

Raviraj M Kulkarni

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/906668/publications.pdf>

Version: 2024-02-01

93
papers

1,868
citations

257450

24
h-index

276875

41
g-index

94
all docs

94
docs citations

94
times ranked

1282
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	A Review on Synthesis, Functionalization, Processing and Applications of Graphene Based High Performance Polymer Nanocomposites. Current Nanoscience, 2022, 18, 167-181.	1.2	5
3	Analysis of herbicide and its applications through a sensitive electrochemical technique based on MWCNTs/ZnO/CPE fabricated sensor. Chemosphere, 2022, 287, 132086.	8.2	39
4	Development of a novel photocatalyst: Titania nanostructure bunches decorated on graphene oxide for enhanced photocatalytic efficiency. Materials Research Bulletin, 2022, 146, 111601.	5.2	9
5	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
6	Natural aerogels for pollutant removal. , 2021, , 19-32.		1
7	Adsorptive removals of pollutants using aerogels and its composites. , 2021, , 171-199.		0
8	The Effect of Zn and Zn@WO ₃ Composites Nano-Coatings Deposition on Hardness and Corrosion Resistance in Steel Substrate. Materials, 2021, 14, 2253.	2.9	15
9	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
10	Aerogel and its composites: fabrication and properties. , 2021, , 1-17.		1
11	Performance Analysis of K-Nearest Neighbor Classification Algorithms for Bank Loan Sectors. Advances in Parallel Computing, 2021, , .	0.3	1
12	Electrochemical investigations-based on ZnO@Cu core-shell in presence of CTAB surfactant for 4-Chlorophenol. Environmental Technology and Innovation, 2021, 24, 102029.	6.1	12
13	Removal of Pharmaceutical Drug from Water Using Activated Kaolinite@TiO ₂ Nanocomposite. Lecture Notes in Civil Engineering, 2021, , 355-364.	0.4	0
14	Novel nanoclay-based electrochemical sensor for highly efficient electrochemical sensing nimesulide. Journal of Physics and Chemistry of Solids, 2020, 137, 109210.	4.0	45
15	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
16	Synergetic effect of rubber on the tensile and flexural properties of graphene based epoxy-carbon fiber hybrid nanocomposite. Materials Today: Proceedings, 2020, 27, 515-518.	1.8	8
17	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
18	Real-time water quality monitoring through Internet of Things and ANOVA-based analysis: a case study on river Krishna. Applied Water Science, 2020, 10, 1.	5.6	35

#	ARTICLE	IF	CITATIONS
19	Studies on hexavalent chromium removal from electroplating rinse solution onto an anion exchanger. AIP Conference Proceedings, 2020, , .	0.4	1
20	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
21	Nanostructured Ba/ZnO modified electrode as a sensor material for detection of organosulfur thiosalicylic acid. Microchemical Journal, 2020, 159, 105409.	4.5	25
22	Electrochemical behavior of diclofenac sodium at coreshell nanostructure modified electrode and its analysis in human urine and pharmaceutical samples. Sensors International, 2020, 1, 100002.	8.4	45
23	Electroanalysis of Carbendazim using MWCNT/Ca ²⁺ ZnO Modified Electrode. Electroanalysis, 2020, 32, 1590-1599.	2.9	81
24	Development of a novel nanosensor using Ca-doped ZnO for antihistamine drug. Materials Chemistry and Physics, 2020, 246, 122791.	4.0	85
25	Synthesis, characterisation and photocatalytic degradation of linezolid during water treatment by ruthenium doped titanium dioxide semiconducting nanoparticles. AIP Conference Proceedings, 2019, , .	0.4	3
26	Electroanalysis of 1,3 ^β -dimethylexanthine at zinc oxide nanoparticles modified electrode. Materials Today: Proceedings, 2019, 18, 590-595.	1.8	6
27	TiO ₂ nanoparticles modified sensor for theophylline drug. Materials Today: Proceedings, 2019, 18, 606-612.	1.8	7
28	Uncatalysed oxidative degradation of cefadroxil by heptavalent manganese during water treatment: Reaction kinetics and pathways. AIP Conference Proceedings, 2019, , .	0.4	2
29	Development of a sensor for thiosalicylic acid at MWCNT modified gold. Materials Today: Proceedings, 2019, 18, 723-730.	1.8	3
30	ZnO nanoparticles modified sensor for the electroanalysis of thiosalicylic acid. Materials Today: Proceedings, 2019, 18, 710-716.	1.8	3
31	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
32	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
33	PHOTOCATALYTIC DEGRADATION OF PHARMACEUTICAL DRUG ZIDOVUDINE BY UNDOPED AND 5 % BARIUM DOPED ZINC OXIDE NANOPARTICLES DURING WATER TREATMENT: SYNTHESIS AND CHARACTERISATION. International Journal of Applied Pharmaceutics, 2019, 11, 227.	0.3	8
34	Electro-oxidation and determination of nimesulide at nanosilica modified sensor. Materials Science for Energy Technologies, 2019, 2, 396-400.	1.8	26
35	Oxidative Degradation of Paliperidone Using Potassium Permanganate in Acid Medium. Asian Journal of Chemistry, 2019, 31, 389-392.	0.3	0
36	Electro-Catalytic Behavior of Mg-Doped ZnO Nano-Flakes for Oxidation of Anti-Inflammatory Drug. Journal of the Electrochemical Society, 2019, 166, B3072-B3078.	2.9	88

#	ARTICLE	IF	CITATIONS
37	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
38	5% Barium doped zinc oxide semiconductor nanoparticles for the photocatalytic degradation of Linezolid: synthesis and characterisation. SN Applied Sciences, 2019, 1, .	2.9	14
39	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
40	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
41	Fabrication of MWCNTs and Ru Doped TiO ₂ Nanoparticles Composite Carbon Sensor for Biomedical Application. ECS Journal of Solid State Science and Technology, 2018, 7, Q3070-Q3078.	1.8	43
42	Ag(I) Catalyzed Chlorination of Linezolid during Water Treatment: Kinetics and Mechanism. International Journal of Chemical Kinetics, 2018, 50, 495-506.	1.6	1
43	Construction of nanoparticles composite sensor for atorvastatin and its determination in pharmaceutical and urine samples. Sensors and Actuators B: Chemical, 2018, 255, 1462-1470.	7.8	69
44	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
45	An enhanced sensing platform for clozapine at 2.0% silver doped TiO ₂ nanoparticles - A sensitive detection. Materials Today: Proceedings, 2018, 5, 21271-21278.	1.8	9
46	Electrochemical behavior of mefenamic acid at zinc oxide nanoparticles modified carbon paste electrode. Materials Today: Proceedings, 2018, 5, 21458-21465.	1.8	5
47	Removal of Hexavalent Chromium from Water and Organic Solvent Mixed Media by Adsorption Using Weak Base Anion Exchanger Tulsion A-2X (MP). Asian Journal of Chemistry, 2018, 30, 1083-1087.	0.3	7
48	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
49	Seawater-Washed Activated Bauxite Residue for Fluoride Removal: Waste Utilization Technique. Journal of Environmental Engineering, ASCE, 2018, 144, .	1.4	9
50	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
51	Synthesis, characterization and investigation of ZnO @ Cu/CuO core-multishell nanoparticles for solar energy harvesting. AIP Conference Proceedings, 2018, , .	0.4	0
52	Silver-Doped Titania Modified Carbon Electrode for Electrochemical Studies of Furantril. ECS Journal of Solid State Science and Technology, 2018, 7, Q3215-Q3220.	1.8	69
53	Ba-ZnO nanoparticles for photo-catalytic degradation of chloramphenicol. AIP Conference Proceedings, 2018, , .	0.4	0
54	Development of polymer nano composite patterns using fused deposition modeling for rapid investment casting process. AIP Conference Proceedings, 2018, , .	0.4	2

#	ARTICLE	IF	CITATIONS
55	Electro-oxidation and determination of 2-thiouracil at TiO ₂ nanoparticles-modified gold electrode. <i>Surfaces and Interfaces</i> , 2017, 6, 127-133.	3.0	22
56	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
57	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
58	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
59	Electrooxidation and determination of flufenamic acid at graphene oxide modified carbon electrode. <i>Surfaces and Interfaces</i> , 2017, 9, 107-113.	3.0	64
60	Synthesis and Characterization of Silver Nano Particles for EDM Applications. <i>Materials Today: Proceedings</i> , 2017, 4, 12054-12060.	1.8	29
61	A Review on Nanofluids for Machining. <i>Current Nanoscience</i> , 2017, 13, .	1.2	11
62	Oxidation of linezolid by permanganate in acidic medium: Pd(II) catalysis, kinetics and pathways. <i>Progress in Reaction Kinetics and Mechanism</i> , 2016, 41, 245-257.	2.1	2
63	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
64	LED based evanescent wave fiber optic sensor technique to detect Fe ²⁺ concentration. , 2016, , .		0
65	Deamination and decarboxylation of L-thyroxine by Chloroamine-T (CAT) in acidic medium: A mechanistic and kinetic study. <i>Russian Journal of Physical Chemistry B</i> , 2016, 10, 922-928.	1.3	1
66	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
67	Ru ³⁺ -TiO ₂ semiconducting nanoparticles for the photo-catalytic degradation of bromothymol blue. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 13065-13074.	2.2	28
68	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
69	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
70	Sorption of hexavalent chromium from water and water-organic solvents onto an ion exchanger Tulsion A-23(Gel). <i>Desalination and Water Treatment</i> , 2016, 57, 23965-23974.	1.0	4
71	Kinetics and adsorption studies on the removal of levofloxacin using coconut coir charcoal impregnated with Al ₂ O ₃ nanoparticles. <i>Desalination and Water Treatment</i> , 2016, 57, 23918-23926.	1.0	15
72	Ag-TiO ₂ nanoparticles for photocatalytic degradation of lomefloxacin. <i>Desalination and Water Treatment</i> , 2016, 57, 16111-16118.	1.0	27

#	ARTICLE	IF	CITATIONS
73	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
74	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
75	Kinetics, thermodynamic, and adsorption studies on removal of chromium(VI) using Tulsion A-27(MP) resin. <i>Desalination and Water Treatment</i> , 2013, 51, 3273-3283.	1.0	18
76	Transformation of Levofloxacin during Water Chlorination Process: Kinetics and Pathways. <i>Progress in Reaction Kinetics and Mechanism</i> , 2012, 37, 366-382.	2.1	15
77	Application of quantum cascade lasers for infrared spectroscopy of jet-cooled molecules and complexes. <i>Proceedings of SPIE</i> , 2009, , .	0.8	7
78	Comparative study of the chromium(III) catalysed oxidation of L-leucine and L-isoleucine by alkaline permanganate: A kinetic and mechanistic approach. <i>Journal of Molecular Catalysis A</i> , 2005, 232, 21-28.	4.8	22
79	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. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 2211-2215.	2.8	5
80	No Barrier for the Gas-Phase C ₂ H + NH ₃ Reaction. <i>Journal of Physical Chemistry A</i> , 2004, 108, 3695-3698.	2.5	20
81	Oxidation of Isoniazid by Quinolinium Dichromate in an Aqueous Acid Medium and Kinetic Determination of Isoniazid in Pure and Pharmaceutical Formulations. <i>Analytical Sciences</i> , 2004, 20, 743-747.	1.6	18
82	Title is missing!. <i>Transition Metal Chemistry</i> , 2003, 28, 199-208.	1.4	19
83	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
84	Kinetic and Mechanistic Investigation of Oxidative Degradation and Deamination of Atenolol by Diperoxidatonicelate(IV) in Aqueous Alkaline Medium. <i>Journal of Chemical Research</i> , 2003, 2003, 315-316.	1.3	2
85	Kinetics and Mechanism of Oxidation of Bromate by Diperoxidatonicelate(IV) in Aqueous Alkaline Medium—A Simple Method for Formation of Perbromate. <i>Inorganic Reaction Mechanisms</i> , 2002, 4, 103-109.	0.4	14
86	Kinetic and Mechanistic Study of Oxidative Degradation of Paracetamol by Diperoxidatonicelate (IV) in Aqueous Alkaline Medium. <i>Journal of Chemical Research</i> , 2002, 2002, 147-148.	1.3	11
87	Kinetic and Mechanistic Study of Oxidation of Sulfamethoxazole by Alkaline Permanganate. <i>Inorganic Reaction Mechanisms</i> , 2002, 3, 239-247.	0.4	8
88	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	29
89	Title is missing!. <i>Reaction Kinetics and Catalysis Letters</i> , 2001, 73, 349-355.	0.6	1
90	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

#	ARTICLE	IF	CITATIONS
91	Adsorptive removal of vanadium from aqueous media by ion exchange resin. Emergent Materials, 0, , 1.	5.7	7
92	Palladium (II)-catalysed oxidation kinetics of azidothymidine by heptavalent manganese during water treatment: kinetics, mechanism, and degradation. , 0, 144, 211-223.		2
93	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