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| Turkish Journal          | Sulfonic acid-functionalized silica: a remarkably efficient heterogeneous reusable catalyst for the one-pot synthesis of 1,4-dihydropyridines   |
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| of                       |   |
| Chemistry                | Behzad MOHAMMADI <sup>1</sup> , Sayyed Mohammad HOSSEINI JAMKARANI <sup>1</sup> , Taghi A. KAMALI <sup>2</sup> ,<br>Mahmoud NASROLLAHZADEH <sup>3</sup> , Ali MOHAJERI <sup>2</sup>   |
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| 0                        | <u>Abstract:</u> An efficient one-pot method for the synthesis of 1,4-dihydropyridines from $\beta$ -dicarbonyl compounds, aldehyde, and ammonium acetate is reported using sulfonic acid-functionalized silica at 90 °C under solvent-free conditions with good to excellent yields. The catalyst is easily prepared, stable (up to 300 °C), reusable, and efficiently used under reaction conditions. |
| chem@tubitak.gov.tr      | <u><b>Key Words:</b></u> 1,4-Dihydropyridine, $\beta$ -dicarbonyl compounds, solid acid, SiO <sub>2</sub> -R-SO <sub>3</sub> H, heterogeneous catalyst  |
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