

به نام خدا

مشخصات فردی

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پژوهشگاه ملی مهندسی ژنتیک و زیست فن آوری

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سوابق پژوهشی - آموزشی

- استاد تمام گروه مهندسی زیست فرآیند پژوهشگاه ملی مهندسی ژنتیک و زیست فن آوری، ۱۴۰۳- تاکنون
- پژوهشگر میهمان دانشگاه فنی براسواک آلمان، ۱۳۹۸-۱۴۰۰
- دانشیار گروه مهندسی زیست فرآیند پژوهشگاه ملی مهندسی ژنتیک و زیست فن آوری، ۱۳۹۶-۱۴۰۳
- استادیار گروه مهندسی زیست فرآیند پژوهشگاه ملی مهندسی ژنتیک و زیست فن آوری، ۱۳۹۱-۱۳۹۶
- دکتری شیمی آلی - دانشگاه شهید بهشتی، ۱۳۹۰
- فرصت مطالعاتی-دانشگاه مادرید- اسپانیا، ۱۳۸۹

افتخارات

- سرآمد علمی ایران در سال ۱۴۰۳- معاونت علمی ریاست جمهوری
- برگزیده پژوهشگر تاثیرگذار پژوهشگاه ملی مهندسی ژنتیک و زیست فناوری، سال ۱۴۰۳
- پژوهشگر برتر پژوهشگاه ملی مهندسی ژنتیک و زیست فناوری، سال ۱۴۰۲
- سرآمد علمی ایران در سال ۱۴۰۰- معاونت علمی ریاست جمهوری
- دریافت بورس پژوهشی دو ساله بنیاد الکساندر فان هامبولت از کشور آلمان، سال ۱۳۹۸
- برگزیده جوان جایزه زیست فن آوری کشور- ستاد زیست فن آوری معاونت علمی ریاست جمهوری، سال ۱۳۹۸
- استاد نمونه پژوهشگاه ملی مهندسی ژنتیک و زیست فن آوری، سال ۱۳۹۸
- برگزیده جایزه تحقیقاتی شیمی سبز یونسکو-IUPAC، سال ۱۳۹۵
- دریافت گرنت تحقیقاتی از آکادمی جهانی علوم THE WORLD ACADEMY OF SCIENCES (TWAS)- سال ۱۳۹۴
- سرآمد علمی ایران در سال ۱۳۹۶- بنیاد سرآمدان علمی ایران
- پژوهشگر برتر استان زنجان-برگزیده بنیاد ملی نخبگان، سال ۱۳۹۰

فعالیت‌های علمی و اجرایی

- عضو حقیقی هیئت ممیزه پژوهشگاه ملی مهندسی ژنتیک و زیست فناوری ۱۴۰۲-۱۴۰۴
- مسئول کمیته بازنگری آیین نامه پژوهشی پژوهشگاه ملی مهندسی ژنتیک و زیست فناوری ۱۴۰۳
- مشاور ریاست محترم پژوهشگاه ملی مهندسی ژنتیک و زیست فناوری در امور نخبگان ۱۴۰۳-۱۴۰۵
- عضو کمیته علم سنجی پژوهشگاه ملی مهندسی ژنتیک و زیست فناوری ۱۴۰۲-تاکنون
- مدیر گروه مهندسی زیست فرآیند در پژوهشگاه ملی مهندسی ژنتیک و زیست فن آوری ۱۳۹۷-۱۳۹۹
- دست یابی به دانش فنی، تولید و فروش رزین تخلیص پروتئینها در سطح کشور ۱۳۹۷
- دبیر اجرایی همایش ملی شیمی زیست فن آوری ۱۳۹۶
- سخنران مدعو در اولین کنفرانس کاتالیست ایران، زنجان ۱۳۹۸
- سخنران مدعو در چهل و پنجمین کنگره جهانی شیمی- بوسان، کره جنوبی- ۱۳۹۵

- سخنران مدعو در کنفرانس ملی یافته های نوین در زیست شناسی - تهران - ۱۳۹۳
- مجری ۳ طرح پژوهشی اختتام یافته از صندوق حمایت از پژوهشگران کشور در سالهای ۱۳۹۷، ۱۳۹۵، ۱۳۹۲
- مجری طرح پژوهشی اختتام یافته از ستاد زیست فن آوری کشور ۱۳۹۹
- مجری ۵ طرح اختتام یافته یا در حال اجرا در پژوهشگاه ملی مهندسی ژنتیک و زیست فن آوری
- مسئول آزمایشگاههای پژوهشکده صنعت و زیست فن آوری پژوهشگاه ملی مهندسی ژنتیک و زیست فن آوری - ۱۳۹۶
- داور مقالات بیش از ۱۵ ژورنال معتبر بین المللی

زمینه تحقیقاتی

طراحی و کاربرد واکنشهای آنزیمی در فرآیندهای شیمیایی

مقالات

Ayda Ghahari, Alireza Alikhanian, Fatemeh Akhond Solaei, Arghavan Fattahi, Hamdam Hourfar, Anett Schallmey, **Mehdi Mohammadi***, Dina Morshedi, Beyond Amyloids: Neuroprotective Potential of Betanin and its Derivatives Against Alpha-Synuclein Aggregates and ROS Overload in Parkinson's Disease, *Journal of Molecular Neuroscience* (2026) 76.

Soheil Golisani, Hossein Ahmadi, Seyed Mehdi Qafari, Pegah Mohtaj, AliAasghar Karkhane, **Mehdi Mohammadi***, Covalent immobilization of 4, 5-DOPA extradiol dioxygenase (DODA): The crucial role of His-tag position on the activity of the immobilized enzyme, *International Journal of Biological Macromolecules*, (2026) 151983.

Samira Ghaedmohammadi, Saghi Nooraei, Faezeh Ahrari, Faezeh Moosavi, **Mehdi Mohammadi***, Gholamreza Ahmadian, Thermostable and recyclable *Candida antarctica* lipase B immobilized on *Bacillus subtilis* using sortase technology, *Microbiology Spectrum* (2025) 13, e01121-25.

Mehdi Mohammadi*, Ali Ramazani, Maryam Garmroodi, Maryam Yousefi, Alireza Yazdi, Resolution of ibuprofen enantiomers by *Rhizomucor miehei* lipase (RML) immobilized via physical and covalent attachment, *Modares Journal of Biotechnology* (2025) 10, 351-361.

Somayeh Ghaffari Ganzagh, Ali Reza Yousefi, Abbas Rahdar, **Mehdi Mohammadi**, Lignin-based nanoencapsulation for sustainable herbicide delivery: controlled release and bioactivity of 2, 4-D and MCPA compared to commercial formulations, *Scientific Reports* (2025) 15, 245327.

Mitra P Lish, Maryam Ashjari, Maryam Yousefi, **Mehdi Mohammadi***, Ali Ramazani, Immobilized *Candida antarctica* lipase B (CALB) for biodiesel production from rapeseed oil; evaluation of the effect of immobilization protocol, *International Journal of Biological Macromolecules* (2025) 297, 139814.

Mansour Shahedi, Faezeh Ahrari, **Mehdi Mohammadi***, Multi-component reactions in protein modification and immobilization, *ChemBioChem*, (2025) e202401010,

Mansour Shahedi, Rojina Shahani, Niloofar Omid, Zohreh Habibi, Maryam Yousefi, **Mehdi Mohammadi***, Laccase-mediated chemoselective C-4 arylation of 5-aminopyrazoles. *PloS one* 9 (2024) 19, e0308036.

Faezeh Ahrari, Mitra Pourmohammadi Lish, Maryam Yousefi, **Mehdi Mohammadi***, Improving the stability of an unstable lipase by applying different immobilization strategies for the selective hydrolysis of fish oil, *Journal of the American Oil Chemists' Society*, (2024) 101, 839-850.

Faezeh Ahrari, Maryam Yousefi, **Mehdi Mohammadi***, The effect of carbon chain length of cross-linking agent on the functionality of carrier-free immobilized *Thermomyces lanuginosa* lipase particles, *International Journal of Biological Macromolecules* (2024) 270, 132076.

Faezeh Ahrari, **Mehdi Mohammadi***, Combined cross-linking of *Rhizomucor miehei* lipase and *Candida antarctica* lipase B for the effective enrichment of omega-3 fatty acids in fish oil, *International Journal of Biological Macromolecules* (2024) 260, 129362.

Mehdi Mohammadi*, Mansour Shahedi, Faezeh Ahrari, Mostafa Mostafavi, Zohreh Habibi, and Maryam Yousefi, Isocyanide-based multi-component reactions for carrier-free and carrier-bound covalent immobilization of enzymes. *Nature Protocols*. (2023) 1-17

Kazem Mahmoudzadeh, Zohreh Habibi, Maryam Yousefi, Mostafa Mostafavi, **Mehdi Mohammadi**, Peptilgase, an enzyme for efficient chemo-enzymatic synthesis of aviaptadil *International Journal of Biological Macromolecules*, (2023), 127089

Mansour Shahedi, Niloofar Omid, Zohreh Habibi, Behrouz Notash, **Mehdi Mohammadi**, Biocatalytic stereoselective synthesis of pyrrolidine-2,3-diones containing all-carbon quaternary stereocenters, *Organic and Biomolecular Chemistry*, (2023) 21(13), 2742–2747

Negin Neissari, Mansour Shahedi, Zohreh Habibi, Hossein Bavandi, **Mehdi Mohammadi***, Biocatalytic synthesis of oxadiazole thioethers and evaluation of their antitumor activity, *Organic and Biomolecular Chemistry*, (2023) 21(23), 4846–4853

Mostafa Mostafavi, Mahtab Beihaghi Poor, Zohreh Habibi, **Mehdi Mohammadi**, Maryam Yousefi, Hyperactivation of lipases by immobilization on superhydrophobic graphene quantum dots inorganic hybrid nanoflower, *International Journal of Biological Macromolecules*, (2024) 254, 127817.

Faezeh Ahrari, Maryam Yousefi, Zohreh Habibi, **Mehdi Mohammadi***: Cross-linked lipase particles with improved activity; application of a non-toxic linker for cross-linking. *LWT - Food Science and Technology*, (2023) 173, 114371.

Mostafa Mostafavi, Kazem Mahmoodzadeh, Zohreh Habibi, Maryam Yousefi, Jasper Brask, **Mehdi Mohammadi**, Immobilization of *Bacillus amyloliquefaciens* protease “Neutrase” as hybrid enzyme inorganic nanoflower particles: A new biocatalyst for aldol-type and multicomponent reactions, *International Journal of Biological Macromolecules*, (2023) 123140.

Mansour Shahedi, Niloofar Omid, Zohreh Habibi, Maryam Yousefi, Jesper Brask, Behrouz Notash, **Mehdi Mohammadi**, Biocatalytic stereoselective synthesis of pyrrolidine-2, 3-diones containing all-carbon quaternary stereocenters, *Organic & Biomolecular Chemistry*, 21 (2023) 2742-2747

Mansour Shahedi, Rozina Shahani, Zohreh Habibi, Maryam Yousefi, Jasper Brask, Arash Minai-Tehrani, Fatemeh Yazdi Samadi, and **Mehdi Mohammadi**, Diarylation of thiazolo pyrimidins by laccase and their in vitro evaluation as antitumor agents. *Scientific reports*, 12 (2022) 22326-22338

Narges Alikhani, Mansour Shahedi, Zohreh Habibi, Maryam Yousefi, Sabriyeh Ghasemi, **Mehdi Mohammadi***, A multi-component approach for co-immobilization of lipases on silica-coated magnetic nanoparticles: improving biodiesel production from waste cooking oil, *Bioprocess and Biosystems Engineering*, (2022) 1-18.

Mohamad Reza Safarpour Moguei, Zohreh Habibi, Mansour Shahedi, Maryam Yousefi, Abouzar Alimoradi, Sepideh Mobini, **Mehdi Mohammadi**, Immobilization of *Thermomyces lanuginosus* lipase through isocyanide-based multi component reaction on multi-walled carbon nanotube:

-
- application for kinetic resolution of rac-ibuprofen, *Biotechnology Reports* 35 (2022) e00759.
- Hosein Bavandi, Mansour Shahedi, Zohreh Habibi, Maryam Yousefi, Jasper Brask, **Mehdi Mohammadi**, Biocatalytic decarboxylative Michael addition for synthesis of 1, 4-benzoxazinone derivatives, *Scientific reports* 12 (2022) 1-10.
- Faezeh Moosavi, Faezeh Ahrari, Gholamreza Ahmadian, **Mehdi Mohammadi***, Sortase-mediated immobilization of *Candida Antarctica* lipase B (CalB) on grapheme oxide; comparison with chemical approach, *Biotechnology Reports*, 34 (2022) e00733.
- Yalda Amini, Mansour Shahedi, Zohreh Habibi, Maryam Yousefi, Maryam Ashjari, **Mehdi Mohammadi***, A multi-component reaction for covalent immobilization of lipases on amine-functionalized magnetic nanoparticles: production of biodiesel from waste cooking oil, *Bioresources and Bioprocessing* 60 (2022).
- Soha Parsafar, Farhang Aliakbari, Sepide Fatemi, Zahra Najarzadeh, Hamdam Hourfar, **Mehdi Mohammadi***, Dina Morshedi, Insights into the biological activity and inhibitory mechanism of skullcapflavone II against α -synuclein aggregation and its mediated cytotoxicity, *International Journal of Biological Macromolecules*, 209 (2022) 426-440.
- Faezeh Ahrari, Maryam Yousefi, Zohreh Habibi, **Mehdi Mohammadi***, Application of Undecanedicarboxylic acid to prepare cross-linked enzymes (CLEs) of *Rhizomucor miehei* lipase (RML); selective enrichment of polyunsaturated fatty acids, *Molecular Catalysis*, 520 (2022) 112172.
- M Ashjari, M Garmroodi, F Ahrari, M Yousefi, **M Mohammadi***, Soluble enzyme cross-linking via multi-component reactions: a new generation of cross-linked enzymes, *Chem. Comm.*, 56 (2021) 9683-9686.
- G Daneshvari, A.R Yousefi, **M Mohammadi**, S Banibairami, P Shariati, A Rahdar, G.Z Kyzas, Controlled-release Formulations of Trifluralin Herbicide by Interfacial Polymerization as a Tool for Environmental Hazards, *Biointerface Research in Applied Chemistry*, 11 (2021) 13866 – 13877.
- M Shahedi, Z Habibi, M Yousefi, J Brask, **M Mohammadi**, Improvement of biodiesel production from palm oil by co-immobilization of *Thermomyces lanuginosa* lipase and *Candida antarctica* lipase B: Optimization using response surface methodology, *International Journal of Biological Macromolecules*, 170 (2021) 490-502.
- M Yousefi, M Marciello, JM Guisan, G Fernandez-Lorente, **M Mohammadi***, Fine modulation of the catalytic properties of *Rhizomucor miehei* lipase driven by different immobilization strategies for the selective hydrolysis of fish oil, *Molecules* 25 (2020), 545.
- S Parsafar, Z Nayeri, F Aliakbari, F Shahi, **M Mohammadi***, D Morshedi, Multiple neuroprotective features of *Scutellaria pinnatifida*-derived small molecule, *Heliyon*, (2020) e04737.
- E Memari, A Maghsoudi, F Yazdian, M Yousefi, **M Mohammadi***, Synthesis of PHB-co-PEI nanoparticles as gene carriers for miR-128-encoding plasmid delivery to U87 glioblastoma cells. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 599 (2020) 124898.
- M Ashjari, M Garmroodi, F Amiri Asl, M Emampour, M Yousefi, M Pourmohammadi Lish, Zh Habibi, **M Mohammadi***, Application of multi-component reaction for covalent immobilization of two lipases on aldehyde-functionalized magnetic nanoparticles; production of biodiesel from waste cooking oil, *Process Biochemistry*, 90 (2020) 156-167.
-

H Ahmadi, Z Nayeri, Z Minuchehr, F Sabouni, **M Mohammadi***, Betanin purification from red beetroots and evaluation of its anti-oxidant and anti-inflammatory activity on LPS-activated microglial cells, *Plos one*, (2020) e0233088.

Sadeghi Z, Maleki P, Shahabi F, Bondarkhilli S A M, Masoumi M, Taheri M, **Mohammadi M**, Raheb J, Surface modification of superparamagnetic iron oxide (SPION) and comparison of cytotoxicity effect of mPEG2000-PEI-SPION and mPEG750-PEI-SPION on the human embryonic carcinoma stem cell, NTERA2 cell line, *Human Antibodies*, 28 (2020) 159-167.

Davaeifar S, Modarresi MH, **Mohammadi M**, Hashemi E, Shafiei M, Maleki H, Vali H, Shahbani Zahiri H, Synthesizing, Characterizing, and Toxicity Evaluating of Phycocyanin-ZnO Nanorod Composites: A Back toward cleaner Approaches, *Colloids Surf B Biointerfaces*, 175 (2019) 221-230.

Shahedi M, Habibi Z, Yousefi M, **Mohammadi M**, Co-immobilization of Rhizomucor miehei lipase and Candida antarctica Lipase B and Optimization of biocatalytic biodiesel production from palm oil using response surface methodology, *Renewable energy*, 141(2019) 847-857.

Z Sadeghi, P Maleki, SAM Bondarkhilli, **M Mohammadi**, J Raheb, Dataset on cytotoxicity effect of polyethylenimine-functionalized graphene oxide nanoparticles on the human embryonic carcinoma stem cell, NTERA2 cell line, *Data in brief* 26 (2019) 104487.

Salami F, Habibi Z, Yousefi M, **Mohammadi M**, Covalent immobilization of laccase by one pot three component reaction and its application for textile dye degradation, *International Journal of Biological Macromolecules*, 120 (2018), 144-151.

M Mohammadi*, A Ramazani, M Garmroodi, M Yousefi, A Yazdi, Resolution of Ibuprofen Enantiomers by Rhizomucor miehei Lipase (RML) Immobilized via Physical and Covalent Attachment, *Modares Journal of Biotechnology* 10 (2019) 351-361.

Mohammadi M*, Habibi Z, Gandomkar S, Yousefi M, A novel approach for bioconjugation of Rhizomucor miehei lipase (RML) onto aminefunctionalized supports; Application for enantioselective resolution of *rac*-ibuprofen, *International Journal of Biological Macromolecules*, 117 (2018) 523–531.

Qafari SM, Ahmadian G, **Mohammadi M***, One-step purification and oriented attachment of Protein A on silica and graphene oxide nanoparticles using sortase-mediated immobilization, *RSC Adv.*, 7 (2017) 56006-56015.

Khodaei S, Ghaedmohammadi S, **Mohammadi M**, Rigi G, Zadmard R, Ahmadian G, Covalent immobilization of protein A on chitosan and aldehyde double-branched chitosan as biocompatible carriers for IgG purification, *Journal of Chromatographic Science*, 2018, 1-8.

Mohammadi M*, As'habi MA, Salehi P, Yousefi M, Nazari M, Brask J, Immobilization of laccase on epoxy-functionalized silica and its application in biodegradation of phenolic compounds, *International Journal of Biological Macromolecules*, 109 (2018) 443-447.

Babaki M, Habibi Z, Yousefi M., **Mohammadi M**, Process optimization for biodiesel production from waste cooking oil using multi-enzyme systems through response surface methodology, *Renewable Energy*, 105 (2017), 465–472.

Mehrasbi MR, Mohammadi J, **Mohammadi M***, Peida M, Covalent immobilization of Candida antarctica lipase on core-shell magnetic nanoparticles for production of biodiesel from waste cooking oil, *Renewable Energy*, 101 (2017) 593-602.

Mohammadi M*, Ashjari M, Garmroodi M, Yousefi M, Karkhane AA, The use of isocyanide-

based multicomponent reaction for covalent immobilization of Rhizomucor miehei lipase on multiwall carbon nanotubes and graphene nanosheets
RSC Advances, 6 (2016), 72275-72285

Mohammadi M*, Gandomkar S, Habibi Z, Yousefi M, One pot three-component reaction for covalent immobilization of enzymes: application of immobilized lipases for kinetic resolution of rac-ibuprofen, *RSC Advances*, 6 (2016), 52838-52849.

Babaki M, Yousefi M, Habibi Z, **Mohammadi M**, Yousefi P, Mohammadi J, Enzymatic production of biodiesel using lipases immobilized on silica nanoparticles as highly reusable biocatalysts: effect of water, t-butanol and blue silica gel contents, *Renewable Energy*, 91(2016) 196-206

Garmroodi M, **Mohammadi M***, Ramazani A, Ashjari M, Yousefi M, Mohammadi J, Sabour B, Covalent binding of hyper-activated Rhizomucor miehei lipase on hetero-functionalized siliceous supports, *International Journal of Biological Macromolecules*, 86 (2016) 208–215.

Gandomkar S, Habibi Z, **Mohammadi M***, Maryam Yousefi, Masoomah Salimi, S.Enantioselective resolution of racemic ibuprofen esters using different lipases immobilized on epoxy-functionalized silica, *Biocatalysis and Agricultural Biotechnology*, 4 (2015) 550-554.

Ashjari M, **Mohammadi M***, Badri R, Selective concentration of eicosapentaenoic acid and docosahexaenoic acid from fish oil with vimmobilized/stabilized preparations of Rhizopus oryzae lipase, *Journal of Molecular Catalysis B: Enzymatic*, 122 (2015) 147-155.

Babaki M, Yousefi M, Habibi Z, **Mohammadi M**, Brask J, Effect of water, organic solvent and adsorbent contents on production of biodiesel fuel from canola oil catalyzed by various lipases immobilized on epoxy-functionalized silica as low cost biocatalyst, *Journal of Molecular Catalysis B: Enzymatic*, 120 (2015) 93-99.

Yousefi M, Habibi Z, **Mohammadi M**, Nazari S, Momeni M, Lipase-catalysed addition of pyrrolidine to chalcone and benzylidene malonate derivatives, *Chemistry of natural compounds*, 51 (2015) 861-864.

Babaki M. Yousefi M, Habibi Z, Brask J, **Mohammadi M**, Preparation of highly reusable biocatalysts by immobilization of lipases on epoxy-functionalized silica for production of biodiesel from canola oil, *Biochemical Engineering Journal* 101 (2015) 23–31

Mohammadi M*, Ashjari M, Dezvarei Sh, Yousefi M, Babaki M, Mohammadi J, Rapid and high-density covalent immobilization of Rhizomucor miehei lipase using a multi component reaction: application in biodiesel production, *RSC Advances* 5 (2015) 32698-32705.

Ashjari M, **Mohammadi M***, Badri R, Chemical amination of Rhizopus oryzae lipase for multipoint covalent immobilization on epoxy-functionalized supports: Modulation of stability and selectivity, *Journal of Molecular Catalysis B: Enzymatic* 115 (2015) 128–134.

Mohammadi M*, Habibi Z, Dezvarei Sh, Yousefi M, Selective enrichment of polyunsaturated fatty acids by hydrolysis of fish oil using immobilized and stabilized Rhizomucor miehei lipase preparations, *Food and bioproduct processing*, 94 (2015) 414–421.

Mohammadi M*, Habibi Z, Dezvarei Sh, Yousefi M, Ashjari M, Samadi S. Improvement of the stability and selectivity of Rhizomucor miehei lipase immobilized on silica nanoparticles: Selective hydrolysis of fish oil using immobilized preparations, *Process Biochemistry* 49 (2014) 1314-1323

Yousefi M, **Mohammadi M**, Habibi Z, Enantioselective resolution of racemic ibuprofen esters

using different lipases immobilized on octyl sepharose, *Journal of Molecular Catalysis B: Enzymatic* 104 (2014) 87–94.

Habibi Z, **Mohammadi M**, Yousefi M. Enzymatic hydrolysis of racemic ibuprofen esters using Rhizomucor miehei lipase immobilized on different supports, *Process Biochemistry* 48 (2013) 669.

Habibi Z, Yousefi M, Ghanian S, **Mohammadi M**, Ghasemi S, Biotransformation of progesterone by Absidia griseolla var. igachii and Rhizomucor pusillus, *Steroids* 77 (2012) 1446.

Mohammadi M, Yousefi M, Habibi Z, Dastan D, Chemical composition and antioxidant activity of the essential oil of Petasites Albus from Iran: A good natural source of Euparin, *Natural Product Research*, 26 (2012) 291.

Mohammadi M, Ghavidel M, Habibi Z, Ashabi MA, Chemical composition of the essential oil of Haussknechtia elymaitica Bioss. from Iran: A good natural source for trans-asaron, *Natural Product Research*, 26 (2012) 1229.

Yousefi M, **Mohammadi M**, Habibi Z, Cheraghi Z, Nitrile biotransformation by whole cells of Aspergillus sp. PTCC 5266, *Biocatalysis and Biotransformation*, 29 (2011) 54.

Yousefi M, **Mohammadi M**, Habibi Z, Disulphides in the volatile oil of Ferula behboudiana *Natural Product Research*, 25 (2011) 1629. ,Rech. f. & Esfand

Yousefi M, **Mohammadi M**, Habibi Z, Shafiee A, Biotransformation of Progesterone by Acremonium chrysogenum and Absidia griseolla var. igachii, *Biocatalysis and Biotransformation*, 28 (2010) 259.

Mohammadi M, Yousefi M, Habibi Z, Highly enantioselective bioreduction of prochiral ketones by stem and germinated plant of Brassica oleracea variety italic, *Biocatalysis and Biotransformation*, 29 (2011) 328.

Najafabadi RE, **Mohammadi M**, Yousefi M, Habibi Z, Chemical Composition and Antibacterial Activity of Essential Oils from Flowers, Seeds and Stems of Heracleum rechingeri (Manden) from Iran, *Journal of Essential Oil-Bearing Plants*, 14 (2011) 746.

Habibi Z, Hassan ZM, Noori Sh, Mozafari V, Yousefi M, **Mohammadi M**, Hassani L, Interaction of salvigenin with DNA, *Daneshvar medicine journal* (in Persian), 12 (2011) 1-9.

Yousefi M, **Mohammadi M**, Habibi Z, Shafiee A, Two new coumarins from the chloroform extract of Angelica urumiensis from Iran, *Chem. Pharm. Bull.* 54 (2010) 546.

Yousefi M, **Mohammadi M**, Habibi Z, Shafiee A, New polysulfanes from aerial parts of Ferula 24 (2010) 1352. , *Natural Product Research*, behboudiana Rech. f. & Esfand

Noori S, Hassan ZM, **Mohammadi M**, Habibi Z, Sohrabi N, Bayanolhagh S, Sclareol modulates the Treg intra-tumoral infiltrated cell and inhibits tumor growth in vivo, *Cellular Immunology* 263 (2010) 148.

Mohammadi M, Yousefi M, Habibi Z, Rahmati S, Imanzadeh G, Volatile constituents of Salvia ceratophylla L. and Salvia indica L. from Iran, *Journal of Essential Oil-Bearing Plants*, 13 (2010) 774.

Habibi Z, Eshaghi R, **Mohammadi M**, Yousefi M, Chemical composition and antibacterial activity of essential oil of Heracleum rechingeri (manden) from Iran, *Natural Product Research*, 24 (2010) 1013.

Hosseini SH, **Mohammadi M**, Spectroscopic, thermal and crystal structure properties of 4-nitro-4'-[N-ethyl-N-(2-hydroxyethyl)-amino]azobenzene acrylate dye, *world applied science journal*, 10 (2010) 138.

Mohammadi M, Yousefi M, Habibi Z, Essential oils from stem and leaves of *Angelica urumiensis* (Mozaffarian) from Iran. *Natural Product Research*, 24 (2010) 1347.

Habibi Z, Yousefi M, **Mohammadi M**, Eftekhari F, Biniyaz T, Rustaiyan A, The chemical composition and antibacterial activity of the volatile oils from *Artemisia turcomanica* Gand, *Chemistry of Natural Compounds*, 46 (2010) 819.

Hosseini SH, **Mohammadi M**, Preparation and characterization of new poly-pyrrole having side chain liquid crystalline moieties, *Materials Science and Engineering C Materials for Biological Applications*, 29 (2009) 1503.

ثبت اختراع

A resin for simple purification of His-tagged proteins (Iranian Patent Organization, Patent Number: IR.81226).

A resin for purification of GST-tagged proteins (Iranian Patent Organization, Patent Number: IR.92813).

A method for the effective purification of Betanin from red beetroots (Iranian Patent Organization, Patent Number: IR.98562)