



Prof. Dr. Ali Maleki

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Professor Ali Maleki was born in 1980. He received his Ph.D. in Chemistry from Shahid Beheshti University under supervision of Prof. Shaabani in 2009. He started his career as an Assistant Professor in Department of Chemistry, *IUST* in 2010 where he is currently Full Professor. His research interests focus on design and development of novel multicomponent reactions, organic synthesis, natural and synthetic polymers, heterocycles, pharmaceutical compounds, nanochemistry, magnetic, composite, hybrid, core/shell nanomaterials, catalysts and catalytic reactions, medicinal and green chemistry. Prof. Dr. Maleki has hundreds of ISI-JCR publications, book chapters and executed industrial and applied projects. He has been selected as a distinguished researcher of IUST within 2010-2020. He has awarded IUPAC-CHEMRAWN VII prize for green chemistry in 2016. Dr. Maleki has been ranked as top 1% International Scientists in ESI (Web of Science) in 2018-2020. He had more than 20 highly cited papers in 2010-2020. His H-index is currently 50 including more than 7000 citations.

A Few Selected Recent Publications

- A historical overview of the activation and porosity of metal–organic frameworks. *Chem. Soc. Rev.* (IF = 42.8) **2020**, *49*, 7406-7427.
- Multi-Stimuli Nanocomposite Therapeutic: Docetaxel Targeted Delivery and Synergies in Treatment of Human Breast Cancer Tumor. *Small* (IF = 11.5) **2020**, *16*, 2002733.
- Development of biosensors for detection of alpha-fetoprotein: As a major biomarker for hepatocellular carcinoma. *Trends Anal. Chem.* (IF = 9.8) **2020**, *130*, 115961.
- High-performance HTL-free perovskite solar cell: An efficient composition of ZnO NRs, RGO, and CuInS₂ QDs, as electron-transporting layer matrix. *Prog. Photovolt. Res. Appl.* (IF = 7.7) **2020**, *28*, 956-970.
- Cellulose matrix embedded copper decorated magnetic bionanocomposite as a green catalyst in the synthesis of dihydropyridines and polyhydroquinolines. *Carbohydr. Polym.* (IF = 7.2) **2019**, *208*, 251-260.
- A green, porous and eco-friendly magnetic geopolymer adsorbent for heavy metals removal from aqueous solutions. *J. Clean. Prod.* (IF = 7.2) **2019**, *215*, 1233-1245.
- Enhanced activity of vancomycin by encapsulation in hybrid magnetic nanoparticles conjugated to a cell-penetrating peptide. *Nanoscale* (IF = 6.9) **2020**, *12*, 3855-3870.
- Green oxidation protocol: Selective conversions of alcohols and alkenes to aldehydes, ketones and epoxides by using a new multiwall carbon nanotube-based hybrid nanocatalyst via ultrasound irradiation. *Ultrason. Sonochem.* (IF = 6.5) **2018**, *40*, 460-464.
- Magnetic dextrin nanobiomaterial: An organic-inorganic hybrid catalyst for the synthesis of biologically active polyhydroquinoline derivatives by asymmetric Hantzsch reaction. *Mater. Sci. Engin. C* (IF = 5.8) **2020**, *109*, 110502.
- Preparation of a novel magnetic bionanocomposite based on factionalized chitosan by creatine and its application in the synthesis of polyhydroquinoline, 1,4-dihydropyridine and 1,8-dioxodecahydroacridine derivatives. *Inter. J. Biol. Macromol.* (IF = 5.2) **2020**, *144*, 29-46.
- Preparation of a trihydrazinotriazine-functionalized core-shell nanocatalyst as an extremely efficient catalyst for the synthesis of benzoxanthenes. *Mater. Today Chem.* (IF = 4.6) **2020**, *18*, 100362.
- Eco-friendly functionalization of magnetic halloysite nanotube with SO₃H for synthesis of dihydropyrimidinones. *Microporous Mesoporous Mater.* (IF = 4.5) **2018**, *259*, 46-53.
- Mesoporous halloysite nanotubes modified by CuFe₂O₄ spinel ferrite nanoparticles and study of its application as a novel and efficient heterogeneous catalyst in the synthesis of pyrazolopyridine derivatives. *Sci. Rep.* (IF = 4.0) **2019**, *9*, 5552.
- Fe₃O₄/GO@melamine-ZnO nanocomposite: A promising versatile tool for organic catalysis and electrical capacitance. *Colloids Surf. A* (IF = 4.0) **2020**, *587*, 124335.