotic mediated by rolling circle amplified DNA cascades. *Spectrochimica Acta Part A-Molecular and Biomolecular Spectroscopy*.

2025;339:126309. (IF=4.6)

Shafaghi A, Khoshbin Z, Mohammadi F, Zahraee H, Faraji Shovey A, Ramezani M, Alibolandi M, **Abnous K***, Taghdisi SM. Recent progress in two-response signaling aptasensors: Efficient detection tools for various targets. *Microchemical Journal*. 2025;209. (IF=5.1)

Sadati SMMR, Zamanian J, Moshiri M, Ghayour-Mobarhan MG, **Abnous K**, Taghdisi SM, Etemad L. Advancing cancer treatment with nanozyme frameworks: Integrating photothermal, photodynamic, sonodynamic, and chemodynamic therapies. *Iranian Journal of Basic Medical Sciences*. 2025;28(5):533–52. (IF=2.7)

Nazari M, Alikhani M, Tabasi H, Nekooei S, **Abnous K**, Taghdisi SM, Ramezani M, Alibolandi M. Dual-responsive manganese-based metal–organic framework coated with aptamer-tagged macrophage membrane: an innovative approach for enhanced chemodynamic therapy and MR imaging. *Cancer Nanotechnology*. 2025;16(1). (IF=4.8)

Nazari M, Alikhani M, Nekooei S, **Abnous K**, Taghdisi SM, Saljooghi AS, Ramezani M, Alibolandi M. Synthesis of theranostic covalent organic framework for Tumor-targeted Chemo-photodynamic therapy. *International Journal of Pharmaceutics*. 2025;676:125621. (IF=5.2)

Moradi Z, **Abnous K**, Taghdisi SM, Zamanian J, Moshiri M, Etemad D, Etemad L, Kesharwani P, Sahebkar A. Designing multivalent aptamers: Recent advancements in diagnostic and therapeutic approaches for cancer treatment. *Journal of Drug Delivery Science and Technology*. 2025;105. (IF=4.9)

Mohammadi F, Sameiyan E, Khoshbin Z, Sumar MO, Ramezani M, Alibolandi M, **Abnous K***, Taghdisi SM. A fluorescent aptasensor assisted by enzymatic rolling circle amplification process for specific sensing of human non-small lung adenocarcinoma cells. *Microchemical Journal*. 2025;217. (IF=5.1)

Mohammadi F, Khoshbin Z, Ahadian S, Asadi P, Ramezani M, Alibolandi M, **Abnous K***, Taghdisi SM. Label-free colorimetric biosensor for sensitive detection of lead (II) ion based on aptazyme-amplified oxidase-like activity of MnO(2) nanoflowers. *Biosensors and Bioelectronics*. 2025;287:117751. (IF=10.5)

Mehravanfar H, Farhadian N, **Abnous K**, Zavvar T. Catalase enzyme-modified carbon quantum dot nanoparticles with hypoxia alleviation associated with indocyanine green for synchronous augmented photodynamic therapy and cell imaging of melanoma. *Nanoscale*. 2025;17(34):19631–55. (IF=5.1)

Mashmoul Moghadam SM, Ramezani M, Alibolandi M, **Abnous K***, Taghdisi SM. Employing covalent organic framework (COF) as carrier in an aptamer-targeted theranostic nanoplatfrom: investigation of its therapeutic and diagnostic properties in vitro and in vivo. *J of Drug Targeting*. 2025;33(10):1892–901. (IF=3.9)

Khoshnood A, Iranpour S, Khaksari S, Shaegh SAM, **Abnous K***, Taghdisi SM. Liposome/AZIF-8 Janus nanoplatfroms: Promising nanocarriers for improving chemotherapeutic outcomes in breast cancer treatment. *International Journal of Pharmaceutics*. 2025;678:125702. (IF=5.2)

Khoshnood A, Farhadian N, **Abnous K**, Matin MM, Ziaee N, Iranpour S. Polyethyleneimine/gold nanorods conjugated with carbon quantum dots and hyaluronic acid for chemo-photothermal therapy of breast cancer. *Journal of Materials Chemistry B*. 2025;13(16):4893–909. (IF=5.7)

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Jamshidi Z, **Abnous K**, Ghodsi R, Taghdisi SM, Hadizadeh F. Novel imidazolyl-hydroxamic acid Schiff base scaffold derivatives as histone deacetylase inhibitors: Design, synthesis, and biological assessment. *Bioorg Chem*. 2025;164:108879. **(IF=4.7)**

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Hazrati N, Dehghani S, Taghavi S, Taghdisi SM, **Abnous K**, Ramezani M, Alibolandi M. Synthesis of a Smart pH Sensitive Micelle Containing Hyaluronic Acid-Curcumin Bioconjugate Against Colorectal Cancer. *BioNanoScience*. 2025;15(1). **(IF=3.2)**

Hassibian S, Esmaelpourfarkhani M, **Abnous K**, Amin M, Ghazvinian F, Alibolandi M, Ramezani M, Alinezhad Nameghi MA, Mollasalehi H, Farrokhi N, Dehnavi SM, Taghdisi SM. A turn-on fluorescent aptasensor for Pb²⁺ detection based on rhodamine B dye leakage from the internal cavity of hollow gold nanoparticles. *Food Chemistry*. 2025;463. **(IF=9.8)**

Hassibian S, Amin M, Taghdisi SM, Sameiyan E, Ghaffari R, Alibolandi M, Ramezani M, **Abnous K***, Dehnavi SM. Aptamers: Design, Theory, and Applications to Diagnosis and Therapy for Diseases. *MedComm*) (2020). 2025;6(5):e70180. **(IF=10.7)**

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Ghaffari R, Moradi R, Danesh N, Ramezani M, Alibolandi M, **Abnous K***, Taghdisi SM. An innovative biosensor utilizing aptamer-gated mesoporous silica nanoparticles for determination of aminoglycoside antibiotics through indirect-lateral flow. *Analytica Chimica Acta*. 2025;1334:343413. **(IF=6.0)**

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Esmaelpourfarkhani M, Sumar MO, Ramezani M, Alibolandi M, **Abnous K***, Taghdisi SM. A FRET-based aptasensor exploiting the multiple functions of zirconium-based bimetallic organic frameworks for the quantitative determination of sulfadimethoxine. *Mikrochim Acta*. 2025;192(6):389. **(IF=5.3)**

Esmaelpourfarkhani M, Ramezani M, Alibolandi M, **Abnous K***, Taghdisi SM. Aggregation-induced emission-based aptasensors for the detection of various targets: Recent progress. *Talanta*. 2025;292:127995. **(IF=6.1)**

Esmaelpourfarkhani M, Baratian P, Ramezani M, Alibolandi M, **Abnous K***, Taghdisi SM. Bimetallic MOF-derived colorimetric CRISPR/Cas-aptasensor for the detection of sulfadimethoxine utilizing reversible change of peroxidase-mimicking activity of ZrFe MOF nanozymes. *Microchemical Journal*. 2025;213. (IF=5.1)

Eskandarpour V, Hadizadeh F, **Abnous K**, Tayarani-Najaran Z, Ghodsi R. Design, synthesis, biological evaluation and molecular docking study of novel quinolone derivatives as potent HDAC1 (Histone Deacetylase) inhibitors and anticancer agents. *Journal of Molecular Structure*. 2025;1325. (IF=4.7)

Dehghani S, Zolfaghari R, Tahdisi SM, **Abnous K**, Alibolandi M, Ramezani M. Designing an oral insulin delivery system based on milk exosomes for managing diabetes: in vitro and in vivo investigation. *Nanomedicine Journal*. 2025;12(3):392–403. (IF=1.7)

Baratian P, Esmaelpourfarkhani M, **Abnous K**, Taghdisi SM, Tehranipour M. Bimetallic-Based Colorimetric Aptasensor for the Quantitative Analysis of Ampicillin Using Catalytic Activity of ZrFe Metal–Organic Framework and Terminal Deoxynucleotidyl Transferase-Assisted Signal Amplification. *BioNanoScience*. 2025;15(3). (IF=3.2)

Bagheri E, Ramezani M, **Abnous K**, Taghdisi SM, Amel-Farzad S, Nekooei S, Alibolandi M. Targeted theranostic oxygen-filled and doxorubicin-loaded mesenchymal stem cell-derived exosomes-based-nanobubble against melanoma. *Journal of Drug Delivery Science and Technology*. 2025;105. (IF=4.9)

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Alikhani M, Ramezani M, **Abnous K**, Taghdisi SM, Nekooei S, Alibolandi M. Synthesis of theranostic aptamer targeted polydopamine-coated gold nanocages for chemo-photothermal therapy against melanoma. *Journal of Drug Delivery Science and Technology*. 2025;103. (IF=4.9)

Alikhani M, Nazari M, Nekooei S, **Abnous K**, Taghdisi SM, Toosi FS, Ramezani M, Alibolandi M. Smart dual-responsive theranostic MUC1 aptamer-tagged macrophage cell membrane-coated hollow manganese dioxide for chemodynamic therapy and MR imaging of melanoma. *Journal of Pharmaceutical Investigation*. 2025.

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