Debabrata Chatterjee

List of Publications by Year
in descending order

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116 papers	3,284 citations	257450 24 h-index	161849 54 g-index
118 all docs	118 docs citations	118 times ranked	3588 citing authors

#	Article	IF	Citations
1	Visible light induced photocatalytic degradation of organic pollutants. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2005, 6, 186-205.	11.6	1,059
2	Demineralization of organic pollutants on the dye modified TiO2 semiconductor particulate system using visible light. Applied Catalysis B: Environmental, 2001, 33, 119-125.	20.2	173
3	Visible light induced photodegradation of organic pollutants on dye adsorbed TiO2 surface. Journal of Photochemistry and Photobiology A: Chemistry, 2002, 153, 199-204.	3.9	157
4	Synthesis of the monooxoruthenium(V) complexes containing the aminopolycarboxylic acid ligands EDTA and PDTA and their reactivities in the oxidation of organic substrates. X-ray crystal structures of K[RuIII(EDTA-H)Cl].cntdot.2H2O and K[RuIII(PDTA-H)Cl].cntdot.0.5H2O. Inorganic Chemistry, 1992, 31, 2711-2718.	4.0	89
5	Asymmetric epoxidation of unsaturated hydrocarbons catalyzed by ruthenium complexes. Coordination Chemistry Reviews, 2008, 252, 176-198.	18.8	87
6	Olefin epoxidation catalysed by Schiff-base complexes of Mn and Ni in heterogenised-homogeneous systems. Journal of Molecular Catalysis A, 1999, 144, 363-367.	4.8	82
7	Photoassisted detoxification of organic pollutants on the surface modified TiO2 semiconductor particulate system. Catalysis Communications, 2001, 2, 1-3.	3.3	72
8	Visible light assisted photodegradation of halocarbons on the dye modified TiO2 surface using visible light. Solar Energy Materials and Solar Cells, 2006, 90, 1013-1020.	6.2	69
9	Kinetics of the decoloration of reactive dyes over visible light-irradiated TiO2 semiconductor photocatalyst. Journal of Hazardous Materials, 2008, 156, 435-441.	12.4	69
10	Properties and reactivities of polyaminopolycarboxylate (pac) complexes of ruthenium. Coordination Chemistry Reviews, 1998, 168, 273-293.	18.8	68
11	Effect of excited state redox properties of dye sensitizers on hydrogen production through photo-splitting of water over TiO2 photocatalyst. Catalysis Communications, 2010, 11, 336-339.	3.3	59
12	Evidence of superoxide radical formation in the photodegradation of pesticide on the dye modified TiO2 surface using visible light. Journal of Photochemistry and Photobiology A: Chemistry, 2004, 165, 19-23.	3.9	46
13	Oxo-transfer catalysis from t-BuOOH with Câ€“H bond insertion using tridentate Schiff-base-chelate complexes of ruthenium(III). Inorganica Chimica Acta, 2004, 357, 980-990.	2.4	42
14	Oxidation of benzene with tert-butylhydroperoxide catalyzed by a novel [RuIII(amp)(bipy)(H2O)]+ complex: first report of homogeneously catalyzed oxo-transfer reaction in benzene oxidation. Journal of Molecular Catalysis A, 2001, 165, 295-298.	4.8	40
15	Interaction of [RuIII(edta)(H2O)]â€“ with amino acids in aqueous solution. Equilibrium, kinetic and protease inhibition studiesElectronic supplementary information (ESI) available: kinetic plots and a scheme showing the reaction between [RuIII(edta)(H2O)]â€“ and cysteine. See http://www.rsc.org/suppdata/dt/b2/b208495n/. Dalton Transactions, 2003, , 203-209.	3.3	39
16	Remarkably high catalytic activity of the RuIII(edta)/H2O2 system towards degradation of the azo-dye Orange II. Dalton Transactions, 2011, 40, 10473.	3.3	36
17	Synthesis, kinetics, and physicochemical studies of a new mixed-valent heterobinuclear cyano-bridged ruthenium(III)-iron(II) complex. Inorganic Chemistry, 1993, 32, 4049-4052.	4.0	35
18	Effect of sacrificial electron donors on hydrogen generation over visible lightâ€“irradiated nonmetal-doped TiO2 photocatalysts. Transition Metal Chemistry, 2012, 37, 93-96.	1.4	33

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19	A potential role for protein tyrosine phosphatase inhibition by a RuIIIâ€“edta complex (edta =) Tj ETQq1 1 0.784314 rgBT /Overlock 10	4.1	32
20	Adsorption and photocatalysis of colour removal from waste water using flyash and sunlight. Catalysis Communications, 2001, 2, 113-117.	3.3	30
21	[Ru^{III}(edta)(H₂O)]^{â^'}mediated oxidation of hydroxyurea with H₂O₂. Kinetic and mechanistic investigation. Dalton Transactions, 2010, 39, 1695-1698.	3.3	28
22	Reaction of [RuIII(edta)(H2O)]? with H2O2 in aqueous solution. Kinetic and mechanistic investigation. Dalton Transactions, 2007, , 943.	3.3	27
23	Reactivity of [RuIII(edta)(H2O)]â€“with nucleic bases, nucleosides and DNA (calf-thymus) in aqueous solution (etda = ethylenediamine-N,N,Nâ€²,Nâ€²-tetraacetate). Journal of the Chemical Society Dalton Transactions, 1995, , 2497-2501.	1.1	26
24	Synthesis, characterization and reactivity of a novel ruthenium(II) complex containing polypyridyl ligand. Polyhedron, 2007, 26, 178-183.	2.2	26
25	Selective oxo-functionalisation of Câ€“H bond with t-BuOOH catalysed by [RuIII(amp)(bipy)Cl] complex (H2amp=N-(hydroxyphenyl)salicyldimine; bipy=2,2â€²bipyridyl). Polyhedron, 1999, 18, 2659-2663.	2.2	24
26	Electron-transfer reactions in [Ru(edta)(pyz)]â€“(edta = ethylenedinitrilotetraacetate, pyz = pyrazine). Journal of the Chemical Society Dalton Transactions, 1996, , 4389-4392.	1.1	23
27	Detection of N-3 and N-7-coordinated [RuII(edta)(5â€²-GMP)]4â^' complexes and the N-1 protonation equilibrium of the RuII derivative. Inorganica Chimica Acta, 1999, 285, 170-177.	2.4	23
28	The substitution mechanism of [Ruiii(edta)(H2O)]â^' with DNA bases, nucleoside and nucleotides in aqueous solution revisited. Dalton Transactions RSC, 2002, , 962.	2.3	23
29	Synthesis, Characterization and reactivities of Schiff-base complexes of Ruthenium(III). Journal of Coordination Chemistry, 2004, 57, 175-182.	2.2	22
30	Highly efficient asymmetric epoxidation of alkenes with a novel chiral complex of ruthenium(III) containing a sugar based ligand and triphenylphosphines. Journal of Molecular Catalysis A, 2006, 255, 283-289.	4.8	22
31	Kinetics and mechanism of the [RuIII(edta)(H2O)]â^'-mediated oxidation of cysteine by H2O2. Dalton Transactions, 2011, 40, 10997.	3.3	22
32	Selective oxidation of thiourea with H2O2 catalyzed by [RuIII(edta)(H2O)]â^': kinetic and mechanistic studies. Dalton Transactions, 2013, 42, 4725.	3.3	22
33	Kinetics and mechanism of Oâ€“O bond cleavage in the reaction of [RuIII(edta)(H2O)]â^' with hydroperoxides in aqueous solution. Dalton Transactions, 2008, , 3851.	3.3	21
34	Removal of Some Common Textile Dyes from Aqueous Solution Using Fly Ash. Journal of Chemical & Engineering Data, 2010, 55, 5653-5657.	1.9	21
35	Selective air oxidation of dimethyl sulfide to dimethyl sulfoxide catalysed by aminopolycarboxylatoruthenium(III) complex. Journal of Molecular Catalysis A, 1997, 127, 57-60.	4.8	19
36	Kinetics and mechanism of epoxidation of olefins by a novel ruthenium(IV)-oxo complex. Inorganica Chimica Acta, 2008, 361, 2177-2182.	2.4	19

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37	Asymmetric epoxidation of alkenes using a mixed-ligand complex of ruthenium(III) containing a sugar-based ligand. Inorganica Chimica Acta, 2006, 359, 1325-1328.	2.4	17
38	Simultaneous degradation of non-emissive and emissive dyes on visible light illuminated TiO2 surface. Journal of Molecular Catalysis A, 2006, 260, 264-268.	4.8	17
39	Redox reactions of a RuIII-edta complex with thioamino acids. Kinetic and mechanistic studies. Dalton Transactions, 2011, 40, 1302.	3.3	16
40	Photocatalytic reduction of hydrazine to ammonia catalysed by [RuIII(edta)(H2O)]â^' complex in a Pt/TiO2 semiconductor particulate system. Journal of Molecular Catalysis A, 2000, 154, 1-3.	4.8	15
41	Kinetics and mechanism of NO production in the RuIII-(edta) mediated oxidation of l-arginine with H2O2. Dalton Transactions, 2011, 40, 683-685.	3.3	15
42	Formation of [Ru^{III}(edta)(SNO)]^{2â€“} in Ru^{III}(edta)-Mediated S-Nitrosylation of Bisulfide Ion. Inorganic Chemistry, 2016, 55, 5037-5040.	4.0	15
43	Kinetics and mechanism of the substitution of [(NH3)5Ru III (edta)Ru III (H2O)]2+(edta =) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 Transactions, 1993, , 1065.	1.1	14
44	Asymmetric epoxidation of alkenes with tert-butyl hydroperoxide catalyzed by a novel chiral complex of manganese(III) containing a sugar based tridentate Schiff-base ligand. Catalysis Communications, 2007, 8, 1345-1348.	3.3	14
45	Asymmetric epoxidation of alkenes with aqueous t-BuOOH catalyzed by novel chiral complexes of chromium(III) containing tridentate Schiff-base ligands. Journal of Molecular Catalysis A, 2007, 271, 270-276.	4.8	14
46	Kinetics and catalysis of oxidation of phenol by ruthenium(IV)â€“oxo complex. Journal of Molecular Catalysis A, 2008, 282, 124-128.	4.8	14
47	Nitrite reduction mediated by the complex Ru^{III}(EDTA). Dalton Transactions, 2014, 43, 13596.	3.3	14
48	Oxidation of tertiary phosphines by molecular oxygen catalysed by RuIII-EDTA complex. Electronic effect of phosphine substituent on the oxygen atom transfer reaction; X-ray crystal structure of the complex [RuIII(EDTA-H)PPh3]. Polyhedron, 1993, 12, 1443-1451.	2.2	13
49	KINETICS AND MECHANISM OF SUBSTITUTION OF AQUOETHYLENEDIAMINETETRAACETATORUTHANATE (III) WITH CYSTEINE IN AQUEOUS SOLUTION. Journal of Coordination Chemistry, 1996, 39, 117-122.	2.2	13
50	Oxidation of organic substrates catalyzed by a novel mixed-ligand [RuIII(app)(pic)(H2O)]+ complex. Inorganic Chemistry Communication, 2000, 3, 640-644.	3.9	13
51	Kinetics and mechanisms of oxidation of triphenylphosphine with iodosylbenzene catalyzed by N-hydroxyethylethylenediaminetriacetatoruthenate(III) in waterâ€”dioxane medium. Journal of Molecular Catalysis, 1991, 67, 1-6.	1.2	12
52	Synthesis and catalytic activity of a novel ruthenium(III) complex containing a sugar-based ligand. Catalysis Communications, 2005, 6, 459-461.	3.3	12
53	Olefin epoxidation catalyzed by [RuIII(TDL)(tmeda)H2O] complexes (TDL=tridentate Schiff-base ligand;) Tj ETQq1 1 0.784314 rgBT /O	4.8	12
54	Oxidation of thiocyanate with H2O2 catalyzed by [RuIII(edta)(H2O)]â^'. Dalton Transactions, 2013, 42, 10056.	3.3	12

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55	RuIII(edta) catalyzed hydrogenation of bicarbonate to formate. Journal of Coordination Chemistry, 2016, 69, 650-655.	2.2	12
56	Kinetics and mechanism of the epoxidation of styrene and substituted styrenes with O2 catalysed by [RuIII(EDTA)(H2O)â^'. Journal of Molecular Catalysis, 1992, 77, 23-28.	1.2	11
57	Electrochemical Conversion of Bicarbonate to Formate Mediated by the Complex Ru^{III}(edta) (edta^{4â€“} = ethylenediaminetetraacetate). European Journal of Inorganic Chemistry, 2014, 2014, 5856-5859.	2.0	11
58	Interaction of phenylhydrazine with RuIII-EDTA complexes: reduction of phenylhydrazine to ammonia and aniline in aqueous acidic conditions. Polyhedron, 1997, 16, 1235-1240.	2.2	10
59	Kinetics and mechanism of oxo-transfer from pyridine N-oxide to dimethyl sulfide catalysed by [RuIII(edta)(H2O)]â^' complex (edta=ethylenediaminetetraacetate). Journal of Molecular Catalysis A, 1999, 150, 49-52.	4.8	10
60	Oxidation of organic substrates catalyzed by novel mixed-ligand manganese(III) complexes. Journal of Molecular Catalysis A, 2001, 169, 41-45.	4.8	10
61	Energy-minimized structures and MO levels of catalysts related to [RuO(hpsd)(bpy)]+ that competently hydroxylate benzene (hpsd(2-)=(2-hydroxyphenyl)salicyldiminato). Inorganica Chimica Acta, 2004, 357, 785-796.	2.4	10
62	Oxidation of catechol and l-ascorbic acid by [RuIII(tpy)(pic)(OH)]+ (tpy=2,2â€²6â€²,2â€³-terpyridine;) Tj ETQq0 0 0 rgBT /Overlock 10 T 1219-1222.	3.9	10
63	Substrate versus oxidant activation in RuIII(edta) catalyzed dye degradation. RSC Advances, 2013, 3, 3606.	3.6	10
64	Mechanism of the oxidation of thiosulfate with hydrogen peroxide catalyzed by aqua-ethylenediaminetetraacetatoruthenium(III). Journal of Molecular Catalysis A, 2014, 386, 1-4.	4.8	10
65	Electrochemistry of Ru(edta) complexes relevant to small molecule transformations: Catalytic implications and challenges. Coordination Chemistry Reviews, 2021, 436, 213773.	18.8	10
66	Reactivity of [RuIII(pac)(H2O)] (pac=polyaminocarboxylate) complexes with 5â€²-nucleotides and their antitumor activity. Inorganica Chimica Acta, 2005, 358, 2954-2959.	2.4	9
67	Direct evidence for catalase activity of [RuV(edta)(O)]â^'. Chemical Communications, 2014, 50, 14562-14565.	4.1	9
68	Ru(EDTA) mediated partial reduction of O₂ by H₂S. Dalton Transactions, 2015, 44, 7613-7617.	3.3	9
69	Inorganic reaction mechanisms. A personal journey. Dalton Transactions, 2020, 49, 4599-4659.	3.3	9
70	Kinetics and mechanism of electron tansfer from L-ascorbic acid to ethylenediaminetetraacetatoruthenium(V) oxo complex in aqueous medium. Journal of Molecular Catalysis, 1991, 69, 33-39.	1.2	8
71	Homogeneous Catalysis of C-H Bond Activation by a Novel Ruthenium(III)-Complex. Reaction Kinetics and Catalysis Letters, 2000, 70, 147-151.	0.6	8
72	[RuIII(medtra)(H2O)] (medtra=N-methylethylenediaminetriacetate) complex â€“ A highly efficient NO inhibitor with low toxicity. Inorganica Chimica Acta, 2006, 359, 2285-2290.	2.4	8

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73	RuIII(edta) mediated oxidation of azide in the presence of hydrogen peroxide. Azide versus peroxide activation. Dalton Transactions, 2014, 43, 3087-3094.	3.3	8
74	Reactivity of [RuIII(hedtra)(H2O)] with thio-amino acids and protease inhibition. Inorganica Chimica Acta, 2005, 358, 2960-2965.	2.4	7
75	Mechanism of OO bond activation and substrate oxidation by Ru-edta complexes. Journal of Molecular Catalysis A, 2012, 355, 61-68.	4.8	7
76	RuIII(EDTA) mediated S-nitrosylation of cysteine by nitrite. Dalton Transactions, 2014, 43, 18042-18046.	3.3	7
77	Dye sensitization of a large band gap semiconductor by an iron(III) complex. Transition Metal Chemistry, 2014, 39, 641-646.	1.4	7
78	Ru^{III}(edta) complexes as molecular redox catalysts in chemical and electrochemical reduction of dioxygen and hydrogen peroxide: inner-sphere versus outer-sphere mechanism. RSC Advances, 2021, 11, 21359-21366.	3.6	7
79	Electron Transfer Reactions of RuIII(edta) Containing the N-Heterocyclic Ligand Pyrazine: Kinetic and Mechanistic Studies. Macroheterocycles, 2020, 13, 193-200.	0.5	7
80	Redox kinetics and reactivity of heterobinuclear cyano-bridged ethylenediaminetetraacetatoruthenium(III)hexacyanoferrate(II,III) in aqueous solution. Polyhedron, 1999, 18, 1767-1771.	2.2	6
81	Polyaminecarboxylateruthenium(III) complexes on the mosaic of bioinorganic reactions. Kinetic and mechanistic impact. Advances in Inorganic Chemistry, 2012, 64, 183-217.	1.0	6
82	Peroxydisulfate activation by [RuII(tpy)(pic)(H2O)]+. Kinetic, mechanistic and anti-microbial activity studies. Dalton Transactions, 2012, 41, 2694.	3.3	6
83	Chemistry of Ru(edta) complexes relevant to oxidoreductase mimicking: a personal perspective. New Journal of Chemistry, 2020, 44, 18972-18979.	2.8	6
84	Reaction mechanisms relevant to the formation and utilization of [Ru(edta)(NO)] complexes in aqueous media. Journal of Inorganic Biochemistry, 2021, 225, 111595.	3.5	6
85	The electron transfer reaction of [RuIII(edta)(pyz)]â^' with sulfite in aqueous solution. Transition Metal Chemistry, 2000, 25, 227-230.	1.4	5
86	Hydrocarbon Oxidation Catalyzed by [Ru(TDL)(XY)Z] Complexes (TDLÂ=ÂTridentate Ligand; XYÂ=ÂBidentate) Tj ETQq0 0 0 rgBT /Overlo	2.6	5
87	Ru-edta induced cleavage of DNA. Journal of Coordination Chemistry, 2009, 62, 1719-1724.	2.2	5
88	Actuation and Sensing Studies of a Miniaturized Five Fingered Robotic Hand Made with Ion Polymeric Metal Composite (IPMC). Advanced Materials Research, 2013, 740, 492-495.	0.3	5
89	RuIII-edta (edta4â^' = ethylenediaminetetraacetate) mediated photocatalytic conversion of bicarbonate to formate over visible light irradiated non-metal doped TiO2 semiconductor photocatalysts. RSC Advances, 2016, 6, 63488-63492.	3.6	5
90	RuIII(EDTA) mediated activation of redox signalling molecules. Coordination Chemistry Reviews, 2017, 349, 129-138.	18.8	5

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91	Prospect of Ru^{III}(edta) in Catalysis of Bicarbonate Reduction. Current Catalysis, 2020, 9, 23-31.	0.5	5
92	Ruthenium(III)-edta type complexes for DNA-metallation. Journal of Chemical Sciences, 1999, 111, 437-442.	1.5	5
93	Formation of a mixed-valence Ru(IV)â€“Fe(II) binuclear complex via the reaction of [RuIII(edta)(H2O)]â^' and [FeIII(CN)6]3â^' in aqueous solution. Polyhedron, 2000, 19, 1339-1346.	2.2	4
94	Reactivity of chloro(N-methyliminodiacetato)palladium(II) and chloro(pyridyl-2,6-dicarboxylato)palladium(II) complexes with purine based 5â€²-nucleotides and glutathione: antitumor activity of platinum(II)-analogs. Inorganica Chimica Acta, 2005, 358, 2900-2908.	2.4	4
95	Kinetics and mechanism of the reaction of [RuIII(edta)(H2O)]â^'with HOBr to form an intermediate RuV€O complex in aqueous solution. Dalton Transactions, 2006, , 4691-4695.	3.3	4
96	Kinetics and mechanism of the reaction of [RuII(tpy)(pic)(H2O)]+ with KHSO5 in oxidative cleavage of DNA. Journal of Coordination Chemistry, 2011, 64, 30-37.	2.2	4
97	Binding of aquo-ethylenediaminetetraacetatoruthenium(III) to apo-transferrin. Fluorescence, antiproliferative and in silico studies. Inorganica Chimica Acta, 2013, 404, 1-4.	2.4	4
98	Shape estimation of IPMC actuators in ionic solutions using hyper redundant kinematic modeling. Mechanism and Machine Theory, 2016, 103, 174-188.	4.5	4
99	[RuIII(EDTA)(H2O)]â^' catalyzed oxidation of biologically important thiols by H2O2. Journal of Coordination Chemistry, 2016, 69, 3417-3423.	2.2	4
100	Reactivity of polyaminocarboxylatoruthenium(III) complexes with serine and their protease inhibition. Journal of Coordination Chemistry, 2005, 58, 1703-1711.	2.2	3
101	Kinetics and mechanism for oxidation of [RuIII(edta)(H2O)]â^' with peroxydisulfate in aqueous medium. Journal of Coordination Chemistry, 2010, 63, 2598-2604.	2.2	3
102	Oxidation of captopril by hydrogen peroxide and peroxomonosulfate ion catalyzed by a ruthenium(III) complex: kinetic and mechanistic studies. Transition Metal Chemistry, 2016, 41, 279-286.	1.4	3
103	RuIII(edta)-mediated interaction of nitrite and sulphide: formation of an N-bonded thionitrous acid (HSNO) complex of RuIII(edta) in aqueous solution. New Journal of Chemistry, 2019, 43, 15311-15315.	2.8	3
104	Oxidoreductase mimicking activity of Ru(edta) complexes in conversion of NAD coenzymes. Polyhedron, 2022, 221, 115872.	2.2	3
105	Solvent effects on the anation ofcis-diaquo-bis-ethylenediamine cobalt(III) by L-proline. Transition Metal Chemistry, 1989, 14, 277-282.	1.4	2
106	Degradation of Methylene Blue by [Ru^{III}(hedtra)(H₂O)]/H₂O₂ Catalytic System. Current Catalysis, 2014, 3, 82-87.	1.0	2
107	Oxidation of thiourea by peroxomonosulfate ion catalyzed by a ruthenium(III) complex: kinetic and mechanistic studies. Transition Metal Chemistry, 2016, 41, 9-13.	1.4	2
108	An iteratively optimized resolution to hyper redundancy for dissimilarly doped compliant IPMC actuators. Mechatronics, 2017, 46, 154-167.	3.3	2

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109	Oxidation of Organic Substrates Catalyzed by Novel Mixed-Ligand Chromium(III) Complexes. Reaction Kinetics and Catalysis Letters, 2000, 71, 217-222.	0.6	1
110	[RuIII(EDTA)(H2O)]â^' mediated oxidation of cellular thiols by HSO5â^'. New Journal of Chemistry, 2016, 40, 9380-9384.	2.8	1
111	Mechanism of -Oâ€“O- bond activation and catalysis by Ru III -pac complexes (pac =) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 662	1.5	0
112	Redox Reactions of a [RuIII(hedtra)(pz)] Complex with Biochemically Important Reductants: Kinetic, Mechanistic and Antimicrobial Studies. European Journal of Inorganic Chemistry, 2012, 2012, 678-683.	2.0	0
113	Interaction of Ru^{III}(EDTA) with cellular thiols and O₂: biological implications thereof. Journal of Coordination Chemistry, 2015, 68, 3229-3235.	2.2	0
114	Oxidation of Ru(III)-Bound Thiocyanate with Peroxomonosulfate: Kinetic and Mechanistic Studies. International Journal of Chemical Kinetics, 2016, 48, 117-123.	1.6	0
115	Reaction of [Ru^{III}(EDTA)(H₂O/OH)]^{â^'/2â^'} with bisulfide and persulfide in aqueous solution: kinetic and mechanistic studies. Journal of Coordination Chemistry, 2019, 72, 2904-2915.	2.2	0
116	Catalysis of alkene hydrogenation and oxidation by nickei-saloph complex: A novel bifunctional catalyst. Journal of Chemical Sciences, 1994, 106, 775-775.	1.5	0