

# Chinna Rajanna Kamatala

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Silica Supported Acids (HClO <sub>4</sub> -SiO <sub>2</sub> , KHSO <sub>4</sub> -SiO <sub>2</sub> ) as Eco-friendly Reusable Catalysts for Bromodecarboxylation of $\alpha,\beta$ -Unsaturated Carboxylic Acids using KBr under Solvothermal and Solvent-Free Conditions. <i>Asian Journal of Chemistry</i> , <b>2022</b> , 34, 535-542	0.4	
71	Cornforth's and Corey-Suggs Cr(VI) compounds as efficient reagents for selective oxidation of certain polyols in aqueous KHSO <sub>4</sub> medium: A kinetic and mechanistic approach. <i>Chemical Data Collections</i> , <b>2022</b> , 39, 100847	2.1	
70	Ultrasonic and microwave effects on Prussian blue catalysed high-quality biodiesel production using Watermelon ( <i>Citrullus vulgaris</i> ) seed oil and alcohol extract (from fibrous flesh) as an exclusive green feedstock. <i>Biofuels</i> , <b>2021</b> , 12, 597-603	2	1
69	Trichloroisocyanuric acid (TCCA) and carboxamide interactions in TCCA/NaNO <sub>2</sub> triggered nitration of pyrrole and indole in aqueous aprotic media: A kinetic correlation of solvent properties with reactivity. <i>International Journal of Chemical Kinetics</i> , <b>2021</b> , 53, 164-186	1.4	
68	Micellar effects on the kinetics and mechanism of ceric ammonium nitrate oxidation of bicyclic monoterpenes under acid free conditions. <i>Chemical Data Collections</i> , <b>2021</b> , 31, 100645	2.1	
67	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. <i>Chemical Data Collections</i> , <b>2020</b> , 29, 100522	2.1	
66	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. <i>Chemical Data Collections</i> , <b>2020</b> , 28, 100382	2.1	1
65	N, N-dimethyl formamide (DMF) mediated Vilsmeier-Haack adducts with 1,3,5-triazine compounds as efficient catalysts for the transesterification of $\beta$ -ketoesters. <i>Synthetic Communications</i> , <b>2020</b> , 50, 1641-1655	1.7	1
64	Kinetics and mechanism of quinolinium dichromate mediated oxidation of sugar alcohols in Bronsted acid media. <i>International Journal of Chemical Kinetics</i> , <b>2020</b> , 52, 167-177	1.4	
63	Zeolite anchored Zr-ZSM-5 as an eco-friendly, green, and reusable catalyst in Hantzsch synthesis of dihydropyridine derivatives. <i>Materials Chemistry and Physics</i> , <b>2020</b> , 242, 122497	4.4	8
62	Potassium hydrogen sulfate mediated kinetics and mechanism of oxidation of certain polyols by Quinolinium bound Cr(VI) reagents. <i>SN Applied Sciences</i> , <b>2020</b> , 2, 1	1.8	1
61	Cornforth and Corey-Suggs reagents as efficient catalysts for sulfonation of aromatic and heteroaromatic compounds using NaHSO <sub>3</sub> under solvent free and microwave conditions. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , <b>2020</b> , 195, 1001-1006	1	0
60	Trichloroisocyanuric acid and NaNO <sub>2</sub> mediated nitration of indoles under acid-free and Vilsmeier-Haack conditions: synthesis and kinetic study. <i>SN Applied Sciences</i> , <b>2019</b> , 1, 1	1.8	6
59	Kinetics and mechanism of peroxysulfate/NaNO <sub>2</sub> mediated nitration of phenols in aqueous bisulfate medium. <i>SN Applied Sciences</i> , <b>2019</b> , 1, 1	1.8	4
58	Hydro peroxides /NaNO <sub>2</sub> /KHSO <sub>4</sub> mediated synthesis, kinetics and mechanistic study of nitration of aromatic compounds in aqueous acetonitrile. <i>Chemical Data Collections</i> , <b>2019</b> , 21, 100222	2.1	2
57	Kinetics and mechanism of trichloroisocyanuric acid/NaNO <sub>2</sub> -triggered nitration of aromatic compounds under acid-free and Vilsmeier-Haack conditions. <i>International Journal of Chemical Kinetics</i> , <b>2019</b> , 51, 445-462	1.4	10
56	Rate accelerations with zeolite Y in the synthesis of octahydro xanthenes and benzoxanthenes and their simple bio assay data. <i>Chemical Data Collections</i> , <b>2019</b> , 20, 100201	2.1	7

55	Kinetic and mechanistic study of micellar effects in ammonium metavanadate/NaNO <sub>2</sub> -triggered nitration of phenols in aqueous bisulfate and acetonitrile medium. <i>Research on Chemical Intermediates</i> , <b>2018</b> , 44, 3293-3312	2.8	3
54	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. <i>International Journal of Chemical Kinetics</i> , <b>2018</b> , 50, 383-396	1.4	4
53	Silica-supported perchloric acid and potassium bisulfate as reusable green catalysts for nitration of aromatics under solvent-free microwave conditions. <i>Synthetic Communications</i> , <b>2018</b> , 48, 59-67	1.7	16
52	Symmetrical Trichlorotriazine Derivatives as Efficient Reagents for One-Pot Synthesis of 3-Acetyl-2-chloroquinolines from Acetanilides under Vilsmeier-Haack Conditions. <i>Synlett</i> , <b>2018</b> , 29, 85-88 <sup>2-2</sup>		8
51	Sodium perborate/NaNO <sub>2</sub> /KHSO <sub>4</sub> -triggered synthesis and kinetics of nitration of aromatic compounds. <i>Research on Chemical Intermediates</i> , <b>2018</b> , 44, 6023-6038	2.8	7
50	Synthesis, kinetics, and mechanism of bromophenols by N-bromophthalimide in aqueous acetic acid. <i>International Journal of Chemical Kinetics</i> , <b>2018</b> , 50, 804-812	1.4	1
49	Potassium Periodate/NaNO <sub>2</sub> /KHSO <sub>4</sub> -Mediated Nitration of Aromatic Compounds and Kinetic Study of Nitration of Phenols in Aqueous Acetonitrile. <i>International Journal of Chemical Kinetics</i> , <b>2017</b> , 49, 622-632	1.4	8
48	Prussian Blue/NaNO <sub>2</sub> as an Efficient Reagent for the Nitration of Phenols in Aqueous Bisulfate and Acetonitrile Medium: Synthetic and Kinetic Study. <i>International Journal of Chemical Kinetics</i> , <b>2017</b> , 49, 209-218	1.4	5
47	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. <i>Cogent Chemistry</i> , <b>2017</b> , 3, 1312673	2.5	2
46	Silica-supported HClO <sub>4</sub> and KHSO <sub>4</sub> as reusable green catalysts for sulfonation of aromatic compounds under solvent-free conditions. <i>Asian Journal of Green Chemistry</i> , <b>2017</b> , 2, 69-77	2	3
45	An Efficient Method for Thiocyanation of Aromatic and Heteroaromatic Compounds using Cyanuric Chloride and Ammonium Thiocyanate under Conventional and Nonconventional Conditions. <i>Synlett</i> , <b>2016</b> , 27, 237-240	2.2	14
44	Isoquinolinium Dichromate and Chlorochromate as Efficient Catalysts for Oxidative Halogenation of Aromatic Compounds Under Acid-Free Conditions. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , <b>2016</b> , 46, 832-837		4
43	Transition Metal Ions as Efficient Catalysts for Vilsmeier-Haack Formylation of Hydrocarbons with Reagents: Kinetics and Mechanism. <i>Journal of Solution Chemistry</i> , <b>2016</b> , 45, 371-394	1.8	1
42	Ultrasonically Assisted Decarboxylative Bromination of $\alpha$ -Unsaturated Carboxylic Acids Under Vilsmeier-Haack Conditions. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , <b>2016</b> , 46, 642-646		4
41	Zeolite Y-assisted nitration of aromatic and heterocyclic compounds and decarboxylative nitration of $\alpha$ -Unsaturated acids under non-conventional conditions. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 1430-1434	5.5	11
40	Tertiary Butyl Nitrite Triggered Nitration of Phenols: Solvent- and Structure-Dependent Kinetic Study. <i>International Journal of Chemical Kinetics</i> , <b>2016</b> , 48, 171-196	1.4	8
39	Bromination of Anisoles Using N-Bromophthalimide: A Synthetic and Kinetic Approach. <i>International Journal of Chemical Kinetics</i> , <b>2016</b> , 48, 98-105	1.4	3
38	Ultrasonic and microwave effects on crystalline Mn(II) carbonate catalyzed biodiesel production using watermelon ( <i>Citrullus vulgaris</i> ) seed oil and alcohol (fibrous flesh) as exclusive green feedstock. <i>Biofuels</i> , <b>2016</b> , 7, 735-741	2	4

37	Ultrasonically Assisted Rate Enhancements in Trichloroisocyanuric Acid/DMF/NaNO <sub>2</sub> Triggered Nitration of Aromatic Compounds and Decarboxylative Nitration of $\alpha$ -Unsaturated Acids. <i>Synthetic Communications</i> , <b>2015</b> , 45, 2251-2258	1.7	8
36	Ultrasonic and microwave effects in polyethylene glycol-bound metal nitrate initiated nitration of aromatic compounds under acid free conditions. <i>Green Chemistry Letters and Reviews</i> , <b>2015</b> , 8, 50-55	4.7	4
35	Kinetic and Mechanistic Study of Transition Metal Ion Catalyzed Vilsmeier-Haack Cyclization and Formylation Reactions with Acetanilides. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , <b>2015</b> , 45, 651-659		1
34	Synthesis and Antimicrobial Studies of Novel Imidazole Containing Bisazetidiones and Bisthiazolidinone Derivatives. <i>Journal of Heterocyclic Chemistry</i> , <b>2015</b> , 52, 403-410	1.9	5
33	Zeolite H-Sdsusy Powder (Cbv720) as a Recyclable Catalyst for an Efficient Thiocyanation of Aromatic and Heteroaromatic Compounds in Acetonitrile. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , <b>2015</b> , 190, 1146-1153	1	7
32	Trichloroisocyanuric Acid/DMF as Efficient Reagent for Chlorodehydration of Alcohols Under Conventional and Ultrasonic Conditions. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , <b>2015</b> , 45, 97-103		9
31	Cesium carbonate as efficient catalyst for chemoselective transesterification of $\beta$ -ketoesters under conventional and unconventional conditions. <i>Research on Chemical Intermediates</i> , <b>2015</b> , 41, 2739-2751	2.8	7
30	Acetamide/SO <sub>2</sub> Cl <sub>2</sub> as an efficient reagent for Friedel-Crafts acylation of aromatic compounds under ultrasonic and microwave conditions. <i>Tetrahedron Letters</i> , <b>2014</b> , 55, 1756-1759	2	8
29	Prussian Blue as an Efficient Catalyst for Rate Accelerations in the Transesterification of $\beta$ -Ketoesters. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , <b>2014</b> , 44, 1212-1220		4
28	Prussian Blue as an Eco-Friendly Catalyst for Selective Nitration of Organic Compounds Under Conventional and Nonconventional Conditions. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , <b>2014</b> , 44, 364-370		9
27	Ammonium metavanadate/thiocyanate-triggered electrophilic thiocyanation of aromatic and heteroaromatic compounds in aqueous bisulfate and acetonitrile media. <i>Journal of Sulfur Chemistry</i> , <b>2014</b> , 35, 606-612	2.3	9
26	Polyethylene Glycol-Mediated Kinetic Study of Nitrodecarboxylation of $\alpha$ -Unsaturated Acids by Blau's Fe(III) Bipy Complex. <i>International Journal of Chemical Kinetics</i> , <b>2014</b> , 46, 126-137	1.4	5
25	Cetyltrimethylammonium Bromide as an Efficient Catalyst for Regioselective Bromination of Alkoxy Naphthalenes with Trimethyl Benzyl Ammonium Tribromide: Synthetic and Kinetic Approach. <i>International Journal of Chemical Kinetics</i> , <b>2014</b> , 46, 10-23	1.4	3
24	Vanadium Pentoxide as a Catalyst for Regioselective Nitration of Organic Compounds under Conventional and Nonconventional Conditions. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , <b>2014</b> , 44, 921-926		7
23	Oxalylchloride/DMF as an Efficient Reagent for Nitration of Aromatic Compounds and Nitro Decarboxylation of Cinnamic Acids in Presence of KNO <sub>3</sub> or NaNO <sub>2</sub> Under Conventional and Nonconventional Conditions. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , <b>2013</b> , 43, 977-993		14
22	Kinetics and mechanism of certain benzoylation reactions under Vilsmeier-Haack conditions using benzamide and oxylchloride in acetonitrile medium. <i>International Journal of Chemical Kinetics</i> , <b>2013</b> , 45, 69-80	1.4	4
21	Ultrasonic and Microwave-Assisted Synthesis of $\beta$ -Nitro Styrenes and Nitro Phenols with Tertiary Butyl Nitrite under Acid-Free Conditions. <i>Synthetic Communications</i> , <b>2013</b> , 43, 2672-2677	1.7	16
20	Efficient Catalytic Activity of Transition Metal Ions in Vilsmeier-Haack Reactions with Acetophenones. <i>International Journal of Chemical Kinetics</i> , <b>2013</b> , 45, 721-733	1.4	3

19	Polyethylene Glycols as Efficient Media for Decarboxylative Nitration of $\beta$ -Unsaturated Aromatic Carboxylic Acids by Ceric Ammonium Nitrate in Acetonitrile Medium: A Kinetic and Mechanistic Study. <i>Advances in Physical Chemistry</i> , <b>2013</b> , 2013, 1-12		5
18	Polyethylene Glycols as Efficient Catalysts for the Oxidation of Xanthine Alkaloids by Ceric Ammonium Nitrate in Acetonitrile: A Kinetic and Mechanistic Approach. <i>Advances in Physical Chemistry</i> , <b>2013</b> , 2013, 1-11		6
17	Polyethylene Glycol Mediated Kinetic Study of Nitro Decarboxylation of $\beta$ -Unsaturated Acids by $\text{[Blau-Fe(III) Phen Complex]}$ . <i>Journal of Chemistry</i> , <b>2013</b> , 2013, 1-10	2.3	
16	Transition Metal Ions as Efficient Catalysts for Facile Ortho-Formylation of Phenols under Vilsmeier-Haack Conditions. <i>Organic Chemistry International</i> , <b>2012</b> , 2012, 1-7		
15	Synergistic Effect of $[\text{Ru(III)} + \text{Ir(III)}]$ in N-Bromosuccinimide Reaction with Certain Aliphatic Ketones: A Kinetic Study. <i>Advances in Physical Chemistry</i> , <b>2012</b> , 2012, 1-6		3
14	Environmentally Benign Mortar-Pestle-Induced Acylation and O-Alkylation of Aromatic and Heteroaromatic Compounds under Solvent-Free Micellar Conditions and Computation of Their Drug Likelihood Properties. <i>Organic Chemistry International</i> , <b>2012</b> , 2012, 1-10		1
13	Ferric Chloride Promoted Efficient and Facile BOC Protection of Amines. <i>Synthetic Communications</i> , <b>2011</b> , 41, 715-719	1.7	6
12	Kinetics and Mechanism of Certain Acetylation Reactions with Acetamide/Oxychloride in Acetonitrile under Vilsmeier-Haack Conditions. <i>Helvetica Chimica Acta</i> , <b>2011</b> , 94, 2168-2187	2	6
11	Efficient and Facile Method for the Nitration of Aromatic Compounds by Nitric Acid in Micellar Media. <i>Synthetic Communications</i> , <b>2009</b> , 39, 2949-2953	1.7	20
10	Vilsmeier-Haack Bromination of Aromatic Compounds with KBr and N-Bromosuccinimide Under Solvent-Free Conditions. <i>Synthetic Communications</i> , <b>2009</b> , 39, 1817-1824	1.7	16
9	Cadmium Chloride as an Efficient Catalyst for Neat Synthesis of 5-Substituted 1H-Tetrazoles. <i>Synthetic Communications</i> , <b>2009</b> , 39, 4479-4485	1.7	69
8	Antimony Trioxide as an Efficient Lewis Acid Catalyst for the Synthesis of 5-Substituted 1H-Tetrazoles. <i>Synthetic Communications</i> , <b>2009</b> , 39, 426-432	1.7	28
7	Micellar Mediated Halodecarboxylation of $\beta$ -Unsaturated Aliphatic and Aromatic Carboxylic Acids: A Novel Green Hunsdiecker-Borodin Reaction. <i>Journal of Dispersion Science and Technology</i> , <b>2007</b> , 28, 613-616	1.5	21
6	AMMONIUM NICKEL SULPHATE MEDIATED NITRATION OF AROMATIC COMPOUNDS WITH NITRIC ACID. <i>Synthetic Communications</i> , <b>2001</b> , 31, 1123-1127	1.7	50
5	Methylene Blue - Ascorbic Acid: An Undergraduate Experiment in Kinetics. <i>Journal of Chemical Education</i> , <b>1997</b> , 74, 228	2.4	54
4	A kinetic study of electron transfer from L-Ascorbic acid to sodium perborate and potassium peroxy disulphate in aqueous acid and micellar media. <i>International Journal of Chemical Kinetics</i> , <b>1996</b> , 28, 153-164	1.4	11
3	Mechanism of oxidation of aromatic amines by peroxomonosulphate: A kinetic study. <i>International Journal of Chemical Kinetics</i> , <b>1995</b> , 27, 1143-1150	1.4	4
2	Synthesis and characterisation of 1-methacroyl 3-salicyloyl 2-hydroxy propane and its derivatives: A structure-reactivity kinetic study. <i>Journal of Chemical Sciences</i> , <b>1991</b> , 103, 549-556	1.8	

- 1 Nano Co-Fe-prussian blue analogue as a reusable catalyst for the thiocyanation of aromatic and heteroaromatic compounds in presence of  $\text{NH}_4\text{SCN}$  under acid free solvothermal and solvent free conditions. *Inorganic and Nano-Metal Chemistry*,1-8 1.2