

## Publications

### 2024

108. Bhat, M.S.; Ganie, M.A.; Kumar, S.; Rizvi, M.A.; Raheem,S.; **Shah, B.A.\*** Visible light mediated synthesis of thioesters using thiocarboxylic acid as a dual reagent. *J. Org. Chem.*, **2024**, <https://doi.org/10.1021/acs.joc.3c02877>.
107. Ganie, M.A.; Ansari, S.M.; Choudhary,R.; Fayaz,F.; Kour,G.; Gupta,V.; Ahmed, Z.; Javed, S.; **Shah, B.A.\*** Investigation of an aminothiazole-based scaffold as an anti-inflammatory agent: Potential application in the management of cytokine storm in SARS-CoV-19. *J. Mol. Struct.*, **2024**, 1303, 137562.
106. Fayaz, F.;Singh,K. ;Gairola, S.;Ahmed, Z.; **Shah, B.A.\*** A Comprehensive Review on Phytochemistry and Pharmacology of Rosa Species (Rosaceae). *Curr. Top. Med. Chem.*, **2024**, 4, 364 - 378.

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105. Ganie, M.A.; Fayaz, F.; Bhat, M.S.; Rizvi, M.A.; Raheem,S.; **Shah, B.A.\*** Visible-Light-Mediated Synthesis of N-Acyl-N,O-hemiacetals from Terminal Alkynes: Access to N,N-, N,S-, and N,O-Acetals. *Org. Lett.*, **2023**, 8234–8239.
104. Choudhary,R; Saroch,D.; Kumar,D.; Anjum,S.; Andrabi,N.A.; Akram,T.; **Shah,B.A.**; Shukla,S.K.; Bhagat, A.; Kour, G.; Ahmed, Z. Anti-inflammatory and anti-arthritis potential of methotrexate in combination with BA-25, an amino analogue of  $\beta$ -boswellic acid in the treatment of rheumatoid arthritis. *Cytokine*, **2023**, 172, 156398
103. Kumar, S.; **Shah, B.A.\*** Exploring the Divergent Reactivity of Vinyl Radicals Emanating from Alkynes and Thiols via Photoredox Catalysis. *Chem. Asian J.* **2023**, 18, e202300693.
102. Bhat, M. S.;Ganie, M. A.;**Shah, B. A.\*** Metal-Free Tunable 1,2-Difunctionalization of Terminal Alkynes: Synthesis of  $\beta$ -Substituted  $\alpha,\beta$ -Unsaturated Ketones. *Chem.Eur.J.*, **2023**, e202302294
101. Ansari, S.M.; Khanum, G.; Rizvi, M.A.; Reshi, N.U.D.; Ganie, M.A.; Javed, S.; **Shah, B.A.\*** Studies towards investigation of Naphthoquinone-based scaffold with crystal structure as lead for SARS-CoV-19 management. *J. Mol. Struct.*, **2023**, 1283, 135256

### 2022

100. Ganie, M.A.; Bhat, M.S.; Rizvi, M.A.; Raheem, S.; **Shah, B.A.\*** Synthesis of 1,2-oxazetidines with a free -NH group via photoredox catalysis. *Chem Commun.*, **2022**,58, 8508-8511.
99. Kumar, J.; Ahmed, A.; Kumar,S.; Raheem,S.; Rizvi, M.A.; **Shah, B.A.\*** Visible light-mediated synthesis of  $\alpha$ -alkoxy/hydroxy diarylacetaldehydes from terminal alkynes. *New J. Chem.*, **2022**, 46, 10967-10973
98. Qayum, A.; Magotra, A.; Shah, S.M.; Nandi, U.; Sharma,P.R.; **Shah, B.A.**; Singh, S.K. Synergistic combination of PMBA and 5-fluorouracil (5-FU) in targeting mutant KRAS in 2D and 3D colorectal cancer cells. *Heliyon*, **2022**, 8, e09103.

97. Mahajan, N.; Koul, B.; Gupta, P.; **Shah, B.A.**; Singh, J. *Psoralea corylifolia* L.: Panacea to several maladies. *South African Journal of Botany*, **2022**, 149, 963-993
96. Kumar, S.; Kumar, J.; Naqvi, T.; Raheem, S.; Rizvi, M.A.; **Shah, B. A.\*** Synthesis of (E)- $\beta$ -Iodovinyl Sulfones via Photoredox Catalyzed Difunctionalization of Terminal Alkynes. *ChemPhotoChem*, **2022**, 6, e202200110.
95. Koul, B.; Kaur, J.; Bishnoi, M.; Gupta, P.; Kumar, A.; **Shah, B.A.**; Mubeen, I.; Rai, A.K.; Prasad, R.; Singh, J. Antiobesity Potential of Bioactive Constituents from Dichloromethane Extract of *Psoralea corylifolia* L. Seeds. *BioMed Research International*, **2022**, 9504787.
94. Qayum, A.; Singh, J.; Kumar, A.; Shah, S.M.; Srivastava, S.; Kushwaha, M.; Magotra, A.; Nandi, U.; Malik, R.; **Shah, B.A.\***; Singh, S.K. 2-Pyridin-4-yl-methylene-beta-boswellic Acid-A Potential Candidate for Targeting O6-Methylguanine-DNA Methyltransferase Epi-transcriptional Reprogramming in KRAS G13D-Microsatellite Stable, G12V-Microsatellite Instable Mutant Colon Cancer. *ACS Pharmacol. Transl. Sci.* **2022**, 5, 306-320.
93. Ganie, M.A.; Bhat, M.S.; ; Rizvi, M.A.; Raheem, S.; **Shah, B.A.\*** Photoredox-Promoted Selective Synthesis of C-5 Thiolated 2-Aminothiazoles from Terminal Alkynes. *Org. Lett.*, **2022**, 24 (42), 7757-7762
92. Bhat, M.S.; Ganie, M.A.; Rizvi, M.A.; Raheem, S.; **Shah, B.A.\*** Photoredox Catalyzed Thioformylation of Terminal Alkynes Using Nitromethane as a Formyl Source. *Org. Lett.*, **2022**, 24 (36), 6658-6663
91. Shah, I.H.; Kumar, S.; Kumar, J.; Raheem, S.; Rizvi, M.A.; **Shah, B.A.\*** Visible-Light-Mediated Synthesis of  $\alpha$ -Halomethyl Ketones from Terminal Alkynes *ChemPhotoChem*, **2022**, 6, e20210023

## 2021

90. Chalotra, N.; Shah, I.H.; Raheem, S.; Rizvi, M.A.; **Shah, B.A.\*** Visible-light-promoted oxidative annulation of naphthols and alkynes: Synthesis of functionalized naphthofurans. *J. Org. Chem.* **2021**, 86, 23, 16770-16784
89. Qayum, A.; Singh, J.; Kushwaha, M.; Singh, S.; **Shah, B.A.\***. PMBA (2-pyridin-4-yl methylene beta-boswellic acid) selectivity in targeting mutant KRAS G13D-MSS, G12V-MSI through MGMT immune epitranscriptional dynamics in Colon Cancer. *Cancer immunology research*, **2021** 9.
88. Chalotra, N.; Kumar, J.; Naqvi, T.; **Shah, B.A.\*** Photocatalytic functionalizations of alkynes. *Chem. Commun*, **2021**, 57, 11285-11300.
87. Manhas, F.M.; Kumar, J.; Raheem, S.; Thakur, P.; Rizvi, M.A.; **Shah, B.A.\*** Photoredox-Mediated Synthesis of  $\beta$ -Hydroxydithioacetals from Terminal Alkynes. *ChemPhotoChem*, **2021**, 5, 235-239

## 2020

86. Kumar, J.; Ahmad, A.; Rizvi, M. A.; Ganie, M. A.; Khajuria, C.; **Shah, B. A.\*** Photoredox-Mediated Synthesis of Functionalized Sulfoxides from Terminal Alkynes. *Org. Lett.*, **2020**, 22, 5661-5665.
85. Chalotra, N.; Sultan, S.; **Shah, B. A.\*** Recent Advances in Photoredox Methods for Ketone Synthesis. *Asian J. Org. Chem.*, **2020**, 9, 863-881.

## 2019

84. Chalotra, N.; Rizvi, M. A.; **Shah, B. A.\*** Photoredox-Mediated Generation of gem-Difunctionalized Ketones: Synthesis of  $\alpha,\alpha$ -Aminothioketones. *Org. Lett.*, **2019**, *21*, 4793-4797.
83. Sultan, S.; Bhat, M.-u.-S.; Rizvi, M. A.; **Shah, B. A.\*** Visible Light-Mediated [2 + 2] Cycloaddition Reactions of 1,4-Quinones and Terminal Alkynes. *J. Org. Chem.*, **2019**, *84*, 8948-8958.
82. Sultan, S.; **Shah, B. A.\*** Carbon-Carbon and Carbon-Heteroatom Bond Formation Reactions Using Unsaturated Carbon Compounds. *The Chemical Record*, **2019**, *19*, 644-660.

## 2018

81. Chalotra, N.; Ahmed, A.; Rizvi, M. A.; Hussain, Z.; Ahmed, Q. N.; **Shah, B. A.\*** Photoredox Generated Vinyl Radicals: Synthesis of Bisindoles and  $\beta$ -Carbolines. *J. Org. Chem.*, **2018**, *83*, 14443-14456.
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79. Kouser, F.; Sharma, V. K.; Rizvi, M.; Sultan, S.; Chalotra, N.; Gupta, V. K.; Nandi, U.; **Shah, B. A.\*** Stereoselective synthesis of 3,4-di-substituted mercaptolactones via photoredox-catalyzed radical addition of thiophenols. *Tetrahedron Lett.*, **2018**, *59*, 2161-2166.
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70. Devari, S.; **Shah, B. A.\*** Visible light-promoted C-H functionalization of ethers and electron-deficient arenes. *Chem. Commun.*, **2016**, *52*, 1490-1493.
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63. Sultan, S.; Kumar, M.; Devari, S.; Mukherjee, D.; **Shah, B.A.\*** Copper-Manganese Spinel Oxide Catalyzed Synthesis of Amides and Azobenzenes via Aminyl Radical Cations. *ChemCatChem.*, **2016**, *8*, 703-707.
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