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Publications

Journals

- N. Jameei Moghaddam, L. Hassani, R. Bagheri , Z. Song , S. I. Allakhverdiev , M. Mahdi Najafpour, "Toward Escherichia coli bacteria-machine for water-oxidation reaction at neutral conditions: Using Ruthenium Red", International Journal of Hydrogen Energy, 2023
- جمشید مهروند، نسیم حیاتی رودباری، لیلا حسنی، وهب جعفریان، خسرو خلیفه، "بررسی بیوترمودینامیکی آنزیم سیکلومالتودکستریناز بومی و برخی جهش یافته های آن"، مجله پژوهش های سلولی و مولکولی ، 2022
- P.Jahangoshayi, L. Hasani, B. Ranjbar, "Investigation of TMPYP4 porphyrin interaction with AS1411 aptamer using spectroscopic methods", Modaes Journal of Biotechnology , 2021
- A. Hematian, M. Valipour, L. Hassani, "The Effect of Polyethylene Glycol Induced Molecular Crowding on β -lactoglobulin Aggregation", Biomacromolecular Journal , 2021
- 1. Z. Falahati , A. Mahdavi , L. Hassani, , "Physicochemical studies on the structural stability of the HIV-1 vaccine candidate recombinant Tat protein ", International Journal of Biological Macromolecules, 2020
- J. Mehrvand, N. Hayati Roodbari , L. Hassani, V. Jafarianc, Khosrow Khalifeh, "An evolution-based designing and characterization of mutants of cyclomaltodextrinase: Molecular



modeling and spectroscopic studies", Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy , 2020

- □ P. Smailii, R. Pakroo, V. Jafarian, R. Mohammadkhani, F. Kabiri Esfahani, L. Hassani, "Decorations of Graphene Oxide with Cisplatin toward Investigation of Fluorescence Quencher on Regulatory Sequence BRCA1 and BRCA2", Journal of Iranian Chemical Society, 2019
- □ Amini, M. Kamali, B. Amini, A.Narmani, L. Hasani, J. Rashidiani, H. Kooshki, "Bio-barcode technology for detection of Staphylococcus aureus protein A based on gold and iron nanoparticles", International Journal of Biological Macromolecules, 2019
- - G. Khoshnevisan, R. Emamzadeh, M. Nazari, S. Mohammad Mahdi Rasa, R. Sariri, L. Hassani, "Kinetics, structure, and dynamics of Renilla luciferase solvated in binary mixtures of glycerol and water and the mechanism by which glycerol obstructs the enzyme emitter site", International Journal of Biological Macromolecules, 2018
- □ R. Mokhtar-Ahmabadia, Z. Madadi, S. Akbari-Birgani, C. Grillon, L. Hasani, S. Hosseinkhani, S. Zareian, "Developing a circularly permuted variant of Renilla luciferase as a bioluminescent sensor for measuring Caspase-9 activity in the cell-free and cell-based systems", Biochemical and Biophysical Research Communications, 2018
- □ M. M. Najafpour, N. Jameei Moghaddam, L. Hassani, R. Bagheri, Z. Song, "Toward Escherichia coli bacteria -machine for water oxidation ", Photosynthesis Research, 2018
- □ F. Mohammadi, M. Moeeni, A. Mahmudian, L. Hassani, "Inhibition of amyloid fibrillation of lysozyme by bisdemethoxycurcumin and diacetylbisdemethoxycurcumin ", Biophysical Chemistry, 2018
- B. Mosaddegh, Z. Takalloo, R. H. Sajedi, S. S. Shahangian, L.



Hassani, B. Rasti, "An inter-subunit disulfide bond of artemin acts as a redox switch for its chaperone-like activity ", Cell Stress and Chaperons , 2018

- ☐ A. Narmani, M. Kamali, B. Amini, H. Kooshki, A. Amini, L. Hasani, "Highly sensitive and accurate detection of Vibrio cholera O1 OmpW gene by fluorescence DNA biosensor based on gold and magnetic nanoparticles", Process Biochemistry, 2017
- ☐ S. Bagheri, N. Omidikia, N. Sarvar, M. Kompany-Zareh, L. Hasani, H. Tavallali, "Multivariate investigation of interaction between porphyrin ligands and human telomeric DNA", Journal of the Iranian Chemical Society, 2017
- ☐ H. Dezhampah, R. Firouzi, L. Hasani, "Intermolecular interaction of nickel (ii) phthalocyanine tetrasulfonic acid tetrasodium salt with bovine serum albumin: A multi-technique study", Nucleosides, Nucleotides & Nucleic Acids, 2017
- H. Dezhampah, E. Esmaili, L. Hasani , " Milk caseins as useful vehicle for delivery of dipyridamole drug", Journal of Biomolecular Structure & Dynamics, 2017
- ☐ Z. Sajjadian, N. Cheraghi, S. Mohammadi Nejad, L. Hassani, " Interaction of aurein 1.2 and its analogue with DPPC lipid bilayer", Journal of Biological Physics, 2017
- ☐ M. Ghahremani Nasab, L. Hassani, S. Mohammadi Nejad, D. Norouzi, " Interaction of hemin with quadruplex DNA", Journal of Biological Physics, 2017
- ☐ Khodaei, S. Bolandnazar, H. Valizadeh and L. Hassani , " Interaction between sirolimus and anti-inflammatory drugs: competitive binding for human serum albumin", Advanced Pharmaceutical Bulletin, 2016
- ☐ H. Dezhampah, R. Firouzi and L. Hasani, "Spectroscopy and Molecular Modeling Study on Binding of Nickel Phthalocyanine



to Human Serum Albumin", Protein & Peptide Letters, 2016

- ☐ Z. Niknezhad, L. Hassani, D. Norouzi, " Investigating actinomycin D binding to G-quadruplex, i-motif and double-stranded DNA in 27-nt segment of c-MYC gene promoter", Materials Science and Engineering: C , 2016
- ☐ F. Mohammadi, A. Mahmudian, M. Moeeni and L. Hassani, "Inhibition of amyloid fibrillation of hen egg-white lysozyme by the natural and synthetic curcuminoids", RSC Advances, 2016
- ☐ Khodaei, S. Bolandnazar, H. Valizadeh, L. Hasani and P. Zakeri-Milani, " Interactions between sirolimus and anti-inflammatory drugs: competitive binding for human serum albumin", Advanced Pharmaceutical Bulletin, 2016
- ☐ A. Hamidi, L. Hassani, F. Mohammadi, P. Jahangoshayi and K. Mohammadi, "The biological effects of vanadyl curcumin and vanadyl diacetylcucumin complexes: the effect on structure, function and oxidative stability of the peroxidase enzyme, antibacterial activity and cytotoxic effect", Journal of Enzyme Inhibition and Medicinal Chemistry,, 2015
- ☐ P. Jahangoshayi, L. Hassani, F. Mohammadi, A. Hamidi, K. Mohammadi, "Investigating the effect of gallium curcumin and gallium diacetylcucumin complexes on the structure, function and oxidative stability of the peroxidase enzyme and their anticancer and antibacterial activities", Journal of Biological Inorganic Chemistry, 2015
- ☐ B. Pourjabbar, L. Hassani and R. H. Sajedi, " Investigating the effect of structural transition on aggregation of β -Lactoglobulin", Protein & Peptide Letters, 2015
- ☐ L. Hassani, Z. Fazeli, E. Safaei, H. Rastegar and M. Akbari, "A spectroscopic investigation of the interaction between c-MYC DNA and tetrapyridinoporphyrazinatozinc(II)", Journal of Biological physics, 2014



- ☐ L. Hassani and R. Nourozi, "Modification of lysine residues of horseradish peroxidase and its effect on stability and structure of the enzyme", Applied Biochemistry and Biotechnology, 2014
- ☐ L. Hassani, F. Hakimian and E. Safaei, "Spectroscopic investigation on the interaction of copper porphyrazines and phthalocyanine with human telomeric G-quadruplex DNA", Biophysical chemistry, 2014
- ☐ L. Hassani, F. Hakimian, E. Safaei and Z. Fazeli. Journal of Molecular Structure, "Antibacterial effect of cationic porphyrazines and anionic phthalocyanine and their interaction with plasmid DNA", Journal of Molecular Structure, 2013
- ☐ L. Hassani and R. Sajedi, "Effect of artemin on structural transition of β -lactoglobulin", Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 2013
- ☐ S. Hosseinkhani, M. Nazari and L. Hassani, "Step-wise addition of disulfide bridge in firefly luciferase controls color shift through a flexible loop: A thermodynamic perspective", Photochemical and Photobiological Sciences, 2013
- ☐ L. Hassani, "The effect of chemical modification with pyromellitic anhydride on structure, function, and thermal stability of horseradish peroxidase", Applied Biochemistry and Biotechnology, 2012
- ☐ L. Hassani, "Chemical modification of horseradish peroxidase with carboxylic anhydrides: Effect of negative charge and hydrophilicity of the modifiers on thermal stability", Journal of Molecular catalysis B: Enzymatic, 2012
- ☐ L. Hassani, . Journal of Iranian Chemical Society, "Diabetes and amyloidogenic amylin", Journal of Iranian Chemical Society, 2011
- ☐ M. R. Ganjalikhany, B. Ranjbar, S. Hosseinkhani, K. Khalifeh and L. Hassani, "Roles of trehalose and magnesium sulfate on



structural and functional stability of firefly luciferase", Journal of Molecular Catalysis B: Enzymatic, 2010

- ☐ L. Hasani, B. Ranjbar, M. Tavalliae and M. Sadeghizadeh, "Identification of a Molten Globule like state in HC-N fragment of Botulinum Neurotoxin A: Shedding light on the poorly-known features of a conserved sub-domain", Protein and Peptide Letters, 2009
- ☐ A. Mohsenifar, S. Lotfi, B. Ranjbar, A. Allameh, F. Zaker, L. Hasani, B. Etemadi Kia and S. Hasannia, "A Study of the Oxidation-Induced Conformational and Functional Changes in Neuroserpin", Iranian Biomedical Journal, 2007
- ☐ D. Ajloo, H. Behnam, A. A. Saboury, F. Mohamadi-Zonoz, B. Ranjbar, A. A. Moosavi-Movahedi, Z. Hasani, K. Alizadeh, M. Gharanfoli, and M. Amani, "Thermodynamic and Structural Studies on the Human Serum Albumin in the Presence of a Polyoxometalate", Bulletin- Korean Chemical Society, 2007
- ☐ E. Safaei, B. Ranjbar and L. Hasani, "A study on the selfassembly of Fe (II) and dual binding of Ni (II) porphyrazines on CT-DNA", Journal of Porphyrins and Phthalocyanines, 2007
- ☐ L. Hassani, B. Ranjbar, K. Khajeh, H. Naderi-Manesh, M. Naderi-Manesh and M. Sadeghi, "Horseradish peroxidase thermostabilization: The combinatorial effects of the surface modification and the polyols", Enzyme and Microbial Technology, 2006
- ☐ M. Asadi, E. Safaei and B. Ranjbar and L. Hasani, "A study on the binding of two water-soluble tetapyridinoporphyrazinato copper (II) complexes to DNA", Journal of Molecular Structure, 2005
- ☐ M. Asadi, E. Safaei and B. Ranjbar and L. Hasani, "Thermodynamic and Spectroscopic Study on the binding of cationic Zn (II) and Co (II) Tetra pyridinoporphyrazines to Calf Thymus DNA", New Journal of Chemistry, 2004



- زهرا آل خمیس، مهدیه مصطفوی، لیلا حسنی، فخریالسادات محمدی، خسرو محمدی، "اثر ضد باکتریایی بر بین و کمپلکس‌های کورکومین علیه باکتری‌های اشربیشیا کلی و باسیلوس پامیلوس و مقایسه سمیت سلولی آنها بر روی سلولهای سرطانی مثانه و معده"، مجله علمی دانشگاه علوم پزشکی گرگان، 1397
- لیلا حسنی، الهام صفائی، فاطمه حکیمیان، صفیه صوفیان، "بررسی ترمودینامیکی برهمکنش پورفیرازین و فتالوسیانین با دی‌ان‌ای چهار رشته‌ای تلومر انسانی"، مجله زیست فناوری مدرس، 1397