

Raviraj M Kulkarni

List of Publications by Year in descending order

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93
papers

1,868
citations

257450

24
h-index

276875

41
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94
all docs

94
docs citations

94
times ranked

1282
citing authors

#	ARTICLE	IF	CITATIONS
1	An electrochemical sensor for clozapine at ruthenium doped TiO ₂ nanoparticles modified electrode. <i>Sensors and Actuators B: Chemical</i> , 2017, 247, 858-867.	7.8	124
2	Electrochemical Sensor Based upon Ruthenium Doped TiO ₂ Nanoparticles for the Determination of Flufenamic Acid. <i>Journal of the Electrochemical Society</i> , 2017, 164, B3036-B3042.	2.9	92
3	Electro-Catalytic Behavior of Mg-Doped ZnO Nano-Flakes for Oxidation of Anti-Inflammatory Drug. <i>Journal of the Electrochemical Society</i> , 2019, 166, B3072-B3078.	2.9	88
4	Development of a novel nanosensor using Ca-doped ZnO for antihistamine drug. <i>Materials Chemistry and Physics</i> , 2020, 246, 122791.	4.0	85
5	Electroanalysis of Carbendazim using MWCNT/Ca-ZnO Modified Electrode. <i>Electroanalysis</i> , 2020, 32, 1590-1599.	2.9	81
6	Electro-sensing base for mefenamic acid on a 5% barium-doped zinc oxide nanoparticle modified electrode and its analytical application. <i>RSC Advances</i> , 2015, 5, 104891-104899.	3.6	76
7	Nano molar detection of acyclovir, an antiviral drug at nanoclay modified carbon paste electrode. <i>Sensing and Bio-Sensing Research</i> , 2017, 14, 39-46.	4.2	76
8	Electrochemical oxidation of nimesulide in aqueous acid solutions based on TiO ₂ nanostructure modified electrode as a sensor. <i>Journal of Electroanalytical Chemistry</i> , 2016, 778, 103-109.	3.8	73
9	Electro-oxidation of nimesulide at 5% barium-doped zinc oxide nanoparticle modified glassy carbon electrode. <i>Journal of Electroanalytical Chemistry</i> , 2016, 762, 37-42.	3.8	71
10	Construction of nanoparticles composite sensor for atorvastatin and its determination in pharmaceutical and urine samples. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 1462-1470.	7.8	69
11	Silver-Doped Titania Modified Carbon Electrode for Electrochemical Studies of Furantril. <i>ECS Journal of Solid State Science and Technology</i> , 2018, 7, Q3215-Q3220.	1.8	69
12	Electrooxidation and determination of flufenamic acid at graphene oxide modified carbon electrode. <i>Surfaces and Interfaces</i> , 2017, 9, 107-113.	3.0	64
13	Novel nanoclay-based electrochemical sensor for highly efficient electrochemical sensing nimesulide. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 137, 109210.	4.0	45
14	Electrochemical behavior of diclofenac sodium at coreshell nanostructure modified electrode and its analysis in human urine and pharmaceutical samples. <i>Sensors International</i> , 2020, 1, 100002.	8.4	45
15	Fabrication of MWCNTs and Ru Doped TiO ₂ Nanoparticles Composite Carbon Sensor for Biomedical Application. <i>ECS Journal of Solid State Science and Technology</i> , 2018, 7, Q3070-Q3078.	1.8	43
16	Analysis of herbicide and its applications through a sensitive electrochemical technique based on MWCNTs/ZnO/CPE fabricated sensor. <i>Chemosphere</i> , 2022, 287, 132086.	8.2	39
17	Real-time water quality monitoring through Internet of Things and ANOVA-based analysis: a case study on river Krishna. <i>Applied Water Science</i> , 2020, 10, 1.	5.6	35
18	Kinetics and mechanistic study of the ruthenium(III) catalyzed oxidative deamination and decarboxylation of L-valine by alkaline permanganate. <i>Canadian Journal of Chemistry</i> , 2001, 79, 1926-1933.	1.1	31

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19	Kinetics and mechanistic study of the ruthenium(III) catalyzed oxidative deamination and decarboxylation of L-valine by alkaline permanganate. Canadian Journal of Chemistry, 2001, 79, 1926-1933.	1.1	29
20	Synthesis and Characterization of Silver Nano Particles for EDM Applications. Materials Today: Proceedings, 2017, 4, 12054-12060.	1.8	29
21	RuO ₂ /TiO ₂ semiconducting nanoparticles for the photo-catalytic degradation of bromothymol blue. Journal of Materials Science: Materials in Electronics, 2016, 27, 13065-13074.	2.2	28
22	Ag-TiO ₂ nanoparticles for photocatalytic degradation of lomefloxacin. Desalination and Water Treatment, 2016, 57, 16111-16118.	1.0	27
23	Electro-oxidation and determination of nimesulide at nanosilica modified sensor. Materials Science for Energy Technologies, 2019, 2, 396-400.	1.8	26
24	Nanostructured Ba/ZnO modified electrode as a sensor material for detection of organosulfur thiosalicylic acid. Microchemical Journal, 2020, 159, 105409.	4.5	25
25	Study of the Effect of Nano-silica Particles on Resin-Bonded Moulding Sand Properties and Quality of Casting. Silicon, 2018, 10, 1921-1936.	3.3	23
26	Electro-sensing base for hazardous pesticide 2, 4-DCP and its quantification in real samples at ZnO@Cu core-shell nanoparticles in the presence of cationic surfactant. Materials Chemistry and Physics, 2022, 278, 125705.	4.0	23
27	Comparative study of the chromium(III) catalysed oxidation of L-leucine and L-isoleucine by alkaline permanganate: A kinetic and mechanistic approach. Journal of Molecular Catalysis A, 2005, 232, 21-28.	4.8	22
28	Electro-oxidation and determination of 2-thiouracil at TiO ₂ nanoparticles-modified gold electrode. Surfaces and Interfaces, 2017, 6, 127-133.	3.0	22
29	Investigations on effect of nanofluid based minimum quantity lubrication technique for surface milling of Al7075-T6 aerospace alloy. Materials Today: Proceedings, 2020, 27, 251-256.	1.8	21
30	No Barrier for the Gas-Phase C ₂ H ₄ + NH ₃ Reaction. Journal of Physical Chemistry A, 2004, 108, 3695-3698.	2.5	20
31	Title is missing!. Transition Metal Chemistry, 2003, 28, 199-208.	1.4	19
32	Oxidation of Isoniazid by Quinolinium Dichromate in an Aqueous Acid Medium and Kinetic Determination of Isoniazid in Pure and Pharmaceutical Formulations. Analytical Sciences, 2004, 20, 743-747.	1.6	18
33	Kinetics, thermodynamic, and adsorption studies on removal of chromium(VI) using Tulsion A-27(MP) resin. Desalination and Water Treatment, 2013, 51, 3273-3283.	1.0	18
34	Transformation of Levofloxacin during Water Chlorination Process: Kinetics and Pathways. Progress in Reaction Kinetics and Mechanism, 2012, 37, 366-382.	2.1	15
35	Kinetics and adsorption studies on the removal of levofloxacin using coconut coir charcoal impregnated with Al ₂ O ₃ nanoparticles. Desalination and Water Treatment, 2016, 57, 23918-23926.	1.0	15
36	The Effect of Zn and ZnO/WO ₃ Composites Nano-Coatings Deposition on Hardness and Corrosion Resistance in Steel Substrate. Materials, 2021, 14, 2253.	2.9	15

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37	Kinetics and Mechanism of Oxidation of Bromate by Diperoxidatonickelate(IV) in Aqueous Alkaline Medium–A Simple Method for Formation of Perbromate. <i>Inorganic Reaction Mechanisms</i> , 2002, 4, 103-109.	0.4	14
38	5% Barium doped zinc oxide semiconductor nanoparticles for the photocatalytic degradation of Linezolid: synthesis and characterisation. <i>SN Applied Sciences</i> , 2019, 1, .	2.9	14
39	Oxidation of Nicotinate Ion by Heptavalent Manganese: a Kinetic and Mechanistic Approach. <i>Zeitschrift Fur Physikalische Chemie</i> , 2003, 217, 1-12.	2.8	13
40	Oxidative transformation of antiretroviral drug zidovudine during water treatment with permanganate: reaction kinetics and pathways. <i>Desalination and Water Treatment</i> , 2016, 57, 24999-25010.	1.0	12
41	Electrochemical investigations-based on ZnO@Cu core-shell in presence of CTAB surfactant for 4-Chlorophenol. <i>Environmental Technology and Innovation</i> , 2021, 24, 102029.	6.1	12
42	Kinetic and Mechanistic Study of Oxidative Degradation of Paracetamol by Diperoxidatonickelate (IV) in Aqueous Alkaline Medium. <i>Journal of Chemical Research</i> , 2002, 2002, 147-148.	1.3	11
43	Experimental and theoretical studies on the oxidation of lomefloxacin by alkaline permanganate. <i>Desalination and Water Treatment</i> , 2016, 57, 10826-10838.	1.0	11
44	A Review on Nanofluids for Machining. <i>Current Nanoscience</i> , 2017, 13, .	1.2	11
45	An enhanced sensing platform for clozapine at 2.0% silver doped TiO ₂ nanoparticles - A sensitive detection. <i>Materials Today: Proceedings</i> , 2018, 5, 21271-21278.	1.8	9
46	Seawater-Washed Activated Bauxite Residue for Fluoride Removal: Waste Utilization Technique. <i>Journal of Environmental Engineering, ASCE</i> , 2018, 144, .	1.4	9
47	Development of a novel photocatalyst: Titania nanostructure bunches decorated on graphene oxide for enhanced photocatalytic efficiency. <i>Materials Research Bulletin</i> , 2022, 146, 111601.	5.2	9
48	Kinetic and Mechanistic Study of Oxidation of Sulfamethoxazole by Alkaline Permanganate. <i>Inorganic Reaction Mechanisms</i> , 2002, 3, 239-247.	0.4	8
49	Mechanistic and spectroscopic investigations of Ru ³⁺ -catalyzed oxidative degradation of azidothymidine by heptavalent manganese at environmentally relevant pH. <i>Desalination and Water Treatment</i> , 2016, 57, 28349-28362.	1.0	8
50	PHOTOCATALYTIC DEGRADATION OF PHARMACEUTICAL DRUG ZIDOVUDINE BY UNDOPED AND 5 % BARIUM DOPED ZINC OXIDE NANOPARTICLES DURING WATER TREATMENT: SYNTHESIS AND CHARACTERISATION. <i>International Journal of Applied Pharmaceutics</i> , 2019, 11, 227.	0.3	8
51	Synergetic effect of rubber on the tensile and flexural properties of graphene based epoxy-carbon fiber hybrid nanocomposite. <i>Materials Today: Proceedings</i> , 2020, 27, 515-518.	1.8	8
52	Application of quantum cascade lasers for infrared spectroscopy of jet-cooled molecules and complexes. <i>Proceedings of SPIE</i> , 2009, , .	0.8	7
53	Removal of Hexavalent Chromium from Water and Organic Solvent Mixed Media by Adsorption Using Weak Base Anion Exchanger Tulsion A-2X (MP). <i>Asian Journal of Chemistry</i> , 2018, 30, 1083-1087.	0.3	7
54	TiO ₂ nanoparticles modified sensor for theophylline drug. <i>Materials Today: Proceedings</i> , 2019, 18, 606-612.	1.8	7

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55	Adsorptive removal of vanadium from aqueous media by ion exchange resin. Emergent Materials, 0, , 1.	5.7	7
56	Electroanalysis of 1,3-dimethylexanthine at zinc oxide nanoparticles modified electrode. Materials Today: Proceedings, 2019, 18, 590-595.	1.8	6
57	Thermal Conductivity Enhancement by Al ₂ O ₃ @Cu, core@shell Nanoparticle Suspensions in Nanofluid Coolant. Annales De Chimie: Science Des Materiaux, 2019, 43, 23-28.	0.4	6
58	Absolute rate coefficients of the reactions of CF ₂ ($\tilde{\Lambda}$ 3B1) with C ₃ H ₈ , C ₃ H ₆ , iso-C ₄ H ₈ and C ₃ H ₄ between 295 and 550 K. Physical Chemistry Chemical Physics, 2004, 6, 2211-2215.	2.8	5
59	Electrochemical behavior of mefenamic acid at zinc oxide nanoparticles modified carbon paste electrode. Materials Today: Proceedings, 2018, 5, 21458-21465.	1.8	5
60	A Review on Synthesis, Functionalization, Processing and Applications of Graphene Based High Performance Polymer Nanocomposites. Current Nanoscience, 2022, 18, 167-181.	1.2	5
61	Sorption of hexavalent chromium from water and water-organic solvents onto an ion exchanger Tulsion A-23(Gel). Desalination and Water Treatment, 2016, 57, 23965-23974.	1.0	4
62	Nano-silica modified electrode as a sensor for the determination of mefenamic acid - A voltammetric sensor. Materials Today: Proceedings, 2018, 5, 21466-21473.	1.8	4
63	Voltammetric detection and determination of mefenamic acid at silver-doped TiO ₂ nanoparticles modified electrode. Materials Today: Proceedings, 2019, 18, 671-678.	1.8	4
64	Evaluation and Analysis of Goodness of Fit for Water Quality Parameters Using Linear Regression Through the Internet-of-Things-Based Water Quality Monitoring System. IEEE Internet of Things Journal, 2022, 9, 14400-14407.	8.7	4
65	Synthesis, characterisation and photocatalytic degradation of linezolid during water treatment by ruthenium doped titanium dioxide semiconducting nanoparticles. AIP Conference Proceedings, 2019, , .	0.4	3
66	Development of a sensor for thiosalicylic acid at MWCNT modified gold. Materials Today: Proceedings, 2019, 18, 723-730.	1.8	3
67	ZnO nanoparticles modified sensor for the electroanalysis of thiosalicylic acid. Materials Today: Proceedings, 2019, 18, 710-716.	1.8	3
68	Kinetics and Mechanistic Investigation of Ru(III) Catalyzed Oxidative Degradation of Linezolid by Permanganate at Environmentally Relevant pH. Asian Journal of Chemistry, 2019, 31, 268-274.	0.3	3
69	Kinetic and Mechanistic Investigation of Oxidative Degradation and Deamination of Atenolol by Diperoxidate nickelate(IV) in Aqueous Alkaline Medium. Journal of Chemical Research, 2003, 2003, 315-316.	1.3	2
70	Oxidation of linezolid by permanganate in acidic medium: Pd(II) catalysis, kinetics and pathways. Progress in Reaction Kinetics and Mechanism, 2016, 41, 245-257.	2.1	2
71	Light Emitting Diode Based Evanescent Wave Fiber Optic Chemical Sensor for Detection of Thiocyanate. Asian Journal of Chemistry, 2018, 30, 351-354.	0.3	2
72	Development of polymer nano composite patterns using fused deposition modeling for rapid investment casting process. AIP Conference Proceedings, 2018, , .	0.4	2

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73	Uncatalysed oxidative degradation of cefadroxil by heptavalent manganese during water treatment: Reaction kinetics and pathways. AIP Conference Proceedings, 2019, , .	0.4	2
74	A novel sensor based on graphene oxide nanoparticles for the detection and analysis of an antihistamine drug. Materials Today: Proceedings, 2019, 18, 780-787.	1.8	2
75	Effect of manufacturing method of Cu-Al electrode on performance during electric discharge machining of siliconised silicon carbide (SiSiC). Materials Today: Proceedings, 2020, 27, 120-129.	1.8	2
76	Palladium (II)-catalysed oxidation kinetics of azidothymidine by heptavalent manganese during water treatment: kinetics, mechanism, and degradation. , 0, 144, 211-223.		2
77	Title is missing!. Reaction Kinetics and Catalysis Letters, 2001, 73, 349-355.	0.6	1
78	Deamination and decarboxylation of L-tyroxine by Chloroamine-T (CAT) in acidic medium: A mechanistic and kinetic study. Russian Journal of Physical Chemistry B, 2016, 10, 922-928.	1.3	1
79	Ag(I)-Catalyzed Chlorination of Linezolid during Water Treatment: Kinetics and Mechanism. International Journal of Chemical Kinetics, 2018, 50, 495-506.	1.6	1
80	Studies on hexavalent chromium removal from electroplating rinse solution onto an anion exchanger. AIP Conference Proceedings, 2020, , .	0.4	1
81	Investigations on the effect of nozzle angle and air flow rate during nanofluid Minimum Quantity Lubrication milling of Aerospace alloy Al7075-T6. IOP Conference Series: Materials Science and Engineering, 2020, 872, 012083.	0.6	1
82	Natural aerogels for pollutant removal. , 2021, , 19-32.		1
83	Sorption of chromium (VI) from electroplating rinse water by strong base anion exchanger: equilibrium and kinetic studies. Journal of Physics: Conference Series, 2021, 1913, 012076.	0.4	1
84	Aerogel and its composites: fabrication and properties. , 2021, , 1-17.		1
85	Photocatalytic degradation of zidovudine by 0.8% ruthenium doped titanium dioxide nanoparticles during water treatment: synthesis, characterisation, kinetics and mechanism. , 0, 182, 288-298.		1
86	Performance Analysis of K-Nearest Neighbor Classification Algorithms for Bank Loan Sectors. Advances in Parallel Computing, 2021, , .	0.3	1
87	LED based evanescent wave fiber optic sensor technique to detect Fe ²⁺ concentration. , 2016, , .		0
88	Synthesis, characterization and investigation of ZnO @ Cu/CuO core-multishell nanoparticles for solar energy harvesting. AIP Conference Proceedings, 2018, , .	0.4	0
89	Ba-ZnO nanoparticles for photo-catalytic degradation of chloramphenicol. AIP Conference Proceedings, 2018, , .	0.4	0
90	Oxidative Degradation of Paliperidone Using Potassium Permanganate in Acid Medium. Asian Journal of Chemistry, 2019, 31, 389-392.	0.3	0

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91	Adsorptive removals of pollutants using aerogels and its composites. , 2021, , 171-199.		0
92	Enhancement of Coefficient of Performance for Polyalkylene Glycol (PAG) Oil with Addition of Silver Nanoparticles for Refrigerant Application. Journal of Advanced Research in Dynamical and Control Systems, 2019, 11, 915-922.	0.2	0
93	Removal of Pharmaceutical Drug from Water Using Activated Kaoliniteâ€™TiO2 Nanocomposite. Lecture Notes in Civil Engineering, 2021, , 355-364.	0.4	0