

Dr. R. Vinu Publications

1. Investigation on thermally aged natural ester oil for real time monitoring and analysis of transformer insulation R Sarathi, AJ Amalanathan, S Prakash, AK Mishra, R Gautam, R Vinu High Voltage 2019
2. Performance enhancement of hydrothermal liquefaction for strategic and sustainable valorization of de-oiled yeast biomass into green bio-crude J Chopra, D Mahesh, A Yerrayya, R Vinu, R Kumar, R Sen journal of Cleaner Production 227, 292-301 2019
3. Fast Pyrolysis of Guaiacol to Simple Phenols: Experiments, Theory and Kinetic Model A Yerrayya, U Natarajan, R Vinu Chemical Engineering Science 2019
4. Microwave-assisted and analytical pyrolysis of coking and non-coking coals: Comparison of tar and char compositions BR Reddy, B Shravani, B Das, PS Dash, R Vinu Journal of Analytical and Applied Pyrolysis 2019
5. Isothermal fast pyrolysis kinetics of synthetic polymers using analytical Pyroprobe JVI Krishna, OP Korobeinichev, R Vin Journal of analytical and applied pyrolysis 139, 482019
6. Development of Novel Imidazole-Poly (ethylene glycol) Solvent for the Conversion of Lignocellulosic Agro Residues to Valuable Chemicals P Dhar, AM Jose, G Piloni, R Vinu Industrial & Engineering Chemistry Research 2019
7. Microwave-Assisted Pyrolysis and Analytical Fast Pyrolysis of Macroalgae: Product Analysis and Effect of Heating Mechanism R Gautam, S Sivaprasad, BR Reddy, K Govindaraju, R Vinu Sustainable Energy & Fuels 1 2019
8. Unraveling the interactions in fast co-pyrolysis of microalgae model compounds via pyrolysis-GC/MS and pyrolysis-FTIR technique R Gautam, R Vinu Reaction Chemistry & Engineering 4 (2), 278-297 3 2019
9. Kinetics of thermal decomposition of PMMA at different heating rates and in a wide temperature range OP Korobeinichev, AA Paletsky, MB Gonchikzhapov, RK Glaznev, ... Thermochimica acta 671, 17-25 2 2019
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11. Selective production of phenols from lignin via microwave pyrolysis using different carbonaceous susceptors A Yerrayya, DV Suriapparao, U Natarajan, R Vinu Bioresource technology 270, 519-528 2 2018
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13. Application of the distributed activation energy model to the kinetic study of pyrolysis of Nannochloropsis oculata D Viju, R Gautam, R Vinu Algal research 35, 168-177 2018
14. Selective production of phenolics from waste printed circuit boards via microwave assisted pyrolysis DV Suriapparao, SP Batchu, S Jayasurya, R Vinu Journal of cleaner production 197, 525-533 8 2018
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16. Microwave-assisted co-pyrolysis of high ash Indian coal and rice husk: Product characterization and evidence of interactions BR Reddy, R Vinu Fuel processing technology 178, 41-52 2018

17. Understanding the physico-chemical and surface discharge properties of epoxy silicon carbide nanocomposites A Sahoo, R Gautam, R Vinu, R Jayaganthan, R Sarathi *Polymer Composites* 39 (9), 3268-3279 2 2018
18. Microwave assisted co-pyrolysis of biomasses with polypropylene and polystyrene for high quality bio-oil production DV Suriapparao, B Boruah, D Raja, R Vinu *Fuel processing technology* 175, 64-75 18 2018
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23. Feedstock Characterization for Pyrolysis and Gasification BR Reddy, R Vinu *Coal and Biomass Gasification*, 3-36 2018
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25. Thermal aging of cellulosic pressboard material and its surface discharge and chemical characterization S Thakur, R Sarathi, R Gautam, R Vinu *Cellulose* 24 5197-5210 2017
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27. Method of detecting the extent of oil degradation AK Basu, R Vinu, AK Tripathi *US Patent* 9,804,142 3 2017
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49. Production of phenolics via photocatalysis of ball milled lignin–TiO₂ mixtures in aqueous suspension V Nair, P Dhar, R Vin RSC Advances 6 (22), 18204-18216