

Sekar C

List of Publications by Year in descending order

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49
papers

1,919
citations

218677

26
h-index

254184

43
g-index

49
all docs

49
docs citations

49
times ranked

2440
citing authors

#	ARTICLE	IF	CITATIONS
1	High-sensitivity humidity sensor based on SnO ₂ nanoparticles synthesized by microwave irradiation method. <i>Materials Science and Engineering C</i> , 2011, 31, 840-844.	7.3	167
2	WO ₃ nanoparticles based direct electrochemical dopamine sensor in the presence of ascorbic acid. <i>Electrochimica Acta</i> , 2015, 167, 294-302.	5.2	131
3	Simultaneous electrochemical determination of epinephrine and uric acid in the presence of ascorbic acid using SnO ₂ /graphene nanocomposite modified glassy carbon electrode. <i>Sensors and Actuators B: Chemical</i> , 2015, 221, 1412-1422.	7.8	99
4	Fabrication of Cr doped SnO ₂ nanoparticles based biosensor for the selective determination of riboflavin in pharmaceuticals. <i>Analyst</i> , The, 2013, 138, 2061.	3.5	98
5	Synthesis of polyethylene glycol (PEG) assisted tungsten oxide (WO ₃) nanoparticles for l-dopa bio-sensing applications. <i>Talanta</i> , 2011, 85, 2166-2174.	5.5	92
6	Electrochemical sensor for simultaneous determination of ascorbic acid, uric acid and folic acid based on Mn-SnO ₂ nanoparticles modified glassy carbon electrode. <i>Journal of Electroanalytical Chemistry</i> , 2016, 770, 23-32.	3.8	86
7	Fabrication of hydrogen peroxide biosensor based on Ni doped SnO ₂ nanoparticles. <i>Biosensors and Bioelectronics</i> , 2012, 36, 41-47.	10.1	85
8	An ultrasensitive electrochemical sensor for simultaneous determination of xanthine, hypoxanthine and uric acid based on Co doped CeO ₂ nanoparticles. <i>Materials Science and Engineering C</i> , 2016, 65, 278-286.	7.3	79
9	Electrochemical detection of mercury using biosynthesized hydroxyapatite nanoparticles modified glassy carbon electrodes without preconcentration. <i>RSC Advances</i> , 2015, 5, 68587-68594.	3.6	66
10	Temperature modulated Cu-MOF based gas sensor with dual selectivity to acetone and NO ₂ at low operating temperatures. <i>Sensors and Actuators B: Chemical</i> , 2021, 329, 129053.	7.8	66
11	Highly sensitive and selective serotonin sensor based on gamma ray irradiated tungsten trioxide nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2017, 238, 667-675.	7.8	64
12	Development of amperometric l-tyrosine sensor based on Fe-doped hydroxyapatite nanoparticles. <i>Materials Science and Engineering C</i> , 2014, 35, 85-91.	7.3	63
13	Development of electrochemical folic acid sensor based on hydroxyapatite nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 137, 58-65.	3.9	48
14	Crystal growth and spectral studies of nonlinear optical $\hat{1}^3$ -glycine single crystal grown from phosphoric acid. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010, 76, 490-495.	3.9	46
15	A novel disposable electrochemical sensor for determination of carbamazepine based on Fe doped SnO ₂ nanoparticles modified screen-printed carbon electrode. <i>Materials Science and Engineering C</i> , 2016, 62, 53-60.	7.3	45
16	EDTA assisted synthesis of hydroxyapatite nanoparticles for electrochemical sensing of uric acid. <i>Materials Science and Engineering C</i> , 2014, 42, 601-607.	7.3	44
17	Effect of gamma irradiation on structural, electrical and gas sensing properties of tungsten oxide nanoparticles. <i>Journal of Alloys and Compounds</i> , 2017, 693, 366-372.	5.5	42
18	Fabrication of folic acid sensor based on the Cu doped SnO ₂ nanoparticles modified glassy carbon electrode. <i>Nanotechnology</i> , 2014, 25, 295501.	2.6	41

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19	Effect of KCl addition on crystal growth and spectral properties of glycine single crystals. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009, 74, 1160-1164.	3.9	40
20	Molybdenum oxide nanoparticles for the sensitive and selective detection of dopamine. <i>Journal of Electroanalytical Chemistry</i> , 2018, 814, 91-96.	3.8	40
21	Growth, spectral, structural and mechanical properties of struvite crystal grown in presence of sodium fluoride. <i>Bulletin of Materials Science</i> , 2012, 35, 701-706.	1.7	36
22	Influence of sodium fluoride on the synthesis of hydroxyapatite by gel method. <i>Journal of Crystal Growth</i> , 2010, 312, 808-816.	1.5	35
23	Synthesis of tungsten oxide (W18O49) nanosheets utilizing EDTA salt by microwave irradiation method. <i>Journal of Alloys and Compounds</i> , 2011, 509, 4788-4792.	5.5	35
24	Voltammetric determination of epinephrine and xanthine based on sodium dodecyl sulphate assisted tungsten trioxide nanoparticles. <i>Electrochimica Acta</i> , 2017, 237, 44-53.	5.2	32
25	Electrochemical sensor for simultaneous determination of epinephrine and norepinephrine based on cetyltrimethylammonium bromide assisted SnO ₂ nanoparticles. <i>Journal of Electroanalytical Chemistry</i> , 2017, 801, 503-510.	3.8	32
26	SnO ₂ -SnS ₂ nanocomposite as electrocatalyst for simultaneous determination of depression biomarkers serotonin and tryptophan. <i>Journal of Electroanalytical Chemistry</i> , 2019, 840, 1-9.	3.8	31
27	A new strategy for simultaneous determination of 4-aminophenol, uric acid and nitrite based on a graphene/hydroxyapatite composite modified glassy carbon electrode. <i>RSC Advances</i> , 2015, 5, 52703-52709.	3.6	24
28	Highly sensitive electrochemical sensor for simultaneous determination of dihydroxybenzene isomers based on Co doped SnO ₂ nanoparticles. <i>RSC Advances</i> , 2016, 6, 68211-68219.	3.6	23
29	MgNi ₂ O ₃ nanoparticles as novel and versatile sensing material for non-enzymatic electrochemical sensing of glucose and conductometric determination of acetone. <i>Journal of Alloys and Compounds</i> , 2020, 817, 152787.	5.5	21
30	Precise and quick detection of ascorbic acid and eugenol in fruits, pharmaceuticals and medicinal herbs using hydroxyapatite-titanium dioxide nanocomposite-based electrode. <i>Food Chemistry</i> , 2022, 382, 132251.	8.2	20
31	Electrochemical determination of purine and pyrimidine bases using copper doped cerium oxide nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2018, 530, 202-211.	9.4	19
32	Effect of fluorides (KF and NaF) on the growth of dicalcium phosphate dihydrate (DCPD) crystal. <i>Materials Chemistry and Physics</i> , 2009, 115, 21-27.	4.0	16
33	Effect of amino acid additives on the growth and physical properties of potassium acid phthalate (KAP) crystals. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 91, 370-374.	3.9	16
34	Low energy nitrogen ion beam implanted tungsten trioxide thin films modified indium tin oxide electrode based acetylcholine sensor. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 84, 11-18.	5.3	16
35	Nicotinamide adenine dinucleotide immobilized tungsten trioxide nanoparticles for simultaneous sensing of norepinephrine, melatonin and nicotine. <i>Biosensors and Bioelectronics</i> , 2019, 143, 111598.	10.1	15
36	Effect of divalent metal ion impurities (Ba ²⁺ , Ca ²⁺ and Mg ²⁺) on the growth, structural and physical properties of KAP crystals. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 103, 187-192.	3.9	13

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37	A novel electrochemical sensor based on Fe-doped MgNi ₂ O ₃ nanoparticles for simultaneous determination of dopamine, uric acid, nicotine and caffeine over very wide linear ranges. <i>Journal of Electroanalytical Chemistry</i> , 2020, 878, 114648.	3.8	13
38	Effect of Zn doping on crystal growth and structure of the pseudo-ladder compound CaCu ₂ O ₃ . <i>Journal of Crystal Growth</i> , 2005, 273, 403-411.	1.5	11
39	Swift heavy nickel ion irradiated ethylene diamine tetra acetic acid-assisted tungsten trioxide thin film for the electrocatalytic detection of guanine. <i>Sensors and Actuators B: Chemical</i> , 2017, 247, 814-822.	7.8	11
40	Highly efficient non-enzymatic electrochemical determination of histamine based on tungsten trioxide nanoparticles for evaluation of food quality. <i>Journal of Applied Electrochemistry</i> , 2021, 51, 1741-1753.	2.9	11
41	Pseudo spin-ladder CaCu ₂ O ₃ nanostructures as potential electrode material for asymmetric supercapacitors. <i>Journal of Energy Storage</i> , 2022, 48, 104051.	8.1	9
42	Sensitivity enhancement in rGO/Mn ₃ O ₄ hybrid nanocomposites: A modified glassy carbon electrode for the simultaneous detection of dopamine and uric acid. <i>Synthetic Metals</i> , 2021, 280, 116859.	3.9	8
43	Effect of trivalent metal ion impurities (Al ³⁺ , Cr ³⁺ and Fe ³⁺) on the growth, structural and physical properties of potassium acid phthalate (KAP) crystals. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 112, 21-26.	3.9	6
44	Electrochemical detection of estrus specific phenolic compound p- cresol to assess the reproductive phase of certain farm animals. <i>Biochemical Engineering Journal</i> , 2017, 126, 78-85.	3.6	6
45	Fast and selective detection of volatile organic compounds using a novel pseudo spin-ladder compound CaCu ₂ O ₃ . <i>Materials Advances</i> , 2020, 1, 2368-2379.	5.4	4
46	Enhancement of electrocatalytic activity in tungsten trioxide nanoparticles by UV-light irradiation: Application for simultaneous detection of tyrosine and tryptophan. <i>Sensors and Actuators A: Physical</i> , 2021, 331, 113011.	4.1	4
47	HAP-TiO ₂ nanocomposites based electrochemical sensor for selective and simultaneous detection of para-aminohippuric acid and uric acid. <i>Microchemical Journal</i> , 2022, 181, 107704.	4.5	4
48	Pressure-induced spin reorientation in La _{1.2} Sr _{1.8} (Mn ^{1-y} Ru ^y) ₂ O ₇ (y=0 and 0.075) single crystals. <i>Journal of Applied Physics</i> , 2009, 106, 103908.	2.5	3
49	Structural Confinement Assisted a Robust Superparamagnetic State in MgNi ₂ O ₃ and MgNi _{1.5} Co _{0.5} O ₃ Nanoparticles at Room Temperature. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018, 31, 3777-3785.	1.8	3