# Mohamed A Abdel-Rahman

List of Publications by Year
in descending order



| 14 | 185 | 1039406 9 | 1058022 14 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 14 | 14 | 14 | 73 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Theoretical investigations on the unimolecular decomposition mechanisms of isopropyl acetate. Journal of Molecular Structure, 2022, 1262, 133006. | 1.8 | 6 |
| 2 | Structures, Energetics, and Spectra of (NH) and (OH) Tautomers of 2-(2-Hydroxyphenyl)-1-azaazulene: A Density Functional Theory/Time-Dependent Density Functional Theory Study. ACS Omega, 2022, 7, 14222-14238. | 1.6 | 4 |
| 3 | Structures, energetics, and kinetics of H-atom abstraction from methyl propionate by molecular oxygen: Ab initio and DFT investigations. Computational and Theoretical Chemistry, 2021, 1196, 113119. | 1.1 | 15 |
| 4 | Atmospheric chemistry of oxazole: the mechanism and kinetic studies of the oxidation reaction initiated by OH radicals. New Journal of Chemistry, 2021, 45, 2237-2248. | 1.4 | 15 |
| 5 | A W1 computational study on the kinetics of initial pyrolysis of a biodiesel model: methyl propanoate. New Journal of Chemistry, 2021, 45, 19531-19541. | 1.4 | 7 |
| 6 | Ab initio-based kinetics of hydrogen atom abstraction from methyl propionate by H and CH3 radicals: a biodiesel model. Structural Chemistry, 2021, 32, 1857-1872. | 1.0 | 12 |
| 7 | Thermo-kinetic theoretical studies on pyrolysis of dimethoxymethane fuel additive. Fuel, 2021, 290, 119970. | 3.4 | 22 |
| 8 | First-principle kinetic studies of unimolecular pyrolysis of isopropyl esters as biodiesel surrogates. Theoretical Chemistry Accounts, 2021, 140, 1. | 0.5 | 8 |
| 9 | Mechanistic insights of the degradation of an O-anisidine carcinogenic pollutant initiated by OH radical attack: theoretical investigations. New Journal of Chemistry, 2021, 45, 5907-5924. | 1.4 | 10 |
| 10 | A computational study on the kinetics of pyrolysis of isopropyl propionate as a biodiesel model: DFT and ab initio investigation. Fuel, 2020, 281, 118798. | 3.4 | 18 |
| 11 | Simulated kinetics of the atmospheric removal of aniline during daytime. Chemosphere, 2020, 255, 127031. | 4.2 | 18 |
| 12 | Computational Studies on the Thermodynamic and Kinetic Parameters of Oxidation of 2-Methoxyethanol Biofuel via H-Atom Abstraction by Methyl Radical. Scientific Reports, 2019, 9, 15361. | 1.6 | 17 |
| 13 | First-principle studies on the gas phase OH-initiated oxidation of O-toluidine. Computational and Theoretical Chemistry, 2019, 1170, 112634. | 1.1 | 13 |
| 14 | Thermochemistry and Kinetics of the Thermal Degradation of 2-Methoxyethanol as Possible Biofuel Additives. Scientific Reports, 2019, 9, 4535. | 1.6 | 20 |