

# Suvaradhan Kanchi

## List of Publications by Year in descending order

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92  
papers

2,561  
citations

304743

22  
h-index

206112

48  
g-index

99  
all docs

99  
docs citations

99  
times ranked

3601  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biogenic synthesis of nanoparticles: A review. <i>Arabian Journal of Chemistry</i> , 2019, 12, 3576-3600.	4.9	563
2	Smartphone based bioanalytical and diagnosis applications: A review. <i>Biosensors and Bioelectronics</i> , 2018, 102, 136-149.	10.1	227
3	Dithiocarbamates as hazardous remediation agent: A critical review on progress in environmental chemistry for inorganic species studies of 20th century. <i>Arabian Journal of Chemistry</i> , 2014, 7, 11-25.	4.9	136
4	Biosynthesis of ZnO nanoparticles using Jacaranda mimosifolia flowers extract: Synergistic antibacterial activity and molecular simulated facet specific adsorption studies. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 162, 199-207.	3.8	134
5	Speciation determination of chromium(III) and (VI) using preconcentration cloud point extraction with flame atomic absorption spectrometry (FAAS). <i>Journal of Hazardous Materials</i> , 2008, 150, 582-586.	12.4	106
6	Nanotechnology-based water quality management for wastewater treatment. <i>Environmental Chemistry Letters</i> , 2019, 17, 65-121.	16.2	105
7	Insight into the biosensing of graphene oxide: Present and future prospects. <i>Arabian Journal of Chemistry</i> , 2016, 9, 238-261.	4.9	98
8	Removal of copper (II) from wastewater using green vegetable waste derived activated carbon: An approach to equilibrium and kinetic study. <i>Arabian Journal of Chemistry</i> , 2019, 12, 4331-4339.	4.9	74
9	Membrane technology for water purification. <i>Environmental Chemistry Letters</i> , 2018, 16, 343-365.	16.2	71
10	In-vitro evaluation of copper nanoparticles cytotoxicity on prostate cancer cell lines and their antioxidant, sensing and catalytic activity: One-pot green approach. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 161, 375-382.	3.8	66
11	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.	3.3	60
12	Exploitation of de-oiled jatropha waste for gold nanoparticles synthesis: A green approach. <i>Arabian Journal of Chemistry</i> , 2018, 11, 247-255.	4.9	58
13	Green synthesis, characterization and electrochemical sensing of silymarin by ZnO nanoparticles: Experimental and DFT studies. <i>Journal of Electroanalytical Chemistry</i> , 2018, 808, 160-172.	3.8	57
14	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.	7.8	49
15	Electrochemical sensing platform amplified with a nanobiocomposite of L-phenylalanine ammonia-lyase enzyme for the detection of capsaicin. <i>Biosensors and Bioelectronics</i> , 2016, 83, 45-53.	10.1	39
16	Electrochemical Determination of Capsaicin and Silymarin Using a Glassy Carbon Electrode Modified by Gold Nanoparticle Decorated Multiwalled Carbon Nanotubes. <i>Analytical Letters</i> , 2014, 47, 2813-2828.	1.8	38
17	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.	3.4	32
18	Fabrication of copper nanoparticles decorated multiwalled carbon nanotubes as a high performance electrochemical sensor for the detection of neotame. <i>Biosensors and Bioelectronics</i> , 2015, 67, 200-207.	10.1	30

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19	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.	3.9	28
20	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.	7.1	27
21	An ultrasensitive performance enhanced novel cytochrome c biosensor for the detection of rebaudioside A. <i>Biosensors and Bioelectronics</i> , 2016, 77, 116-123.	10.1	25
22	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.	3.3	23
23	Hybrid of ZnONPs/MWCNTs for electrochemical detection of aspartame in food and beverage samples. <i>Journal of Electroanalytical Chemistry</i> , 2016, 774, 51-57.	3.8	21
24	One-pot biosynthesis of silver nanoparticles using <i>Iboza Riparia</i> and <i>Ilex Mitis</i> for cytotoxicity on human embryonic kidney cells. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 178, 560-567.	3.8	21
25	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.	3.3	20
26	Nanotechnology for Water Treatment. <i>Journal of Environmental Analytical Chemistry</i> , 2014, 01, .	0.3	18
27	Spectrophotometric determination of nickel (II) in waters and soils: Novel chelating agents and their biological applications supported by DFT method. <i>Karbala International Journal of Modern Science</i> , 2016, 2, 239-250.	1.0	18
28	Structural basis of pesticide detection by enzymatic biosensing: a molecular docking and MD simulation study. <i>Journal of Biomolecular Structure and Dynamics</i> , 2018, 36, 1402-1416.	3.5	18
29	Light induced DNA-functionalized TiO <sub>2</sub> nanocrystalline interface: Theoretical and experimental insights towards DNA damage detection. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 188, 159-176.	3.8	18
30	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.	2.6	17
31	Google Analytics and quick response for advancement of gold nanoparticle-based dual lateral flow immunoassay for malaria " Plasmodium lactate dehydrogenase (pLDH). <i>Analytical Methods</i> , 2017, 9, 5943-5951.	2.7	16
32	Development of Green Energy Waste Activated Carbon for Removal of Trivalent Chromium: Equilibrium and Kinetic Modeling. <i>Separation Science and Technology</i> , 2014, 49, 513-522.	2.5	13
33	Robust adsorption of Direct Navy Blue-106 from textile industrial effluents by bio-hydrogen fermented waste derived activated carbon: Equilibrium and kinetic studies. <i>Arabian Journal of Chemistry</i> , 2017, 10, S3084-S3096.	4.9	13
34	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.	4.9	13
35	Analytical evaluation of steviol glycosides by capillary electrophoresis supported with molecular docking studies. <i>Journal of the Iranian Chemical Society</i> , 2015, 12, 127-136.	2.2	12
36	Dithiocarbamates as a Sensitive Electroanalytical Reagent: Determination of Chromium by Catalytic Hydrogen Wave at DME in Water Systems and Vegetables. <i>Food Analytical Methods</i> , 2011, 4, 453-464.	2.6	11

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37	Selectivity and sensitivity enhanced green energy waste based indirect- $\gamma$ -solid phase extraction of carbaryl supported by DFT and molecular docking studies. <i>Journal of Molecular Liquids</i> , 2018, 257, 112-120.	4.9	11
38	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.	5.0	11
39	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.	9.1	11
40	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.	7.1	11
41	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.	1.2	11
42	Theoretical insights into the competitive metal bioaffinity of lactoferrin as a metal ion carrier: a DFT study. <i>New Journal of Chemistry</i> , 2019, 43, 16374-16384.	2.8	10
43	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.	2.5	10
44	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.	4.0	10
45	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. <i>Food Analytical Methods</i> , 2012, 5, 69-81.	2.6	9
46	Green Nanomaterials for Clean Environment. , 2018, , 1-18.		9
47	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.	3.3	9
48	Determination of Neotame by High-Performance Capillary Electrophoresis Using $\beta$ -cyclodextrin as a Chiral Selector. <i>Analytical Letters</i> , 2014, 47, 2795-2812.	1.8	8
49	Multivariate optimization of differential pulse polarographic catalytic hydrogen wave technique for the determination of nickel(II) in real samples. <i>Arabian Journal of Chemistry</i> , 2017, 10, S2260-S2272.	4.9	8
50	Electrochemical Enzymatic Biosensing of Neotame Supported by Computational Methods. <i>Electroanalysis</i> , 2020, 32, 2669-2680.	2.9	8
51	Handbook of Biopolymers. , 0, , .		8
52	Computational and experimental evaluation of selective substitution of thiolated coumarin derivatives on gold nanoparticles: Surface enhancing Raman scattering and electrochemical studies. <i>Applied Surface Science</i> , 2017, 396, 695-704.	6.1	7
53	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.	5.3	7
54	MWCNTs-Fe <sub>2</sub> O <sub>3</sub> nanoparticle nanohybrid-based highly sensitive electrochemicalsensor for the detection of kaempferol in broccoli samples. <i>Turkish Journal of Chemistry</i> , 2019, 43, 1229-1243.	1.2	7

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55	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.	3.3	7
56	Statistical modeling and interpretation of Sono-assisted adsorption mechanism of Crystal Violet dye on FeTiPbO Nanocomposite. Journal of Molecular Liquids, 2021, 340, 116878.	4.9	7
57	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.	2.7	6
58	Recent Trends in Sensors for Health and Agricultural Applications. , 2019, , 341-355.		6
59	Effective adsorption of Fuchsine dye on FeZnOAC: kinetic, isotherm, double-layer modelling and reusability study. International Journal of Environmental Analytical Chemistry, 2023, 103, 3954-3970.	3.3	6
60	CHAPTER 1. Perspective on Analytical Sciences and Nanotechnology. RSC Detection Science, 0, , 1-34.	0.0	6
61	An ultra-sensitive laccase/polyaziridine-bismuth selenide nanoplates modified GCE for detection of atenolol in pharmaceuticals and urine samples. Bioelectrochemistry, 2022, 147, 108212.	4.6	6
62	Green Nanomaterials for Clean Environment. , 2019, , 63-79.		5
63	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.	4.9	4
64	Modeling of neotame and fructose thermochemistry: Comparison with mono and divalent metal ions by Computational and experimental approach. Scientific Reports, 2019, 9, 18414.	3.3	4
65	Multivariate optimization of field-flow fractionation of nanoscale synthetic amorphous silica in processed foods supported by computational modelling. New Journal of Chemistry, 2020, 44, 17542-17551.	2.8	4
66	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. Journal of Fluorescence, 2021, 31, 625-634.	2.5	4
67	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.	0.3	4
68	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.	0.3	3
69	Cholesterol-Based Enzymatic and Nonenzymatic Sensors. , 2019, , 315-339.		3
70	Nâ€™-(4-(diethylamino)-2-hydroxybenzylidene) isonicotinohydrazide based chemosensor for nanomolar detection of Ni(II) ion. International Journal of Environmental Analytical Chemistry, 0, , 1-17.	3.3	3
71	Double-layer modelling and physicochemical parameters interpretation for chromium adsorption on ZnMnOAC nanocomposite. Inorganic and Nano-Metal Chemistry, 2023, 53, 228-238.	1.6	3
72	Facile and Sensitive Determination of Selenium (IV) in Pharmaceutical Formulations by Flow Injection Spectrophotometry. Journal of Pharmaceutical Sciences, 2008, 97, 1927-1933.	3.3	2

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73	Novel Dithiocarbamates for Electrochemical Detection of Nickel(II) in Environmental Samples. Asian Journal of Chemistry, 2015, 27, 3598-3604.	0.3	2
74	A Mini Review on Surface-Enhanced Raman Scattering based Nanoclusters for Sensing and Imaging Applications. Current Analytical Chemistry, 2022, 18, 430-439.	1.2	2
75	Functionalized Electrochemical Aptasensor for Sensing of Ochratoxin A in Cereals Supported by <i>in Silico</i> Adsorption Studies. ACS Food Science & Technology, 2021, 1, 1849-1860.	2.7	2
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	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
78	Dye Sensitized Solar Cells: Tool to Overcome the Future Energy Crisis. Journal of Environmental Analytical Chemistry, 2014, 02, .	0.3	1
79	Special Properties of Nanomaterials for Chromatography. , 2018, , 37-54.		1
80	Smart Nanodevices for Point-of-Care Applications. Current Analytical Chemistry, 2021, 17, .	1.2	1
81	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. Pure and Applied Chemistry, 2021, 93, 1171-1180.	1.9	1
82	Removal of Targeted Pharmaceuticals and Personal Care Products from Wastewater Treatment Plants using QSAR Model. Current Analytical Chemistry, 2021, 17, 1003-1015.	1.2	1
83	Separation of Sucralose in Food Samples using Amines as Background Electrolyte Supported with DFT Calculations. Current Analytical Chemistry, 2021, 17, 989-1002.	1.2	1
84	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.	1.3	0
85	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.	0.3	0
86	Current trends, achievements, and prospects of smart nanodevices in the global pharma market. , 2020, , 351-393.		0
87	Advanced applications of green materials in biosensor. , 2021, , 33-75.		0
88	Sensitivity Enhancement of Pre-Capillary Chelation Method for the Separation of Metal Ions: Experimental and DFT Study. Current Analytical Chemistry, 2021, 17, 839-848.	1.2	0
89	Molecular Simulation of Chiral Selector-Enantiomer Interactions through Docking: Antimalarial Drugs as Case Study. , 2017, , 363-384.		0
90	Core-Shell Quantum Dots: Sensing Applications. , 2018, , 313-329.		0

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91	Role of Computational Tools in Designing Enzymatic Biosensors for the Detection of Pesticides in Environment. , 2018, , 287-311.		0
92	Recent Trends in Graphene Oxide-Enabled Nanocomposites for Sensing Applications. , 2019, , 1-39.		0