

# Suvaradhan Kanchi

## List of Publications by Year in descending order

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92  
papers

2,561  
citations

346980

22  
h-index

232693

48  
g-index

99  
all docs

99  
docs citations

99  
times ranked

4033  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effective adsorption of Fuchsin dye on FeZnOAC: kinetic, isotherm, double-layer modelling and reusability study. <i>International Journal of Environmental Analytical Chemistry</i> , 2023, 103, 3954-3970.	1.8	6
2	Double-layer modelling and physicochemical parameters interpretation for chromium adsorption on ZnMnOAC nanocomposite. <i>Inorganic and Nano-Metal Chemistry</i> , 2023, 53, 228-238.	0.9	3
3	Low dimensional Bi <sub>2</sub> Se <sub>3</sub> NPs/reduced graphene oxide nanocomposite for simultaneous detection of L-Dopa and acetaminophen in presence of ascorbic acid in biological samples and pharmaceuticals. <i>Journal of Nanostructure in Chemistry</i> , 2022, 12, 513-528.	5.3	11
4	A Mini Review on Surface-Enhanced Raman Scattering based Nanoclusters for Sensing and Imaging Applications. <i>Current Analytical Chemistry</i> , 2022, 18, 430-439.	0.6	2
5	Adsorption of Cr(VI) on Ultrafine Al <sub>2</sub> O <sub>3</sub> -doped MnFe <sub>2</sub> O <sub>4</sub> nanocomposite surface: Experimental and theoretical study using double-layer modeling. <i>Journal of Physics and Chemistry of Solids</i> , 2022, 163, 110544.	1.9	10
6	A novel IL-f-ZnONPs@MWCNTs nanocomposite fabricated glassy carbon electrode for the determination of sulfamethoxazole. <i>Journal of Molecular Liquids</i> , 2022, 359, 119232.	2.3	13
7	An ultra-sensitive laccase/polyaziridine-bismuth selenide nanoplates modified GCE for detection of atenolol in pharmaceuticals and urine samples. <i>Bioelectrochemistry</i> , 2022, 147, 108212.	2.4	6
8	Development of a ternary conducting composite (PPy/Au/CNT@Fe <sub>3</sub> O <sub>4</sub> ) immobilized FRT/GOD bioanode for glucose/oxygen biofuel cell applications. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 3259-3269.	3.8	27
9	Smart Nanodevices for Point-of-Care Applications. <i>Current Analytical Chemistry</i> , 2021, 17, .	0.6	1
10	Advanced applications of green materials in biosensor. , 2021, , 33-75.		0
11	A Selective Ratiometric Receptor 2-((E)-(3-(prop-1-en-2-yl)phenylimino)methyl)-4-nitrophenol for the Detection of Cu <sup>2+</sup> Ions Supported By DFT Studies. <i>Journal of Fluorescence</i> , 2021, 31, 625-634.	1.3	4
12	Adsorption of Congo Red on Pb doped Fe <sub>3</sub> O <sub>4</sub> : experimental study and theoretical modeling via double-layer statistical physics models. <i>Water Science and Technology</i> , 2021, 83, 1714-1727.	1.2	10
13	Measurement of TiO <sub>2</sub> Nanoscale Ingredients in Sunscreens by Multidetector AF4, TEM, and spICP-MS Supported by Computational Modeling. <i>ACS Applied Nano Materials</i> , 2021, 4, 4665-4675.	2.4	11
14	Evaluation of the catalytic activity of graphene oxide and zinc oxide nanoparticles on the electrochemical sensing of T1R2-Rebaudioside A complex supported by <i>in silico</i> methods. <i>Pure and Applied Chemistry</i> , 2021, 93, 1171-1180.	0.9	1
15	Sensitivity Enhancement of Pre-Capillary Chelation Method for the Separation of Metal Ions: Experimental and DFT Study. <i>Current Analytical Chemistry</i> , 2021, 17, 839-848.	0.6	0
16	Removal of Targeted Pharmaceuticals and Personal Care Products from Wastewater Treatment Plants using QSAR Model. <i>Current Analytical Chemistry</i> , 2021, 17, 1003-1015.	0.6	1
17	Separation of Sucralose in Food Samples using Amines as Background Electrolyte Supported with DFT Calculations. <i>Current Analytical Chemistry</i> , 2021, 17, 989-1002.	0.6	1
18	Statistical modeling and interpretation of Sono-assisted adsorption mechanism of Crystal Violet dye on FeTiPbO Nanocomposite. <i>Journal of Molecular Liquids</i> , 2021, 340, 116878.	2.3	7

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19	Hydrothermally synthesized defective NiMoSe <sub>2</sub> nanoplates decorated on the surface of functionalized SWCNTs doped polypyrrole scaffold for enzymatic biofuel cell applications. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 3240-3250.	3.8	11
20	Functionalized Electrochemical Aptasensor for Sensing of Ochratoxin A in Cereals Supported by <i>in Silico</i> Adsorption Studies. <i>ACS Food Science &amp; Technology</i> , 2021, 1, 1849-1860.	1.3	2
21	High Performance Electrochemical Biosensor for Bisphenol A Using Screen Printed Electrodes Modified with Multiwalled Carbon Nanotubes Functionalized with Silver-Doped Zinc Oxide. <i>Waste and Biomass Valorization</i> , 2020, 11, 1085-1096.	1.8	32
22	One-pot biosynthesis of silver nanoparticle using <i>Colocasia esculenta</i> extract: Colorimetric detection of melamine in biological samples. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 391, 112310.	2.0	28
23	Highly-efficient electrochemical label-free immunosensor for the detection of ochratoxin A in coffee samples. <i>Sensors and Actuators B: Chemical</i> , 2020, 305, 127438.	4.0	49
24	Multivariate optimization of field-flow fractionation of nanoscale synthetic amorphous silica in processed foods supported by computational modelling. <i>New Journal of Chemistry</i> , 2020, 44, 17542-17551.	1.4	4
25	Electrochemical Enzymatic Biosensing of Neotame Supported by Computational Methods. <i>Electroanalysis</i> , 2020, 32, 2669-2680.	1.5	8
26	Experimental and Computational Studies of a Laccase Immobilized ZnONPs/GO-Based Electrochemical Enzymatic Biosensor for the Detection of Sucralose in Food Samples. <i>Food Analytical Methods</i> , 2020, 13, 2014-2027.	1.3	17
27	Current trends, achievements, and prospects of smart nanodevices in the global pharma market. , 2020, , 351-393.		0
28	An in-silico layer-by-layer adsorption study of the interaction between Rebaudioside A and the T1R2 human sweet taste receptor: modelling and biosensing perspectives. <i>Scientific Reports</i> , 2020, 10, 18391.	1.6	9
29	Simultaneous detection of ethambutol and pyrazinamide with IL@CoFe <sub>2</sub> O <sub>4</sub> NPs@MWCNTs fabricated glassy carbon electrode. <i>Scientific Reports</i> , 2020, 10, 13563.	1.6	23
30	Green synthesis of ZnO nanoparticles decorated on polyindole functionalized-MCNTs and used as anode material for enzymatic biofuel cell applications. <i>Scientific Reports</i> , 2020, 10, 5052.	1.6	60
31	Electrochemical Biosensor for the Detection of Amygdalin in Apple Seeds with a Hybrid of f-MWCNTs/CoFe <sub>2</sub> O <sub>4</sub> Nanocomposite. <i>Current Analytical Chemistry</i> , 2020, 16, 660-668.	0.6	11
32	Nanotechnology-based water quality management for wastewater treatment. <i>Environmental Chemistry Letters</i> , 2019, 17, 65-121.	8.3	105
33	Novel on-site residual screening of poly-diallyldimethylammonium chloride in treated potable water using gold nanoparticle based lovibond color filters. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 101, 159-166.	2.7	7
34	Recent Trends in Sensors for Health and Agricultural Applications. , 2019, , 341-355.		6
35	Cholesterol-Based Enzymatic and Nonenzymatic Sensors. , 2019, , 315-339.		3
36	Computational studies on the molecular insights of aptamer induced poly(N-isopropylacrylamide)-graft-graphene oxide for on/off- switchable whole-cell cancer diagnostics. <i>Scientific Reports</i> , 2019, 9, 7873.	1.6	20

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37	Green Nanomaterials for Clean Environment. , 2019, , 63-79.		5
38	Modeling of neotame and fructose thermochemistry: Comparison with mono and divalent metal ions by Computational and experimental approach. Scientific Reports, 2019, 9, 18414.	1.6	4
39	Theoretical insights into the competitive metal bioaffinity of lactoferrin as a metal ion carrier: a DFT study. New Journal of Chemistry, 2019, 43, 16374-16384.	1.4	10
40	MWCNTs-Fe <sub>2</sub> O <sub>3</sub> nanoparticle nanohybrid-based highly sensitive electrochemicalsensor for the detection of kaempferol in broccoli samples. Turkish Journal of Chemistry, 2019, 43, 1229-1243.	0.5	7
41	Biogenic synthesis of nanoparticles: A review. Arabian Journal of Chemistry, 2019, 12, 3576-3600.	2.3	563
42	Removal of copper (II) from wastewater using green vegetable waste derived activated carbon: An approach to equilibrium and kinetic study. Arabian Journal of Chemistry, 2019, 12, 4331-4339.	2.3	74
43	Recent Trends in Graphene Oxide-Enabled Nanocomposites for Sensing Applications. , 2019, , 1-39.		0
44	Exploitation of de-oiled jatropha waste for gold nanoparticles synthesis: A green approach. Arabian Journal of Chemistry, 2018, 11, 247-255.	2.3	58
45	Selectivity and sensitivity enhanced green energy waste based indirect- $\hat{1}/4$ -solid phase extraction of carbaryl supported by DFT and molecular docking studies. Journal of Molecular Liquids, 2018, 257, 112-120.	2.3	11
46	Membrane technology for water purification. Environmental Chemistry Letters, 2018, 16, 343-365.	8.3	71
47	One-pot biosynthesis of silver nanoparticles using Iboza Riparia and Ilex Mitis for cytotoxicity on human embryonic kidney cells. Journal of Photochemistry and Photobiology B: Biology, 2018, 178, 560-567.	1.7	21
48	Structural basis of pesticide detection by enzymatic biosensing: a molecular docking and MD simulation study. Journal of Biomolecular Structure and Dynamics, 2018, 36, 1402-1416.	2.0	18
49	Smartphone based bioanalytical and diagnosis applications: A review. Biosensors and Bioelectronics, 2018, 102, 136-149.	5.3	227
50	Green synthesis, characterization and electrochemical sensing of silymarin by ZnO nanoparticles: Experimental and DFT studies. Journal of Electroanalytical Chemistry, 2018, 808, 160-172.	1.9	57
51	Green Nanomaterials for Clean Environment. , 2018, , 1-18.		9
52	Light induced DNA-functionalized TiO <sub>2</sub> nanocrystalline interface: Theoretical and experimental insights towards DNA damage detection. Journal of Photochemistry and Photobiology B: Biology, 2018, 188, 159-176.	1.7	18
53	Special Properties of Nanomaterials for Chromatography. , 2018, , 37-54.		1
54	Core-Shell Quantum Dots: Sensing Applications. , 2018, , 313-329.		0

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55	Role of Computational Tools in Designing Enzymatic Biosensors for the Detection of Pesticides in Environment. , 2018, , 287-311.		0
56	Google Analytics and quick response for advancement of gold nanoparticle-based dual lateral flow immunoassay for malaria â€“ Plasmodium lactate dehydrogenase (pLDH). Analytical Methods, 2017, 9, 5943-5951.	1.3	16
57	Computational and experimental evaluation of selective substitution of thiolated coumarin derivatives on gold nanoparticles: Surface enhancing Raman scattering and electrochemical studies. Applied Surface Science, 2017, 396, 695-704.	3.1	7
58	Quantification of Se(IV) and Co(II) in Macrobrachium lamarrei, fresh water prawns and their feeding materials. Arabian Journal of Chemistry, 2017, 10, S306-S313.	2.3	4
59	Robust adsorption of Direct Navy Blue-106 from textile industrial effluents by bio-hydrogen fermented waste derived activated carbon: Equilibrium and kinetic studies. Arabian Journal of Chemistry, 2017, 10, S3084-S3096.	2.3	13
60	Multivariate optimization of differential pulse polarographicâ€“catalytic hydrogen wave technique for the determination of nickel(II) in real samples. Arabian Journal of Chemistry, 2017, 10, S2260-S2272.	2.3	8
61	Studies on Electrochemical Behaviour of Copper(II)-Dithiocarbamate Complexes at DME: Applications to Environmental and Biological Samples. Asian Journal of Chemistry, 2017, 29, 609-613.	0.1	0
62	Molecular Simulation of Chiral Selector-Enantiomer Interactions through Docking: Antimalarial Drugs as Case Study. , 2017, , 363-384.		0
63	Dithiocarbamate Induced Catalytic Hydrogen Wave for the determination of Iron (II) in Waters and Leafy Vegetables: Experimental and Computational Approach. International Journal of Electrochemical Science, 2016, , 8027-8045.	0.5	0
64	Hybrid of ZnONPs/MWCNTs for electrochemical detection of aspartame in food and beverage samples. Journal of Electroanalytical Chemistry, 2016, 774, 51-57.	1.9	21
65	Electrochemical sensing platform amplified with a nanobiocomposite of L-phenylalanine ammonia-lyase enzyme for the detection of capsaicin. Biosensors and Bioelectronics, 2016, 83, 45-53.	5.3	39
66	Spectrophotometric determination of nickel (II) in waters and soils: Novel chelating agents and their biological applications supported by DFT method. Karbala International Journal of Modern Science, 2016, 2, 239-250.	0.5	18
67	Biosynthesis of ZnO nanoparticles using Jacaranda mimosifolia flowers extract: Synergistic antibacterial activity and molecular simulated facet specific adsorption studies. Journal of Photochemistry and Photobiology B: Biology, 2016, 162, 199-207.	1.7	134
68	In-vitro evaluation of copper nanoparticles cytotoxicity on prostate cancer cell lines and their antioxidant, sensing and catalytic activity: One-pot green approach. Journal of Photochemistry and Photobiology B: Biology, 2016, 161, 375-382.	1.7	66
69	An ultrasensitive performance enhanced novel cytochrome c biosensor for the detection of rebudioside A. Biosensors and Bioelectronics, 2016, 77, 116-123.	5.3	25
70	Insight into the biosensing of graphene oxide: Present and future prospects. Arabian Journal of Chemistry, 2016, 9, 238-261.	2.3	98
71	Monitoring of Cetylpyridinium Chloride Levels in Surface Waters: Patent Blue-V as Selective Ligand for Spectrophotometric Determination. Asian Journal of Chemistry, 2016, 28, 1039-1042.	0.1	4
72	Seasonal Variation and Distribution of Anionic Surfactants in and around Tirupati: A Famous Pilgrim Centre in South India. Asian Journal of Chemistry, 2015, 27, 3655-3657.	0.1	3

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73	Novel Dithiocarbamates for Electrochemical Detection of Nickel(II) in Environmental Samples. Asian Journal of Chemistry, 2015, 27, 3598-3604.	0.1	2
74	Fabrication of copper nanoparticles decorated multiwalled carbon nanotubes as a high performance electrochemical sensor for the detection of neotame. Biosensors and Bioelectronics, 2015, 67, 200-207.	5.3	30
75	Analytical evaluation of steviol glycosides by capillary electrophoresis supported with molecular docking studies. Journal of the Iranian Chemical Society, 2015, 12, 127-136.	1.2	12
76	Polarographic Interaction of Nickel (II) with Ammonium Piperidine-1-Carbodithioate: Application to Environmental Samples. Journal of Environmental Analytical Chemistry, 2014, 01, .	0.3	1
77	Nanotechnology for Water Treatment. Journal of Environmental Analytical Chemistry, 2014, 01, .	0.3	18
78	Analytical and Biological Evaluation of Two Schiff's Bases: Spectrophotometric Analysis of Copper (II) in Water and Soil Samples. Journal of Environmental Analytical Chemistry, 2014, 01, .	0.3	1
79	Dye Sensitized Solar Cells: Tool to Overcome the Future Energy Crisis. Journal of Environmental Analytical Chemistry, 2014, 02, .	0.3	1
80	Electrochemical Determination of Capsaicin and Silymarin Using a Glassy Carbon Electrode Modified by Gold Nanoparticle Decorated Multiwalled Carbon Nanotubes. Analytical Letters, 2014, 47, 2813-2828.	1.0	38
81	Determination of Neotame by High-Performance Capillary Electrophoresis Using $\beta$ -cyclodextrin as a Chiral Selector. Analytical Letters, 2014, 47, 2795-2812.	1.0	8
82	Dithiocarbamates as hazardous remediation agent: A critical review on progress in environmental chemistry for inorganic species studies of 20th century. Arabian Journal of Chemistry, 2014, 7, 11-25.	2.3	136
83	Development of Green Energy Waste Activated Carbon for Removal of Trivalent Chromium: Equilibrium and Kinetic Modeling. Separation Science and Technology, 2014, 49, 513-522.	1.3	13
84	Voltammetric Method for Manganese Analysis in Indian Traditional Leafy Vegetables and Medicinal Plants Collected Around Tirupati Town, a Famous Pilgrim Center in India: The Catalytic Hydrogen Wave (CHW) Technique. Food Analytical Methods, 2012, 5, 69-81.	1.3	9
85	The determination of cobalt(II) at DME using catalytic hydrogen current technique in various water samples, agricultural materials and pharmaceuticals. Environmental Monitoring and Assessment, 2011, 183, 531-543.	1.3	6
86	Dithiocarbamates as a Sensitive Electroanalytical Reagent: Determination of Chromium by Catalytic Hydrogen Wave at DME in Water Systems and Vegetables. Food Analytical Methods, 2011, 4, 453-464.	1.3	11
87	Facile and Sensitive Determination of Selenium (IV) in Pharmaceutical Formulations by Flow Injection Spectrophotometry. Journal of Pharmaceutical Sciences, 2008, 97, 1927-1933.	1.6	2
88	Speciation determination of chromium(III) and (VI) using preconcentration cloud point extraction with flame atomic absorption spectrometry (FAAS). Journal of Hazardous Materials, 2008, 150, 582-586.	6.5	106
89	Statistical Physics Model of EBT Adsorption on Pb(II) doped Zinc Oxide Nanoparticles: Kinetics, Isotherm and Reuse Study. International Journal of Environmental Analytical Chemistry, 0, , 1-15.	1.8	7
90	CHAPTER 1. Perspective on Analytical Sciences and Nanotechnology. RSC Detection Science, 0, , 1-34.	0.0	6

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91	Handbook of Biopolymers. , 0, , .		8
92	Nâ€™-(4-(diethylamino)-2-hydroxybenzylidene) isonicotinohydrazide based chemosensor for nanomolar detection of Ni(II) ion. International Journal of Environmental Analytical Chemistry, 0, , 1-17.	1.8	3