

Ahmed Fawzy

List of Publications by Year in descending order

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papers

649
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535685

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721071

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docs citations

42
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Assessment of new designed surfactants as eco-friendly inhibitors for the corrosion of steel in acidic environment and evaluation of their biological and surface features: thermodynamic, kinetic and mechanistic aspects. <i>Journal of Adhesion Science and Technology</i> , 2022, 36, 1993-2019.	1.4	7
2	Evaluation of the efficiency of divalent cobalt and copper chelates based on isatin derivatives and thiosemicarbazide ligands as inhibitors for the corrosion of Sabc iron in acidic medium. <i>Arabian Journal of Chemistry</i> , 2022, 15, 103522.	2.3	10
3	Auspicious water treatment approach. Oxidative degradation of fluconazole and voriconazole antibiotics by CrO ₃ in different acidic environments: Kinetics, mechanistic and thermodynamic modelling. <i>Journal of Saudi Chemical Society</i> , 2022, 26, 101396.	2.4	6
4	Investigation of three synthesized propane bis-oxindoline derivatives as inhibitors for the corrosion of mild steel in sulfuric acid solutions. <i>Journal of Molecular Structure</i> , 2021, 1223, 129318.	1.8	31
5	Inhibition Evaluation of Chromotrope Dyes for the Corrosion of Mild Steel in an Acidic Environment: Thermodynamic and Kinetic Aspects. <i>ACS Omega</i> , 2021, 6, 4051-4061.	1.6	37
6	Oxidation of barbituric and thiobarbituric acids by chromium trioxide in different acidic media: A kinetic and mechanistic aspects. <i>Journal of Molecular Structure</i> , 2021, 1229, 129495.	1.8	8
7	Performance of unprecedented synthesized biosurfactants as green inhibitors for the corrosion of mild steel-37-2 in neutral solutions: a mechanistic approach. <i>Green Chemistry Letters and Reviews</i> , 2021, 14, 488-499.	2.1	22
8	Expired azithromycin and roxithromycin drugs as environmentally friendly inhibitors for mild steel corrosion in H ₂ SO ₄ solutions. <i>Green Chemistry Letters and Reviews</i> , 2021, 14, 509-518.	2.1	20
9	Novel 1,3,4-Thiadiazolethiosemicarbazones Derivatives and Their Divalent Cobalt-Complexes: Synthesis, Characterization and Their Efficiencies for Acidic Corrosion Inhibition of Carbon Steel. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020, 30, 1609-1620.	1.9	22
10	Investigation of the inhibition efficiencies of novel synthesized cobalt complexes of 1,3,4-thiadiazolethiosemicarbazone derivatives for the acidic corrosion of carbon steel. <i>Journal of Molecular Structure</i> , 2020, 1203, 127447.	1.8	38
11	Degradation of Ampicillin and Flucloxacillin Antibiotics via Oxidation by Alkaline Hexacyanoferrate(III): Kinetics and Mechanistic Aspects. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 16217-16224.	1.8	10
12	Unprecedented Treatment Strategy of Aquatic Environments: Oxidative Degradation of Penicillin G by Chromium Trioxide in Acidic Media and the Impact of Metal Ion Catalysts: Kinetics and Mechanistic Insights. <i>ACS Omega</i> , 2020, 5, 32781-32791.	1.6	6
13	Green synthetic investigation and spectral characterization of some spiro pyrazolidine-based heterocycles with potential biological activity. <i>Journal of Heterocyclic Chemistry</i> , 2020, 57, 1729-1736.	1.4	2
14	Oxidative degradation of some antibiotics by permanganate ion in alkaline medium: A kinetic and mechanistic approach. <i>Tropical Journal of Pharmaceutical Research</i> , 2020, 19, 1999-2007.	0.2	8
15	Removal of toxic tellurium (IV) compounds via bioreduction using flucloxacillin in aqueous acidic medium: A kinetic and mechanistic approach. <i>Journal of Molecular Liquids</i> , 2019, 292, 111436.	2.3	13
16	Evaluation of the Catalytic Activities of Some Synthesized Divalent and Trivalent Metal Complexes and Their Inhibition Efficiencies for the Corrosion of Mild Steel in Sulfuric Acid Medium. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2019, 29, 1927-1940.	1.9	18
17	Copper(II) catalysis for oxidation of L-tryptophan by hexacyanoferrate(III) in alkaline medium: A kinetic and mechanistic approach. <i>Journal of Saudi Chemical Society</i> , 2017, 21, 887-898.	2.4	19
18	Silver(I) and Copper(II) Catalysis for Oxidation of Histidine by Cerium(IV) in Acid Medium: A Comparative Kinetic Study. <i>International Journal of Chemical Kinetics</i> , 2017, 49, 143-156.	1.0	4

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19	Kinetics and Mechanism of Permanganate Oxidations of Isosorbide in Different Acidic Media. <i>Journal of Solution Chemistry</i> , 2017, 46, 613-625.	0.6	4
20	A study of the kinetics and mechanism of chromic acid oxidation of isosorbide, a chiral biomass-derived substrate, in aqueous perchlorate solution. <i>Transition Metal Chemistry</i> , 2017, 42, 229-236.	0.7	6
21	Kinetics and Mechanistic Study of Permanganate Oxidation of Fluorenone Hydrazone in Alkaline Medium. <i>Advances in Physical Chemistry</i> , 2016, 2016, 1-9.	2.0	2
22	Europium(III) Catalysis for Reduction of Thionine Dye by Selenous Acid in Aqueous Sulfuric Acid Solutions: A Kinetic and Mechanistic Approach. <i>International Journal of Chemical Kinetics</i> , 2016, 48, 531-543.	1.0	2
23	Kinetics and mechanism of uncatalyzed and ruthenium(III)-catalyzed oxidation of formamidine derivative by hexacyanoferrate(III) in aqueous alkaline medium. <i>Journal of Chemical Sciences</i> , 2016, 128, 733-743.	0.7	6
24	Ruthenium(III)-catalyzed oxidation of alginate and pectate biopolymers by chromic acid in aqueous perchlorate solutions: a comparative kinetic study. <i>Transition Metal Chemistry</i> , 2016, 41, 115-124.	0.7	9
25	Kinetic, mechanistic, and spectroscopic studies of permanganate oxidation of azinylformamidines in acidic medium, with autocatalytic behavior of manganese(II). <i>Journal of Saudi Chemical Society</i> , 2016, 20, 561-569.	2.4	14
26	Palladium(II)-catalyzed oxidation of L-tryptophan by hexacyanoferrate(III) in perchloric acid medium: a kinetic and mechanistic approach. <i>Journal of Chemical Sciences</i> , 2016, 128, 247-256.	0.7	8
27	Kinetic and Mechanistic Aspects of Oxidation of Aminotriazole Formamidine by Cerium(IV) in Aqueous Perchloric and Sulfuric Acid Solutions: A Comparative Study. <i>Journal of Solution Chemistry</i> , 2016, 45, 246-264.	0.6	12
28	Oxidation of alginate and pectate biopolymers by cerium(IV) in perchloric and sulfuric acid solutions: A comparative kinetic and mechanistic study. <i>Carbohydrate Polymers</i> , 2016, 138, 356-364.	5.1	16
29	Kinetics and mechanistic approach to the chromic acid oxidation of L-tryptophan with a spectral detection of chromium(III) product. <i>Journal of Saudi Chemical Society</i> , 2016, 20, 450-458.	2.4	20
30	Silver(I) catalysis of oxidative deamination and decarboxylation of L-asparagine and L-histidine by platinum(IV) in perchloric acid solutions: A comparative kinetics study. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 617-623.	3.3	10
31	Kinetics and mechanism of uncatalyzed and silver(I)-catalyzed oxidation of L-histidine by hexachloroplatinate(IV) in acid medium. <i>Transition Metal Chemistry</i> , 2015, 40, 287-295.	0.7	14
32	Transition metal-catalyzed oxidation of L-asparagine by platinum(IV) in acid medium: a kinetic and mechanistic study. <i>Transition Metal Chemistry</i> , 2015, 40, 587-594.	0.7	10
33	Kinetics and Mechanistic Approach to the Oxidative Behavior of Biological Anticancer Platinum(IV) Complex toward L-Asparagine in Acid Medium and the Effect of Copper(II) Catalyst. <i>International Journal of Chemical Kinetics</i> , 2015, 47, 1-12.	1.0	21
34	Kinetics and Mechanism of Oxidation of L-Histidine by Permanganate Ions in Sulfuric Acid Medium. <i>International Journal of Chemical Kinetics</i> , 2014, 46, 370-381.	1.0	24
35	Base-catalyzed oxidation of L-asparagine by alkaline permanganate and the effect of alkali metal ion catalysts: a kinetic and mechanistic approach. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2014, 111, 443-460.	0.8	23
36	Kinetic and mechanistic investigations on the oxidation of N-heteroaryl unsymmetrical formamidines by permanganate in aqueous alkaline medium. <i>Transition Metal Chemistry</i> , 2014, 39, 379-386.	0.7	21

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37	Influence of copper(II) catalyst on the oxidation of l-histidine by platinum(IV) in alkaline medium: a kinetic and mechanistic study. <i>Transition Metal Chemistry</i> , 2014, 39, 567-576.	0.7	21
38	Oxidation of Some Macromolecules. Kinetics and Mechanism of Oxidation of Methyl Cellulose Polysaccharide by Permanganate Ion in Acid Perchlorate Solutions. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 5424-5432.	1.8	42
39	Kinetics and mechanism of permanganate oxidation of iota- and lambda-carrageenan polysaccharides as sulfated carbohydrates in acid perchlorate solutions. <i>Carbohydrate Research</i> , 2011, 346, 2260-7.	1.1	9
40	Further evidence for detection of short-lived transient hypomanganate(V) and manganate(VI) intermediates during oxidation of some sulfated polysaccharides by alkaline permanganate using conventional spectrophotometric techniques. <i>Carbohydrate Research</i> , 2010, 345, 1588-1593.	1.1	28
41	Acid-catalyzed oxidation of carboxymethyl cellulose polysaccharide by chromic acid in aqueous perchlorate solutions. A kinetics study. <i>Catalysis Communications</i> , 2010, 11, 611-615.	1.6	21
42	Spectrophotometric evidence for the formation of short-lived hypomanganate(V) and manganate(VI) transient species during the oxidation of K-carrageenan by alkaline permanganate. <i>Carbohydrate Research</i> , 2007, 342, 1382-1386.	1.1	25