

# Shivamurti A Chimatadar

## List of Publications by Year in descending order

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567281  
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docs citations

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times ranked

888  
citing authors

#	ARTICLE	IF	CITATIONS
1	Interaction of Hydralazine with Human Serum Albumin and Effect of $\beta$ -Cyclodextrin on Binding: Insights from Spectroscopic and Molecular Docking Techniques. Industrial & Engineering Chemistry Research, 2016, 55, 5454-5464.	3.7	68
2	Multi-spectroscopic investigation of the binding interaction of fosfomycin with bovine serum albumin. Journal of Pharmaceutical Analysis, 2015, 5, 249-255.	5.3	67
3	Interactions between epinastine and human serum albumin: Investigation by fluorescence, UV-vis, FTIR, CD, lifetime measurement and molecular docking. Journal of Molecular Structure, 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. Journal of Pharmaceutical Analysis, 2017, 7, 103-109.	5.3	40
5	Oxidative transformation of ciprofloxacin by alkaline permanganate – A kinetic and mechanistic study. Polyhedron, 2007, 26, 4877-4885.	2.2	37
6	Binding interaction and conformational changes of human serum albumin with ranitidine studied by spectroscopic and time-resolved fluorescence methods. Journal of the Iranian Chemical Society, 2016, 13, 1325-1338.	2.2	35
7	Kinetics and Oxidation of Fluoroquinolone Antibacterial Agent, Norfloxacin, by Alkaline Permanganate: A Mechanistic Study. Industrial & Engineering Chemistry Research, 2009, 48, 2548-2555.	3.7	34
8	Evaluation of the binding interaction between bovine serum albumin and dimethyl fumarate, an anti-inflammatory drug by multispectroscopic methods. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2016, 156, 164-171.	3.9	34
9	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
10	Mechanistic Study of Oxidation of Palladium(II) by Cerium(IV) in Aqueous Acid. Transition Metal Chemistry, 2006, 31, 186-193.	1.4	27
11	Interaction between carisoprodol and bovine serum albumin and effect of $\beta$ -cyclodextrin on binding: insights from molecular docking and spectroscopic techniques. RSC Advances, 2016, 6, 63463-63471.	3.6	23
12	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
13	Title is missing!. Transition Metal Chemistry, 2001, 26, 662-667.	1.4	19
14	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
15	Manganese(II) catalysed oxidation of glycerol by cerium(IV) in aqueous sulphuric acid medium: a kinetic and mechanistic study. Transition Metal Chemistry, 2009, 34, 711-718.	1.4	16
16	Oxidation of Vanillin by a New Oxidant Diperoxyargentate(III) in Aqueous Alkaline Medium. Industrial & Engineering Chemistry Research, 2007, 46, 1459-1464.	3.7	15
17	Quenching of fluorescence by meclizine, a probe study for structural and conformational changes in human serum albumin. Journal of Biomolecular Structure and Dynamics, 2017, 35, 3161-3175.	3.5	15
18	Ruthenium(III)-mediated oxidation of D-mannitol by cerium(IV) in aqueous sulfuric acid medium: A kinetic and mechanistic approach. International Journal of Chemical Kinetics, 2010, 42, 440-452.	1.6	13

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19	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. Industrial & Engineering Chemistry Research, 2013, 52, 9011-9020.	3.7	13
20	A kinetic and mechanistic study of the oxidation of tyrosine by chromium(VI) in aqueous perchloric acid medium. Transition Metal Chemistry, 2008, 33, 405-410.	1.4	12
21	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. Transition Metal Chemistry, 2008, 33, 625-633.	1.4	12
22	Title is missing!. Transition Metal Chemistry, 2001, 26, 241-245.	1.4	11
23	Title is missing!. Transition Metal Chemistry, 2002, 27, 704-711.	1.4	11
24	Kinetics and mechanism of uncatalysed and ruthenium(III)-catalysed oxidation of d-panthenol by alkaline permanganate. Transition Metal Chemistry, 2010, 35, 237-246.	1.4	11
25	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
26	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
27	Kinetics and mechanism of ruthenium(III) catalyzed oxidation of chloromphenicol—An antibiotic drug by diperiodatocuprate(III) in aqueous alkaline medium. Kinetics and Catalysis, 2012, 53, 65-74.	1.0	10
28	Fluorescent bovine serum albumin interacting with the antitussive quencher dextromethorphan: a spectroscopic insight. Luminescence, 2016, 31, 843-850.	2.9	10
29	Biomolecular interaction study of hydralazine with bovine serum albumin and effect of $\beta$ -cyclodextrin on binding by fluorescence, 3D, synchronous, CD, and Raman spectroscopic methods. Journal of Molecular Recognition, 2016, 29, 308-317.	2.1	10
30	Binding of fexofenadine hydrochloride to bovine serum albumin: structural considerations by spectroscopic techniques and molecular docking. Journal of Biomolecular Structure and Dynamics, 2017, 35, 1200-1214.	3.5	10
31	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
32	Kinetics and Mechanism of Permanganate Oxidation of Clopidogrel Hydrogen Sulfate: An Antiplatelet Drug in Acid Perchlorate Solutions. Industrial & Engineering Chemistry Research, 2011, 50, 10962-10971.	3.7	8
33	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
34	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
35	Oxidation of palladium(II) by hexacyanoferrate(III) in aqueous ethanoic acid: a mechanistic study. Transition Metal Chemistry, 2002, 27, 62-68.	1.4	6
36	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

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37	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
38	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
39	Kinetics and Mechanism of Cerium(IV) Oxidation of Fosfomycin Disodium Salt: An Antibiotic Drug in Acid Perchlorate Solutions. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2015, 45, 1138-1144.	0.6	6
40	Kinetics and mechanistic studies of oxidation of fluoroquinolone antibacterial agent norfloxacin by diperiodatocuprate(III) in aqueous alkaline medium. <i>Cogent Chemistry</i> , 2015, 1, 1068510.	2.5	6
41	Voltammetric oxidation of carbenicillin and its electro analytical applications at gold electrode. <i>Cogent Chemistry</i> , 2016, 2, 1235459.	2.5	6
42	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
43	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
44	In vitro studies on the interaction between human serum albumin and fosfomycin disodium salt, an antibiotic drug by multi-spectroscopic and molecular docking methods. <i>Molecular Biology Reports</i> , 2014, 41, 2377-2387.	2.3	5
45	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
46	Spectroscopic investigation and oxidation of the anticholinergic drug atropine sulfate monohydrate by hexacyanoferrate(III) in aqueous alkaline media: a mechanistic approach. <i>Turkish Journal of Chemistry</i> , 2014, 38, 477-487.	1.2	4
47	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. <i>Monatshefte für Chemie</i> , 2015, 146, 1649-1663.	1.8	4
48	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
49	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
50	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
51	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. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2014, 44, 263-272.	0.6	3
52	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. <i>Journal of Environmental Chemical Engineering</i> , 2015, 3, 1233-1242.	6.7	3
53	Investigation of electron-transfer reaction between alkaline hexacyanoferrate(III) and ranitidine hydrochloride – a histamine H <sub>2</sub> receptor antagonist, in the presence of homogenous ruthenium(III) catalyst. <i>Journal of Sulfur Chemistry</i> , 2015, 36, 637-652.	2.0	3
54	A kinetic and mechanistic study of oxidation of arsenic(III) by hexacyanoferrate(III) in aqueous ethanoic acid. <i>Transition Metal Chemistry</i> , 2004, 29, 743-750.	1.4	2

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55	Oxidation of Acyclovir by a Cuprate(III) Periodate Complex in Aqueous Alkaline Media: A Kinetic and Mechanistic Approach. Journal of Solution Chemistry, 2012, 41, 777-792.	1.2	2
56	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
57	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
58	Kinetic and mechanistic studies of the iridium(III) catalyzed oxidation of sulphanilic acid by diperiodatocuprate(III) in aqueous alkaline medium. Reaction Kinetics and Catalysis Letters, 2008, 94, 359-366.	0.6	1
59	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
60	Autocatalytic Oxidation of Thiamine Hydrochloride (Vitamin B <sub>1</sub> ) by Permanganate in Aqueous Sulfuric Acid Medium: A Kinetic and Mechanistic Study. International Journal of Chemical Kinetics, 2016, 48, 281-291.	1.6	1
61	Uncatalyzed and Ruthenium(III) Catalyzed Oxidation of Aspartame by Potassium Permanganate in Aqueous Alkaline Medium: A Comparative Kinetic Study. Journal of Solution Chemistry, 2016, 45, 497-517.	1.2	1
62	Free-radical-induced oxidative degradation of antibacterial drug, methylparaben by permanganate in alkaline medium: A kinetic and mechanistic approach. Cogent Chemistry, 2016, 2, 1134992.	2.5	1
63	Oxidation of procainamide by diperiodatocuprate(III) complex in aqueous alkaline medium: a comparative kinetic study. Inorganic and Nano-Metal Chemistry, 2020, 50, 195-204.	1.6	0