

Shivamurti A Chimatadar

List of Publications by Year in descending order

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63
papers

835
citations

567281

15
h-index

552781

26
g-index

63
all docs

63
docs citations

63
times ranked

888
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxidation of procainamide by diperiodatocuprate(III) complex in aqueous alkaline medium: a comparative kinetic study. <i>Inorganic and Nano-Metal Chemistry</i> , 2020, 50, 195-204.	1.6	0
2	Binding of fexofenadine hydrochloride to bovine serum albumin: structural considerations by spectroscopic techniques and molecular docking. <i>Journal of Biomolecular Structure and Dynamics</i> , 2017, 35, 1200-1214.	3.5	10
3	Interactions between epinastine and human serum albumin: Investigation by fluorescence, UV-vis, FTIR, CD, lifetime measurement and molecular docking. <i>Journal of Molecular Structure</i> , 2017, 1137, 485-494.	3.6	59
4	Investigation of binding behaviour of procainamide hydrochloride with human serum albumin using synchronous, 3D fluorescence and circular dichroism. <i>Journal of Pharmaceutical Analysis</i> , 2017, 7, 103-109.	5.3	40
5	Quenching of fluorescence by meclizine, a probe study for structural and conformational changes in human serum albumin. <i>Journal of Biomolecular Structure and Dynamics</i> , 2017, 35, 3161-3175.	3.5	15
6	Spectroscopic exploration and thermodynamic characterization of desvenlafaxine interacting with fluorescent bovine serum albumin. <i>Journal of Molecular Recognition</i> , 2017, 30, e2567.	2.1	6
7	Autocatalytic Oxidation of Thiamine Hydrochloride (Vitamin B ₁) by Permanganate in Aqueous Sulfuric Acid Medium: A Kinetic and Mechanistic Study. <i>International Journal of Chemical Kinetics</i> , 2016, 48, 281-291.	1.6	1
8	Voltammetric oxidation of carbenicillin and its electro analytical applications at gold electrode. <i>Cogent Chemistry</i> , 2016, 2, 1235459.	2.5	6
9	Binding interaction and conformational changes of human serum albumin with ranitidine studied by spectroscopic and time-resolved fluorescence methods. <i>Journal of the Iranian Chemical Society</i> , 2016, 13, 1325-1338.	2.2	35
10	Uncatalyzed and Ruthenium(III) Catalyzed Oxidation of Aspartame by Potassium Permanganate in Aqueous Alkaline Medium: A Comparative Kinetic Study. <i>Journal of Solution Chemistry</i> , 2016, 45, 497-517.	1.2	1
11	Interaction of Hydralazine with Human Serum Albumin and Effect of β -Cyclodextrin on Binding: Insights from Spectroscopic and Molecular Docking Techniques. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 5454-5464.	3.7	68
12	Electro-oxidation and Determination of Procainamide at Glassy Carbon Electrode and its Analytical Applications. <i>Analytical Chemistry Letters</i> , 2016, 6, 193-204.	1.0	4
13	A spectroscopic investigation of kinetics and mechanism of ruthenium(III)-catalyzed oxidation of N-(2-hydroxyethyl)phthalimide by cerium(IV) in aqueous sulphuric acid and sulphate media. <i>Cogent Chemistry</i> , 2016, 2, 1195243.	2.5	4
14	Fluorescent bovine serum albumin interacting with the antitussive quencher dextromethorphan: a spectroscopic insight. <i>Luminescence</i> , 2016, 31, 843-850.	2.9	10
15	Biomolecular interaction study of hydralazine with bovine serum albumin and effect of β -cyclodextrin on binding by fluorescence, 3D, synchronous, CD, and Raman spectroscopic methods. <i>Journal of Molecular Recognition</i> , 2016, 29, 308-317.	2.1	10
16	Interaction between carisoprodol and bovine serum albumin and effect of β -cyclodextrin on binding: insights from molecular docking and spectroscopic techniques. <i>RSC Advances</i> , 2016, 6, 63463-63471.	3.6	23
17	Evaluation of the binding interaction between bovine serum albumin and dimethyl fumarate, an anti-inflammatory drug by multispectroscopic methods. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 156, 164-171.	3.9	34
18	Free-radical-induced oxidative degradation of antibacterial drug, methylparaben by permanganate in alkaline medium: A kinetic and mechanistic approach. <i>Cogent Chemistry</i> , 2016, 2, 1134992.	2.5	1

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19	Study of fluorescence interaction and conformational changes of bovine serum albumin with histamine H_1 receptor drug epinastine hydrochloride by spectroscopic and time-resolved fluorescence methods. Biopolymers, 2015, 103, 646-657.	2.4	22
20	Oxidation of clindamycin phosphate by chromium(VI) in aqueous sulfuric acid medium: A kinetic and mechanistic study. Cogent Chemistry, 2015, 1, 1115210.	2.5	1
21	Catalytic Activity of Ruthenium(III) and Thermodynamic Study of Oxidative Degradation of Chloramphenicol by Cerium(IV) in Sulfuric Acid Medium. Journal of Solution Chemistry, 2015, 44, 152-169.	1.2	8
22	Oxidative degradation of the antihypertensive drug losartan by alkaline copper(III) periodate complex in the presence and absence of ruthenium(III) catalyst: a kinetic and mechanistic study of losartan metabolite. Monatshefte für Chemie, 2015, 146, 1649-1663.	1.8	4
23	Kinetics and Mechanism of Cerium(IV) Oxidation of Fosfomycin Disodium Salt: An Antibiotic Drug in Acid Perchlorate Solutions. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2015, 45, 1138-1144.	0.6	6
24	Conclusive evidence for autocatalytic behaviour of manganese(II) ions in the oxidative degradation of ondansetron by permanganate in aqueous sulfuric acid medium: a kinetic and mechanistic approach. Journal of Environmental Chemical Engineering, 2015, 3, 1233-1242.	6.7	3
25	Multi-spectroscopic investigation of the binding interaction of fosfomycin with bovine serum albumin. Journal of Pharmaceutical Analysis, 2015, 5, 249-255.	5.3	67
26	Spectroscopic investigations of the oxidation of levofloxacin by hexacyanoferrate(III) in aqueous alkaline medium: A kinetic and mechanistic approach. Cogent Chemistry, 2015, 1, 1088778.	2.5	7
27	Investigation of electron-transfer reaction between alkaline hexacyanoferrate(III) and ranitidine hydrochloride: a histamine H ₂ receptor antagonist, in the presence of homogenous ruthenium(III) catalyst. Journal of Sulfur Chemistry, 2015, 36, 637-652.	2.0	3
28	Kinetics and mechanistic studies of oxidation of fluoroquinolone antibacterial agent norfloxacin by diperiodatocuprate(III) in aqueous alkaline medium. Cogent Chemistry, 2015, 1, 1068510.	2.5	6
29	Spectroscopic investigation and oxidation of the anticholinergic drug atropine sulfate monohydrate by hexacyanoferrate(III) in aqueous alkaline media: a mechanistic approach. Turkish Journal of Chemistry, 2014, 38, 477-487.	1.2	4
30	In vitro studies on the interaction between human serum albumin and fosfomycin disodium salt, an antibiotic drug by multi-spectroscopic and molecular docking methods. Molecular Biology Reports, 2014, 41, 2377-2387.	2.3	5
31	Spectroscopic Investigation and Reactivities of Ruthenium(III) Catalyzed Oxidation of Anticholinergic Drug Atropine Sulfate Monohydrate by Hexacyanoferrate(III) in Aqueous Alkaline Media: A Mechanistic Approach. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2014, 44, 263-272.	0.6	3
32	Multi-spectral characterization & effect of metal ions on the binding of bovine serum albumin upon interaction with a lincosamide antibiotic drug, clindamycin phosphate. Journal of Photochemistry and Photobiology B: Biology, 2014, 138, 324-330.	3.8	11
33	Binding studies of lincosamide antibiotic drug clindamycin phosphate to human serum albumin by fluorescence, 3D, and circular dichroism spectroscopy. Monatshefte für Chemie, 2014, 145, 1519-1527.	1.8	11
34	Iodide ion mediated oxidation of chloramphenicol by hexacyanoferrate(III) ion in aqueous alkaline medium. Reaction Kinetics, Mechanisms and Catalysis, 2013, 110, 317-330.	1.7	2
35	Osmium(VIII) catalyzed oxidation of an antibiotic drug chloramphenicol by hexacyanoferrate(III) in aqueous alkaline medium: A mechanistic approach. Main Group Chemistry, 2013, 12, 1-14.	0.8	2
36	Investigation of the interaction of the new antiarrhythmic drug procainamide hydrochloride with bovine serum albumin and the effect of some metal ions on the binding: a fluorescence quenching study. Monatshefte für Chemie, 2013, 144, 1253-1259.	1.8	9

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37	Catalytic Activity of Palladium(II) and Osmium(VIII) on the Oxidation of Chloramphenicol by Copper(III) Periodate Complex in Aqueous Alkaline Medium—A Comparative Kinetic and Mechanistic Approach. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 9011-9020.	3.7	13
38	Oxidation of Acyclovir by a Cuprate(III) Periodate Complex in Aqueous Alkaline Media: A Kinetic and Mechanistic Approach. <i>Journal of Solution Chemistry</i> , 2012, 41, 777-792.	1.2	2
39	Kinetics and Mechanism of the Autocatalyzed Oxidation of Theophylline by Permanganate in Aqueous Perchloric Acid Medium. <i>Journal of Solution Chemistry</i> , 2012, 41, 567-580.	1.2	5
40	Kinetics and mechanism of ruthenium(III) catalyzed oxidation of chloromphenicol—An antibiotic drug by diperiodatocuprate(III) in aqueous alkaline medium. <i>Kinetics and Catalysis</i> , 2012, 53, 65-74.	1.0	10
41	Kinetics and Mechanism of Permanganate Oxidation of Clopidogrel Hydrogen Sulfate: An Antiplatelet Drug in Acid Perchlorate Solutions. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 10962-10971.	3.7	8
42	Kinetics and Mechanism of Oxidation of Chloramphenicol — an Antibiotic Drug by Diperiodatocuprate(III) in Aqueous Alkaline Medium. <i>Zeitschrift Fur Physikalische Chemie</i> , 2011, 225, 79-94.	2.8	3
43	Kinetics and mechanism of uncatalysed and ruthenium(III)-catalysed oxidation of d-panthenol by alkaline permanganate. <i>Transition Metal Chemistry</i> , 2010, 35, 237-246.	1.4	11
44	Ruthenium(III)-mediated oxidation of D -mannitol by cerium(IV) in aqueous sulfuric acid medium: A kinetic and mechanistic approach. <i>International Journal of Chemical Kinetics</i> , 2010, 42, 440-452.	1.6	13
45	Kinetics and Mechanism of the Oxidation of Tyrosine by Diperiodatoargentate(III) in Aqueous Alkaline Medium. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2009, 39, 637-644.	0.6	6
46	Ruthenium(III) mediated oxidation of glycerol by cerium(IV) in aqueous sulfuric acid medium — a kinetic and mechanistic study. <i>Main Group Chemistry</i> , 2009, 8, 283-298.	0.8	4
47	Manganese(II) catalysed oxidation of glycerol by cerium(IV) in aqueous sulphuric acid medium: a kinetic and mechanistic study. <i>Transition Metal Chemistry</i> , 2009, 34, 711-718.	1.4	16
48	Kinetics and Oxidation of Fluoroquinolone Antibacterial Agent, Norfloxacin, by Alkaline Permanganate: A Mechanistic Study. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 2548-2555.	3.7	34
49	Kinetic and mechanistic studies of the iridium(III) catalyzed oxidation of sulphanic acid by diperiodatocuprate(III) in aqueous alkaline medium. <i>Reaction Kinetics and Catalysis Letters</i> , 2008, 94, 359-366.	0.6	1
50	A kinetic and mechanistic study of the oxidation of tyrosine by chromium(VI) in aqueous perchloric acid medium. <i>Transition Metal Chemistry</i> , 2008, 33, 405-410.	1.4	12
51	A kinetic and mechanistic study of oxidation of L-lysine by the analytical reagent diperiodatoargentate(III) in aqueous alkaline medium. <i>Transition Metal Chemistry</i> , 2008, 33, 535-542.	1.4	6
52	Mechanistic study of cerium(IV) oxidation of antimony(III) in aqueous sulphuric acid in the presence of micro amounts of manganese(II) by stopped flow technique. <i>Transition Metal Chemistry</i> , 2008, 33, 625-633.	1.4	12
53	Oxidation of Vanillin by a New Oxidant Diperiodatoargentate(III) in Aqueous Alkaline Medium. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 1459-1464.	3.7	15
54	Oxidative transformation of ciprofloxacin by alkaline permanganate — A kinetic and mechanistic study. <i>Polyhedron</i> , 2007, 26, 4877-4885.	2.2	37

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55	Mechanistic study of iodide catalysed oxidation of l-glutamic acid by cerium(IV) in aqueous sulphuric acid medium. Transition Metal Chemistry, 2007, 32, 634-641.	1.4	28
56	Chloride and iodide mediated oxidation of antimony(III) by cerium(IV) in aqueous sulphuric acid medium. Transition Metal Chemistry, 2007, 32, 902-912.	1.4	6
57	Mechanistic Study of Oxidation of Palladium(II) by Cerium(IV) in Aqueous Acid. Transition Metal Chemistry, 2006, 31, 186-193.	1.4	27
58	A kinetic and mechanistic study of oxidation of arsenic(III) by hexacyanoferrate(III) in aqueous ethanoic acid. Transition Metal Chemistry, 2004, 29, 743-750.	1.4	2
59	Oxidation of palladium(II) by hexacyanoferrate(III) in aqueous ethanoic acid: a mechanistic study. Transition Metal Chemistry, 2002, 27, 62-68.	1.4	6
60	Title is missing!. Transition Metal Chemistry, 2002, 27, 704-711.	1.4	11
61	Title is missing!. Transition Metal Chemistry, 2001, 26, 662-667.	1.4	19
62	Title is missing!. Transition Metal Chemistry, 2001, 26, 241-245.	1.4	11
63	Chromium(III)-catalysed cerium(IV) oxidation of arsenic(III) in aqueous sulphuric acid. Journal of the Chemical Society Dalton Transactions, 1987, , 573.	1.1	16