Chinna Rajanna Kamatala

List of Publications by Citations

72 papers	570 citations	11 h-index	20 g-index
75 ext. papers	625 ext. citations	1.9 avg, IF	3.82 L-index

#	Paper	IF	Citations
72	Cadmium Chloride as an Efficient Catalyst for Neat Synthesis of 5-Substituted 1H-Tetrazoles. *Synthetic Communications*, **2009**, 39, 4479-4485	1.7	69
71	Methylene Blue - Ascorbic Acid: An Undergraduate Experiment in Kinetics. *Journal of Chemical Education*, **1997**, 74, 228	2.4	54
70	AMMONIUM NICKEL SULPHATE MEDIATED NITRATION OF AROMATIC COMPOUNDS WITH NITRIC ACID. *Synthetic Communications*, **2001**, 31, 1123-1127	1.7	50
69	Antimony Trioxide as an Efficient Lewis Acid Catalyst for the Synthesis of 5-Substituted 1H-Tetrazoles. *Synthetic Communications*, **2009**, 39, 426-432	1.7	28
68	Micellar Mediated Halodecarboxylation of β,γ-Unsaturated Aliphatic and Aromatic Carboxylic Acids: A Novel Green Hunsdiecker–Borodin Reaction. *Journal of Dispersion Science and Technology*, **2007**, 28, 613-616	1.5	21
67	Efficient and Facile Method for the Nitration of Aromatic Compounds by Nitric Acid in Micellar Media. *Synthetic Communications*, **2009**, 39, 2949-2953	1.7	20
66	Silica-supported perchloric acid and potassium bisulfate as reusable green catalysts for nitration of aromatics under solvent-free microwave conditions. *Synthetic Communications*, **2018**, 48, 59-67	1.7	16
65	Ultrasonic and Microwave-Assisted Synthesis of β-Nitro Styrenes and Nitro Phenols with Tertiary Butyl Nitrite under Acid-Free Conditions. *Synthetic Communications*, **2013**, 43, 2672-2677	1.7	16
64	Vilsmeier–Haack Bromination of Aromatic Compounds with KBr and N-Bromosuccinimide Under Solvent-Free Conditions. *Synthetic Communications*, **2009**, 39, 1817-1824	1.7	16
63	An Efficient Method for Thiocyanation of Aromatic and Heteroaromatic Compounds using Cyanuric Chloride and Ammonium Thiocyanate under Conventional and Nonconventional Conditions. *Synlett* , **2016**, 27, 237-240	2.2	14
62	Oxalylchloride/DMF as an Efficient Reagent for Nitration of Aromatic Compounds and Nitro Decarboxylation of Cinnamic Acids in Presence of KNO3 or NaNO2 Under Conventional and Nonconventional Conditions. *Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry*, **2013**, 43, 977-983		14
61	Zeolite Y-assisted nitration of aromatic and heterocyclic compounds and decarboxylative nitration of β,γ-unsaturated acids under non-conventional conditions. *Catalysis Science and Technology*, **2016** , 6, 1430-1434	5.5	11
60	A kinetic study of electron transfer from L-Ascorbic acid to sodium perborate and potassium peroxy disulphate in aqueous acid and micellar media. *International Journal of Chemical Kinetics*, **1996**, 28, 153-164	1.4	11
59	Kinetics and mechanism of trichloroisocyanuric acid/NaNO2-triggered nitration of aromatic compounds under acid-free and Vilsmeier-Haack conditions. *International Journal of Chemical Kinetics*, **2019**, 51, 445-462	1.4	10
58	Trichloroisocynuric Acid/DMF as Efficient Reagent for Chlorodehydration of Alcohols Under Conventional and Ultrasonic Conditions. *Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry*, **2015**, 45, 97-103		9
57	Prussian Blue as an Eco-Friendly Catalyst for Selective Nitration of Organic Compounds Under Conventional and Nonconventional Conditions. *Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry*, **2014**, 44, 364-370		9
56	Ammonium metavanadate/thiocyanate-triggered electrophilic thiocyanation of aromatic and heteroaromatic compounds in aqueous bisulfate and acetonitrile media. *Journal of Sulfur Chemistry* , **2014**, 35, 606-612	2.3	9

55	Potassium Periodate/NaNO2/KHSO4-Mediated Nitration of Aromatic Compounds and Kinetic Study of Nitration of Phenols in Aqueous Acetonitrile. *International Journal of Chemical Kinetics*, **2017**, 49, 622-632	1.4	8
54	Ultrasonically Assisted Rate Enhancements in Trichloroisocyanuric Acid/DMF/NaNO2 Triggered Nitration of Aromatic Compounds and Decarboxylative Nitration of β,γ-Unsaturated Acids. *Synthetic Communications*, **2015**, 45, 2251-2258	1.7	8
53	Symmetrical Trichlorotriazine Derivatives as Efficient Reagents for One-Pot Synthesis of 3-Acetyl-2-chloroquinolines from Acetanilides under Vilsmeier–Haack Conditions. *Synlett*, **2018**, 29, 85-88	2.2	8
52	Acetamide/SO2Cl2 as an efficient reagent for Friedel–Crafts acylation of aromatic compounds under ultrasonic and microwave conditions. *Tetrahedron Letters*, **2014**, 55, 1756-1759	2	8
51	Zeolite anchored Zr-ZSM-5 as an eco-friendly, green, and reusable catalyst in Hantzsch synthesis of dihydropyridine derivatives. *Materials Chemistry and Physics*, **2020**, 242, 122497	4.4	8
50	Tertiary Butyl Nitrite Triggered Nitration of Phenols: Solvent- and Structure-Dependent Kinetic Study. *International Journal of Chemical Kinetics*, **2016**, 48, 171-196	1.4	8
49	Zeolite H-Sdusy Powder (Cbv720) as a Recyclable Catalyst for an Efficient Thiocyanation of Aromatic and Heteroaromatic Compounds in Acetonitrile. *Phosphorus, Sulfur and Silicon and the Related Elements*, **2015**, 190, 1146-1153	1	7
48	Cesium carbonate as efficient catalyst for chemoselective transesterification of β-ketoesters under conventional and unconventional conditions. *Research on Chemical Intermediates*, **2015**, 41, 2739-2751	2.8	7
47	Sodium perborate/NaNO2/KHSO4-triggered synthesis and kinetics of nitration of aromatic compounds. *Research on Chemical Intermediates*, **2018**, 44, 6023-6038	2.8	7
46	Vanadium Pentoxide as a Catalyst for Regioselective Nitration of Organic Compounds under Conventional and Nonconventional Conditions. *Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry*, **2014**, 44, 921-926		7
45	Rate accelerations with zeolite Y in the synthesis of octahydro xanthenes and benzoxanthenes and their simple bio assay data. *Chemical Data Collections*, **2019**, 20, 100201	2.1	7
44	Trichloroisocyanuric acid and NaNO2 mediated nitration of indoles under acid-free and Vilsmeier–Haack conditions: synthesis and kinetic study. *SN Applied Sciences*, **2019**, 1, 1	1.8	6
43	Polyethylene Glycols as Efficient Catalysts for the Oxidation of Xanthine Alkaloids by Ceric Ammonium Nitrate in Acetonitrile: A Kinetic and Mechanistic Approach. *Advances in Physical Chemistry*, **2013**, 2013, 1-11		6
42	Ferric Chloride–Promoted Efficient and Facile BOC Protection of Amines. *Synthetic Communications* , **2011**, 41, 715-719	1.7	6
41	Kinetics and Mechanism of Certain Acetylation Reactions with Acetamide/Oxychloride in Acetonitrile under Vilsmeier?Haack Conditions. *Helvetica Chimica Acta*, **2011**, 94, 2168-2187	2	6
40	Prussian Blue/NaNO2 as an Efficient Reagent for the Nitration of Phenols in Aqueous Bisulfate and Acetonitrile Medium: Synthetic and Kinetic Study. *International Journal of Chemical Kinetics*, **2017**, 49, 209-218	1.4	5
39	Synthesis and Antimicrobial Studies of Novel Imidazole Containing Bisazetidinones and Bisthiazolidinone Derivatives. *Journal of Heterocyclic Chemistry*, **2015**, 52, 403-410	1.9	5
38	Polyethylene Glycol–Mediated Kinetic Study of Nitrodecarboxylation of β,γ-Unsaturated Acids by Blau's Fe(III) Bipy Complex. *International Journal of Chemical Kinetics*, **2014**, 46, 126-137	1.4	5

37	Polyethylene Glycols as Efficient Media for Decarboxylative Nitration of Unsaturated Aromatic Carboxylic Acids by Ceric Ammonium Nitrate in Acetonitrile Medium: A Kinetic and Mechanistic Study. *Advances in Physical Chemistry*, **2013**, 2013, 1-12		5
36	Kinetics and mechanism of peroxysulfate/NaNO2 mediated nitration of phenols in aqueous bisulfate medium. *SN Applied Sciences*, **2019**, 1, 1	1.8	4
35	Ultrasonic and microwave effects in polyethylene glycol-bound metal nitrate initiated nitration of aromatic compounds under acid free conditions. *Green Chemistry Letters and Reviews*, **2015**, 8, 50-55	4.7	4
34	Polyethylene Glycols as Efficient Catalysts for the Oxidation of Bicyclic Monoterpenes by Ceric Ammonium Nitrate in Acetonitrile under Acid-Free Conditions: Kinetic and Mechanistic Approach. *International Journal of Chemical Kinetics*, **2018**, 50, 383-396	1.4	4
33	Isoquinolinium Dichromate and Chlorochromate as Efficient Catalysts for Oxidative Halogenation of Aromatic Compounds Under Acid-Free Conditions. *Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry*, **2016**, 46, 832-837		4
32	Ultrasonically Assisted Decarboxylative Bromination of Unsaturated Carboxylic Acids Under Vilsmeier-Haack Conditions. *Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry*, **2016**, 46, 642-646		4
31	Prussian Blue as an Efficient Catalyst for Rate Accelerations in the Transesterification of Ketoesters. *Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry*, **2014**, 44, 1212-1220		4
30	Kinetics and mechanism of certain benzoylation reactions under Vilsmeier–Haack conditions using benzamide and oxychloride in acetonitrile medium. *International Journal of Chemical Kinetics*, **2013**, 45, 69-80	1.4	4
29	Mechanism of oxidation of aromatic amines by peroxomonosulphate a kinetic study. *International Journal of Chemical Kinetics*, **1995**, 27, 1143-1150	1.4	4
28	Ultrasonic and microwave effects on crystalline Mn(II) carbonate catalyzed biodiesel production using watermelon (Citrullus vulgaris) seed oil and alcohol (fibrous flesh) as exclusive green feedstock. *Biofuels*, **2016**, 7, 735-741	2	4
27	Kinetic and mechanistic study of micellar effects in ammonium metavanadate/NaNO2-triggered nitration of phenols in aqueous bisulfate and acetonitrile medium. *Research on Chemical Intermediates*, **2018**, 44, 3293-3312	2.8	3
26	Cetyltrimethylammonium Bromide as an Efficient Catalyst for Regioselective Bromination of Alkoxy Naphthalenes with Trimethyl Benzyl Ammonium Tribromide: Synthetic and Kinetic Approach. *International Journal of Chemical Kinetics*, **2014**, 46, 10-23	1.4	3
25	Efficient Catalytic Activity of Transition Metal Ions in Vilsmeier–Haack Reactions with Acetophenones. *International Journal of Chemical Kinetics*, **2013**, 45, 721-733	1.4	3
24	Synergistic Effect of [Ru(III) + Ir(III)] in N-Bromosuccinimide Reaction with Certain Aliphatic Ketones: A Kinetic Study. *Advances in Physical Chemistry*, **2012**, 2012, 1-6		3
23	Silica-supported HClO4 and KHSO4 as reusable green catalysts for sulfonation of aromatic compounds under solvent-free conditions. *Asian Journal of Green Chemistry*, **2017**, 2, 69-77	2	3
22	Bromination of Anisoles Using N-Bromophthalimide: A Synthetic and Kinetic Approach. *International Journal of Chemical Kinetics*, **2016**, 48, 98-105	1.4	3
21	Hydro peroxides /NaNO2/KHSO4 mediated synthesis, kinetics and mechanistic study of nitration of aromatic compounds in aqueous acetonitrile. *Chemical Data Collections*, **2019**, 21, 100222	2.1	2
20	Synthesis, characterization and biological activity studies of certain 1-((benzo[d]thiazol-2-yl) methyl)-4,5-dihydro-3-methyl-N-phenyl-1H-pyrazol-5-imine and 2-((5-aryl-1H-1,2,4-triazol-3-yl) methyl)benzo[d]thiazoles. *Cogent Chemistry*, **2017**, 3, 1312673	2.5	2

19	Kinetic and Mechanistic Study of Transition Metal Ion Catalyzed Vilsmeier–Haack Cyclization and Formylation Reactions with Acetanilides. *Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry*, **2015**, 45, 651-659		1
18	Symmetric trichloro triazine adducts with N, N-dimethyl formamide and N, N-dimethyl acetamide as green Vilsmeier–Haack reagents for effective formylation and acylation of Indoles. *Chemical Data Collections*, **2020**, 28, 100382	2.1	1
17	N, N-dimethyl formamide (DMF) mediated Vilsmeier–Haack adducts with 1,3,5-triazine compounds as efficient catalysts for the transesterification of β-ketoesters. *Synthetic Communications*, **2020**, 50, 1641-1655	1.7	1
16	Transition Metal Ions as Efficient Catalysts for Vilsmeier–Haack Formylation of Hydrocarbons with Reagents: Kinetics and Mechanism. *Journal of Solution Chemistry*, **2016**, 45, 371-394	1.8	1
15	Environmentally Benign Mortar-Pestle-Induced Acylation and O-Alkylation of Aromatic and Heteroaromatic Compounds under Solvent-Free Micellar Conditions and Computation of Their Drug Likeliness Properties. *Organic Chemistry International*, **2012**, 2012, 1-10		1
14	Potassium hydrogen sulfate mediated kinetics and mechanism of oxidation of certain polyols by Quinolinium bound Cr(VI) reagents. *SN Applied Sciences*, **2020**, 2, 1	1.8	1
13	Ultrasonic and microwave effects on Prussian blue catalysed high-quality biodiesel production using Watermelon (Citrullus vulgaris) seed oil and alcohol extract (from fibrous flesh) as an exclusive green feedstock. *Biofuels*, **2021**, 12, 597-603	2	1
12	Synthesis, kinetics, and mechanism of bromophenols by N-bromophthalimide in aqueous acetic acid. *International Journal of Chemical Kinetics*, **2018**, 50, 804-812	1.4	1
11	Cornforth and Corey-Suggs reagents as efficient catalysts for sulfonation of aromatic and heteroaromatic compounds using NaHSO3 under solvent free and microwave conditions. *Phosphorus, Sulfur and Silicon and the Related Elements*, **2020**, 195, 1001-1006	1	0
10	Corey-Suggs and Cornforth reagents and sodium nitrite triggered nitration of aromatic and heteroaromatic compounds—A synthetic and kinetic study in aqueous acetonitrile media under acid-free conditions. *Chemical Data Collections*, **2020**, 29, 100522	2.1	
9	Polyethylene Glycol Mediated Kinetic Study of Nitro Decarboxylation of α,β-Unsaturated Acids by Blau's Fe(III) Phen Complex. *Journal of Chemistry*, **2013**, 2013, 1-10	2.3	
8	Transition Metal Ions as Efficient Catalysts for Facile Ortho-Formylation of Phenols under Vilsmeier–Haack Conditions. *Organic Chemistry International*, **2012**, 2012, 1-7		
7	Synthesis and characterisation of 1-methacroyl 3-salicyloyl 2-hydroxy propane and its derivatives—A structure-reactivity kinetic study. *Journal of Chemical Sciences*, **1991**, 103, 549-556	1.8	
6	Kinetics and mechanism of quinolinium dichromate mediated oxidation of sugar alcohols in Bronsted acid media. *International Journal of Chemical Kinetics*, **2020**, 52, 167-177	1.4	
5	Trichloroisocyanuric acid (TCCA) and carboxamide interactions in TCCA/NaNO 2 triggered nitration of pyrrole and indole in aqueous aprotic media: A kinetic correlation of solvent properties with reactivity. *International Journal of Chemical Kinetics*, **2021**, 53, 164-186	1.4	
4	Micellar effects on the kinetics and mechanism of ceric ammonium nitrate oxidation of bicyclic monoterpenes under acid free conditions. *Chemical Data Collections*, **2021**, 31, 100645	2.1	
3	Silica Supported Acids (HClO4-SiO2, KHSO4-SiO2) as Eco-friendly Reusable Catalysts for Bromodecarboxylation of α,β-Unsaturated Carboxylic Acids using KBr under Solvothermal and Solvent-Free Conditions. *Asian Journal of Chemistry*, **2022**, 34, 535-542	0.4	
2	Cornforth's and Corey-Suggs Cr(VI) compounds as efficient reagents for selective oxidation of certain polyols in aqueous KHSO4 medium—A kinetic and mechanistic approach. *Chemical Data Collections*, **2022**, 39, 100847	2.1	

1 Nano Co-Fe-prussian blue analogue as a reusable catalyst for the thiocyanation of aromatic and heteroaromatic compounds in presence of NH4SCN under acid free solvothermal and solvent free conditions. *Inorganic and Nano-Metal Chemistry*,1-8 1.2