

# Annamalai Senthil Kumar

## List of Publications by Year in descending order

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220  
papers

5,681  
citations

61984

43  
h-index

128289

60  
g-index

224  
all docs

224  
docs citations

224  
times ranked

5443  
citing authors

#	ARTICLE	IF	CITATIONS
1	In-situ scanning electrochemical microscopy interrogation on open-circuit release of toxic Ni <sup>2+</sup> ion from Ni-containing carbon nanomaterials and nickel-hexacyanoferrate formation in physiological pH and its thiol-electrocatalysis relevance. <i>Electrochimica Acta</i> , 2022, 405, 139806.	5.2	8
2	An efficient electrochemical sandwich ELISA for urinary human serum albumin-biomarker based on highly redox-active thionine surface-confined MWCNT/PEDOT.PSS platform. <i>Journal of Electroanalytical Chemistry</i> , 2022, 906, 116018.	3.8	5
3	High-Performance Electrocatalytic Reduction and Sensing of Hazardous Hexavalent Chromium Using a Redox-Active Binol Species-Impregnated Carbon Nanofiber-Modified Electrode. <i>Journal of Physical Chemistry C</i> , 2022, 126, 8296-8311.	3.1	7
4	New Strategy for Improved Conductivity and Redox-Enhanced Supercapacitor Performance of Nickel Metal-Organic Framework. <i>Chemical Engineering Journal Advances</i> , 2022, 11, 100311.	5.2	1
5	A Size-Controlled Graphene Oxide Materials Obtained by One-Step Electrochemical Exfoliation of Carbon Fiber Cloth for Applications to In Situ Gold Nanoparticle Formation and Electrochemical Sensors—A Preliminary Study. <i>Biosensors</i> , 2022, 12, 360.	4.7	4
6	Molecularly wiring of Cytochrome c with carboxylic acid functionalized hydroquinone on MWCNT surface and its bioelectrocatalytic reduction of H <sub>2</sub> O <sub>2</sub> relevance to biomimetic electron-transport and redox signalling. <i>Electrochimica Acta</i> , 2021, 368, 137596.	5.2	13
7	A ternary polymer nanocomposite film composed of green-synthesized graphene quantum dots, polyaniline, polyvinyl butyral and poly(3,4-ethylenedioxythiophene) polystyrene sulfonate for supercapacitor application. <i>Journal of Energy Storage</i> , 2021, 35, 102333.	8.1	22
8	A selective voltammetric pH sensor using graphitized mesoporous carbon/polyaniline hybrid system. <i>Journal of Chemical Sciences</i> , 2021, 133, 1.	1.5	6
9	A prototype device of microliter volume voltammetric pH sensor based on carbazole—quinone redox-probe tethered MWCNT modified three-in-one screen-printed electrode. <i>Scientific Reports</i> , 2021, 11, 13905.	3.3	8
10	A D-A-D molecularly wired charge transfer platform for ultrasensitive detection of dopamine. <i>Sensors and Actuators B: Chemical</i> , 2021, 338, 129829.	7.8	6
11	In-situ electro-organic conversion of lignocellulosic-biomass product-syringaldehyde to a MWCNT surface-confined hydroquinone electrocatalyst for biofuel cell and sensing of ascorbic acid applications. <i>Applied Surface Science</i> , 2021, 562, 150158.	6.1	4
12	Molecular orientation and dynamics of ferricyanide ion-bearing copoly(ionic liquid) modified glassy carbon electrode towards selective mediated oxidation reaction of cysteine versus ascorbic acid: A biomimicking enzyme functionality. <i>Electrochimica Acta</i> , 2021, 395, 139215.	5.2	7
13	In situ electro-organic synthesis of hydroquinone using anisole on MWCNT/Nafion modified electrode surface and its heterogeneous electrocatalytic reduction of toxic Cr(VI) species. <i>RSC Advances</i> , 2021, 11, 4062-4076.	3.6	9
14	CHAPTER 2. Carbon Nanotubes Chemically-modified Screen-printed Electrodes Electrochemical Platforms for Biomedical Applications. <i>RSC Detection Science</i> , 2021, , 27-78.	0.0	0
15	Electrochemical investigation of a tulsi-holy basil-crude plant extract on graphitized mesoporous carbon nanomaterial surface: Selective electrocatalytic activity of surface-confined rosmarinic acid for phenyl hydrazine-pollutant oxidation reaction. <i>Journal of Electroanalytical Chemistry</i> , 2021, 901, 115757.	3.8	0
16	Molecular wiring of glucose oxidase enzyme with Mn polypyridine complex on MWCNT modified electrode surface and its bio-electrocatalytic oxidation and glucose sensing. <i>Methods in Enzymology</i> , 2020, 630, 249-262.	1.0	6
17	Electrochemical Reaction Assisted 2D $\pi$ -Stacking of Benzene on a MWCNT Surface and its Unique Redox and Electrocatalytic Properties. <i>Langmuir</i> , 2020, 36, 9-19.	3.5	7
18	High-valent ruthenium(IV)-oxo complex stabilized mesoporous carbon (graphitized)/nafion modified electrocatalyst for methanol oxidation reaction in neutral pH. <i>Journal of Electroanalytical Chemistry</i> , 2020, 874, 114457.	3.8	7

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19	Highly redox-active organic molecular nanomaterials: Naphthalene and phenanthrene molecular species $\pi$ -stacked MWCNT modified electrodes for oxygen-interference free H <sub>2</sub> O <sub>2</sub> sensing in neutral pH. Journal of Electroanalytical Chemistry, 2020, 878, 114680.	3.8	6
20	High index facets-Ag nanoflower enabled efficient electrochemical detection of lead in blood serum and cosmetics. Journal of Electroanalytical Chemistry, 2020, 878, 114657.	3.8	15
21	A low-cost and miniaturized electrochemical cell for low-sample analyses. Microchemical Journal, 2020, 159, 105591.	4.5	4
22	Vitamin B12-immobilized Graphene Oxide for Efficient Electrocatalytic Carbon Dioxide Reduction Reaction. ChemSusChem, 2020, 13, 5620-5624.	6.8	10
23	$\pi$ -Self-Assembly of a Coronene on Carbon Nanomaterial-Modified Electrode and Its Symmetrical Redox and H <sub>2</sub> O <sub>2</sub> Electro-catalytic Reduction Functionalities. ACS Omega, 2020, 5, 11817-11828.	3.5	11
24	Biomimetic oxidation of benzo[a]pyrene to a quinone metabolite as a cysteine-oxidation mediator on MWCNT-modified electrode surface. Electrochimica Acta, 2020, 350, 136367.	5.2	8
25	Facile Electrochemical Demethylation of 2-Methoxyphenol to Surface-Confined Catechol on the MWCNT and Its Efficient Electrocatalytic Hydrazine Oxidation and Sensing Applications. ACS Omega, 2020, 5, 16208-16219.	3.5	26
26	Electrochemical polymerization of para-chloroaniline as highly redox-active poly(para-chloroaniline) on graphitized mesoporous carbon surface. Electrochimica Acta, 2020, 349, 136376.	5.2	7
27	Electrochemical Detections of Tea Polyphenols: A Review. Electroanalysis, 2020, 32, 2343-2360.	2.9	18
28	AC impedance measurement for the enzyme kinetics of urea-urease system: a model for impedimetric biosensor. Bulletin of Materials Science, 2020, 43, 1.	1.7	3
29	Studies on Controlled Protein Folding versus Direct Electron-Transfer Reaction of Cytochrome C on MWCNT/Nafion Modified Electrode Surface and Its Selective Bioelectrocatalytic H <sub>2</sub> O <sub>2</sub> Reduction and Sensing Function. ACS Symposium Series, 2020, , 185-205.	0.5	5
30	Tuning Poly(ionic liquid) as a Facile Anion (Hexacyanoferrate(III) ion) Exchanger after Being Adsorbed on Graphitic Nanomaterial and Its Versatile Electrocatalytic Oxidation of Ascorbic Acid. Journal of Physical Chemistry C, 2019, 123, 19637-19648.	3.1	8
31	Electrochemical conversion of triamterene-diuretic drug to hydroxybenzene-triamterene intermediate mimicking the pharmacokinetic reaction on multiwalled carbon nanotube surface and its electrocatalytic oxidation function of thiol. Journal of Electroanalytical Chemistry, 2019, 839, 214-223.	3.8	6
32	A cathodically pre-treated low cost screen-printed carbon electrode surface for metal compounds electrocatalyst like hydrogen evolution activity. Journal of Electroanalytical Chemistry, 2019, 839, 59-66.	3.8	5
33	Selective in-situ derivatization of intrinsic nickel to nickel hexacyanoferrate on carbon nanotube and its application for electrochemical sensing of hydrazine. Journal of Electroanalytical Chemistry, 2019, 837, 60-66.	3.8	22
34	Regioselective Electrochemical Oxidation of One of the Identical Benzene Rings of Carbazole to 1,4-Quinone on the MWCNT Surface and Its Electrocatalytic Activity. Journal of Physical Chemistry C, 2019, 123, 30283-30293.	3.1	8
35	Bismuth nanoparticles decorated graphenated carbon nanotubes modified screen-printed electrode for mercury detection. Journal of the Taiwan Institute of Chemical Engineers, 2019, 95, 466-474.	5.3	75
36	Metal and heteroatoms-free carbon soot obtained from atmospheric combustion of naphthalene for sensitive dissolved oxygen reduction reaction and sensing in neutral media. Electrochimica Acta, 2019, 296, 407-417.	5.2	9

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37	Undiluted human whole blood uric acid detection using a graphitized mesoporous carbon modified electrode: a potential tool for clinical point-of-care uric acid diagnosis. <i>Analyst, The</i> , 2018, 143, 1560-1567.	3.5	11
38	Combined effect of inherent residual chloride and bound water content and surface morphology on the intrinsic electron-transfer activity of ruthenium oxide. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 2183-2196.	2.5	1
39	Highly Redox-Active Hematin-Functionalized Carbon Mesoporous Nanomaterial for Electrocatalytic Reduction Applications in Neutral Media. <i>ACS Applied Nano Materials</i> , 2018, 1, 2272-2283.	5.0	13
40	Tea quality testing using 6B pencil lead as an electrochemical sensor. <i>Analytical Methods</i> , 2018, 10, 2327-2336.	2.7	32
41	electrochemical immobilization of [Mn(bpy) <sub>2</sub> (H <sub>2</sub> O) <sub>2</sub> ] <sup>2+</sup> complex on MWCNT modified electrode and its electrocatalytic H <sub>2</sub> O <sub>2</sub> oxidation and reduction reactions: A Mn-Pseudocatalase enzyme bio-mimicking electron-transfer functional model. <i>Journal of Electroanalytical Chemistry</i> , 2018, 812, 10-21.	3.8	10
42	Flow-injection analysis coupled with electrochemical detection of poisonous inorganic arsenic(iii) species using a gold nanoparticle/carbon nanofiber/chitosan chemically modified carbon screen printed electrode in neutral pH solution. <i>Analytical Methods</i> , 2018, 10, 799-808.	2.7	22
43	Bio-electrocatalytic reduction of dissolved oxygen by whole blood chemically modified electrode and its application. <i>Journal of Electroanalytical Chemistry</i> , 2018, 809, 36-43.	3.8	7
44	Influence of relative tool sharpness (RTS) on different ultra-precision machining regimes of Mg alloy. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 96, 3545-3563.	3.0	20
45	A human whole blood chemically modified electrode for the hydrogen peroxide reduction and sensing: Real-time interaction studies of hemoglobin in the red blood cell with hydrogen peroxide. <i>Journal of Electroanalytical Chemistry</i> , 2018, 815, 189-197.	3.8	15
46	A new organic redox species-indole tetraone trapped MWCNT modified electrode prepared by in-situ electrochemical oxidation of indole for a bifunctional electrocatalysis and simultaneous flow injection electroanalysis of hydrazine and hydrogen peroxide. <i>Electrochimica Acta</i> , 2018, 268, 150-162.	5.2	21
47	On the theoretical foundation for the microcutting of calcium fluoride single crystals at elevated temperatures. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2018, 232, 1123-1129.	2.4	12
48	Investigation of machining characterization for wire wear ratio & MRR on pure titanium in WEDM process through response surface methodology. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2018, 232, 108-126.	2.5	15
49	Selective amperometric and flow injection analysis of 1,2-dihydroxy benzene isomer in presence of 1,3- and 1,4-dihydroxy benzene isomers using palladium nanoparticles-chitosan modified ITO electrode. <i>Sensors and Actuators B: Chemical</i> , 2018, 254, 820-826.	7.8	11
50	Morphology and Admittance Spectroscopy of Cellulose Acetate/Graphene Quantum Dots Nanocomposites. <i>International Journal of Nanoscience</i> , 2018, 17, 1760006.	0.7	0
51	Improved Electrical Wiring of Glucose Oxidase Enzyme with an <i>in-Situ</i> Immobilized Mn(1,10-Phenanthroline) <sub>2</sub> Cl <sub>2</sub> -Complex/Multiwalled Carbon Nanotube-Modified Electrode Displaying Superior Performance to Os-Complex for High-Current Sensitivity Bioelectrocatalytic and Biofuel Cell Applications. <i>ACS Applied Bio Materials</i> , 2018, 1, 1758-1767.	4.6	10
52	In Situ Immobilized Sesamol-Quinone/Carbon Nanoblack-Based Electrochemical Redox Platform for Efficient Bioelectrocatalytic and Immunosensor Applications. <i>ACS Omega</i> , 2018, 3, 10823-10835.	3.5	23
53	On the design and application of hybrid electrical discharge and arc machining process for enhancing drilling performance in Inconel 718. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 99, 1825-1837.	3.0	13
54	Axial Coordination Site-Turned Surface Confinement, Electron Transfer, and Bio-Electrocatalytic Applications of a Hemin Complex on Graphitic Carbon Nanomaterial-Modified Electrodes. <i>ACS Omega</i> , 2018, 3, 5435-5444.	3.5	12

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55	In Situ Structural Elucidation and Selective Pb <sup>2+</sup> Ion Recognition of Polydopamine Film Formed by Controlled Electrochemical Oxidation of Dopamine. <i>Langmuir</i> , 2018, 34, 7048-7058.	3.5	17
56	A blood-serum sulfide selective electrochemical sensor based on a 9,10-phenanthrenequinone-tethered graphene oxide modified electrode. <i>Analyst, The</i> , 2018, 143, 3114-3123.	3.5	29
57	A bipotentiostat based separation-free method for simultaneous flow injection analysis of chromium (III) and (VI) species. <i>Electrochimica Acta</i> , 2018, 273, 248-256.	5.2	20
58	A New Strategy for Direct Electrochemical Sensing of a Organophosphorus Pesticide, Triazophos, Using a Coomassie Brilliant-Blue Dye Surface-Confined Carbon-Black-Nanoparticle-Modified Electrode. <i>ACS Applied Nano Materials</i> , 2018, 1, 4110-4119.	5.0	32
59	Selective and low potential electrocatalytic oxidation of NADH using a 2,2-diphenyl-1-picrylhydrazyl immobilized graphene oxide-modified glassy carbon electrode. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 3393-3408.	2.5	7
60	Selective electrochemical polymerization of 1-naphthylamine on carbon electrodes and its pH sensing behavior in non-invasive body fluids useful in clinical applications. <i>Sensors and Actuators B: Chemical</i> , 2018, 275, 31-42.	7.8	15
61	DOUBLE DIFFUSIVE NATURAL CONVECTION IN A SQUARE ENCLOSURE FILLED WITH COPPER-WATER NANOFLUID INDUCED BY OPPOSITE TEMPERATURE AND CONCENTRATION GRADIENTS. <i>Computational Thermal Sciences</i> , 2018, 10, 307-320.	0.9	1
62	Experimental investigation and prediction of optimum process parameters of micro-wire-cut EDM of 2205 DSS. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 93, 187-201.	3.0	32
63	Development of Prussian Blue and Fe(bpy) <sub>3</sub> <sup>2+</sup> hybrid modified pencil graphite electrodes utilizing its intrinsic iron for electroanalytical applications. <i>Journal of Electroanalytical Chemistry</i> , 2017, 786, 145-153.	3.8	20
64	Unexpected Electrochemical Transformation of Aminobenzene Sulfonic Acid Isomers to Respective Surface-Confined Redox Active Quinones Bypassing Polyaniline on a MWCNT Surface. <i>ChemElectroChem</i> , 2017, 4, 701-708.	3.4	2
65	Experimental and numerical simulation of magnetic pulses for joining of dissimilar materials with dissimilar geometry using electromagnetic welding process. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2017, 53, 237-249.	0.6	5
66	An electrochemical in-vitro tool for study of in-vivo relevant biochemical oxidation/reduction of sulfide ion by human whole blood: Evidence for the biological detoxification of hydrogen sulfide. <i>Journal of Electroanalytical Chemistry</i> , 2017, 790, 20-26.	3.8	4
67	Water based homogenous carbon ink modified electrode as an efficient sensor system for simultaneous detection of ascorbic acid, dopamine and uric acid. <i>Electrochimica Acta</i> , 2017, 233, 92-104.	5.2	59
68	An Elegant Analysis of White Spot Syndrome Virus Using a Graphene Oxide/Methylene Blue based Electrochemical Immunosensor Platform. <i>Scientific Reports</i> , 2017, 7, 46169.	3.3	33
69	A bioinspired copper 2,2-bipyridyl complex immobilized MWCNT modified electrode prepared by a new strategy for elegant electrocatalytic reduction and sensing of hydrogen peroxide. <i>Electrochimica Acta</i> , 2017, 240, 522-533.	5.2	30
70	Unexpected co-immobilization of lactoferrin and methylene blue from milk solution on a Nafion/MWCNT modified electrode and application to hydrogen peroxide and lactoferrin biosensing. <i>Electrochimica Acta</i> , 2017, 244, 26-37.	5.2	12
71	Profile evaluation of radial Fresnel lens directly machined on roller molds by rotating-tool diamond turning. <i>Precision Engineering</i> , 2017, 50, 44-52.	3.4	16
72	Reductive cleavage of methyl orange under formation of a redox-active hydroquinone/polyaniline nanocomposite on an electrode modified with MWCNTs, and its application to flow injection analysis of ascorbic acid at low potential and neutral pH value. <i>Mikrochimica Acta</i> , 2017, 184, 3255-3264.	5.0	9

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73	Hybridized ABC-GA optimized fractional order fuzzy pre-compensated FOPID control design for 2-DOF robot manipulator. AEU - International Journal of Electronics and Communications, 2017, 79, 219-233.	2.9	68
74	Electrochemistry of TiO <sub>2</sub> /CdS composite electrodes for supercapacitor applications. Journal of Applied Electrochemistry, 2017, 47, 889-903.	2.9	12
75	Unusual observation of optical property of V <sup>5+</sup> substituted BPO 4 and its tunable redox features. Materials Research Bulletin, 2017, 91, 122-126.	5.2	5
76	Pencil graphite as an elegant electrochemical sensor for separation-free and simultaneous sensing of hypoxanthine, xanthine and uric acid in fish samples. Analytical Methods, 2017, 9, 2265-2274.	2.7	52
77	Evolving an interval type-2 fuzzy PID controller for the redundant robotic manipulator. Expert Systems With Applications, 2017, 73, 161-177.	7.6	94
78	Curcumin-quinone immobilised carbon black modified electrode prepared by in-situ electrochemical oxidation of curcumin-phytonutrient for mediated oxidation and flow injection analysis of sulfide. Journal of Electroanalytical Chemistry, 2017, 804, 116-127.	3.8	31
79	Core-shell heterostructured multiwalled carbon nanotubes@reduced graphene oxide nanoribbons/chitosan, a robust nanobiocomposite for enzymatic biosensing of hydrogen peroxide and nitrite. Scientific Reports, 2017, 7, 11910.	3.3	104
80	Redox behaviour and surface-confinement of electro active species of ginger extract on graphitized mesoporous carbon surface and its copper complex for $H_2O_2$ sensing. Analytical Methods, 2017, 9, 6791-6800.	3.5	12
81	In-situ preparation of Au(111) oriented nanoparticles trapped carbon nanofiber-chitosan modified electrode for enhanced bifunctional electrocatalysis and sensing of formaldehyde and hydrogen peroxide in neutral pH solution. Electrochimica Acta, 2017, 249, 227-240.	5.2	21
82	Electrocatalytic oxidation and flow injection analysis of isoniazid drug using a gold nanoparticles decorated carbon nanofibers-chitosan modified carbon screen printed electrode in neutral pH. Journal of Electroanalytical Chemistry, 2017, 801, 171-178.	3.8	24
83	A network theoretic study of ecological connectivity in Western Himalayas. Ecological Modelling, 2017, 359, 246-257.	2.5	19
84	Selective and low potential electrocatalytic oxidation and sensing of L-cysteine using metal impurity containing carbon black modified electrode. Analytical Methods, 2017, 9, 6791-6800.	2.7	20
85	Investigation of the critical cutting edge radius based on material hardness. International Journal of Advanced Manufacturing Technology, 2017, 88, 3295-3306.	3.0	12
86	A new strategy for simple and quick estimation of redox active nickel impurity in pristine SWCNT as nickel hexacyanoferrate by electrochemical technique. Sensors and Actuators B: Chemical, 2017, 238, 1111-1119.	7.8	11
87	Variation of surface generation mechanisms in ultra-precision machining due to relative tool sharpness (RTS) and material properties. International Journal of Machine Tools and Manufacture, 2017, 115, 15-28.	13.4	74
88	Intrinsic Iron-Containing Multiwalled Carbon Nanotubes as Electro-Fenton Catalyst for the Conversion of Benzene to Redox-Active Surface-Confined Quinones. ChemElectroChem, 2016, 3, 986-992.	3.4	23
89	Influence of Burnishing Axial Interference on Hole Surface Quality in Deep Hole Drilling of Inconel 718. Procedia Manufacturing, 2016, 5, 1295-1307.	1.9	9
90	An electrochemical immunosensor for efficient detection of uropathogenic E. coli based on thionine dye immobilized chitosan/functionalized-MWCNT modified electrode. Biosensors and Bioelectronics, 2016, 82, 71-77.	10.1	60

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91	A hydrophobic coenzyme Q10 stabilized functionalized-MWCNT modified electrode as an efficient functional biomimetic system for the electron-transfer study. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 504, 53-61.	4.7	8
92	Electrochemical immobilization of ellagic acid phytochemical on MWCNT modified glassy carbon electrode surface and its efficient hydrazine electrocatalytic activity in neutral pH. <i>Journal of Electroanalytical Chemistry</i> , 2016, 782, 215-224.	3.8	63
93	Effective boundary conditions and turbulence modeling for the analysis of steam turbine exhaust hood. <i>Applied Thermal Engineering</i> , 2016, 103, 773-780.	6.0	11
94	CAX-technologies for hybrid fast tool/slow slide servo diamond turning of freeform surface. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2016, 230, 1465-1479.	2.4	15
95	Land surface temperature from INSAT-3D imager data: Retrieval and assimilation in NWP model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 6909-6926.	3.3	12
96	Ni Nanoparticles Stabilized by Poly(Ionic Liquids) as Chemoselective and Magnetically Recoverable Catalysts for Transfer Hydrogenation Reactions of Carbonyl Compounds. <i>ChemCatChem</i> , 2016, 8, 1139-1145.	3.7	33
97	Tea quality assessment by analyzing key polyphenolic functional groups using flow injection analysis coupled with a dual electrochemical detector. <i>Sensors and Actuators B: Chemical</i> , 2016, 227, 352-361.	7.8	21
98	An unusual electrochemical oxidation of phenothiazine dye to phenothiazine-bi-1,4-quinone derivative (a donor-acceptor type molecular hybrid) on MWCNT surface and its cysteine electrocatalytic oxidation function. <i>Electrochimica Acta</i> , 2016, 187, 34-45.	5.2	17
99	Electrochemical redox signaling of hemoglobin in human whole blood and its relevance to anemia and thalassemia diagnosis. <i>Analyst</i> , The, 2016, 141, 2145-2149.	3.5	25
100	Selective flow injection detection of zinc phenolsulfonate as oxidized intermediates using a pre-anodized screen printed carbon ring-disk electrode coupled with a dual electrode system. <i>Electrochimica Acta</i> , 2016, 195, 199-207.	5.2	5
101	Enhancement in electrochemical behavior of copper doped MnO <sub>2</sub> electrode. <i>Materials Letters</i> , 2015, 157, 116-122.	2.6	15
102	A preanodized 6B-pencil graphite as an efficient electrochemical sensor for mono-phenolic preservatives (phenol and meta-cresol) in insulin formulations. <i>Analytical Methods</i> , 2015, 7, 1943-1950.	2.7	47
103	The effects of pilot hole geometry on tool-work engagement efficacy in deep hole drilling. <i>Journal of Manufacturing Processes</i> , 2015, 19, 135-141.	5.9	21
104	In Situ Derivatization of an Intrinsic Iron Impurity as a Surface-Confined Iron(II)tris(2,2'-bipyridine) Complex on MWCNT and Its Application to Selective Electrochemical Sensing of DNA's Purine Bases. <i>Langmuir</i> , 2015, 31, 5945-5951.	3.5	24
105	An automated Guilloche machining technique for the fabrication of polygonal Fresnel lens array. <i>Precision Engineering</i> , 2015, 41, 55-62.	3.4	41
106	An Unusual Electrochemical Reductive Cleavage of Azo Dye into Highly Redox Active Copolymeric Aniline Derivatives on a MWCNT Modified Electrode Surface at Neutral pH and Its Electroanalytical Features. <i>Journal of Physical Chemistry C</i> , 2015, 119, 7791-7801.	3.1	11
107	Semi-empirical model on MRR and overcut in WEDM process of pure titanium using multi-objective desirability approach. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2015, 37, 689-721.	1.6	35
108	Comparative Study on Mechanical and Metallurgical Properties of AA6061 Aluminum Alloy Sheet Weld by Pulsed Current and Dual Pulse Gas Metal Arc Welding Processes. <i>Materials and Manufacturing Processes</i> , 2014, 29, 941-947.	4.7	35

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109	Electrochemical Sensing Methodology for Antibioassays. Journal of the Electrochemical Society, 2014, 161, B3061-B3063.	2.9	5
110	MICROSTRUCTURE ANALYSIS AND MATERIAL TRANSFORMATION OF PURE TITANIUM AND TOOL WEAR SURFACE AFTER WIRE ELECTRIC DISCHARGE MACHINING PROCESS. Machining Science and Technology, 2014, 18, 47-77.	2.5	38
111	Quercetin tethered pristine-multiwalled carbon nanotube modified glassy carbon electrode as an efficient electrochemical detector for flow injection analysis of hydrazine in cigarette tobacco samples. Electrochimica Acta, 2014, 135, 1-10.	5.2	32
112	Iron(III) oxide adsorbed multiwalled carbon nanotube modified glassy carbon electrode as a precursor for enhanced Prussian blue formation and selective hydrogen peroxide sensing. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 452, 129-137.	4.7	15
113	A flow injection analysis coupled dual electrochemical detector for selective and simultaneous detection of guanine and adenine. Electrochimica Acta, 2014, 123, 485-493.	5.2	26
114	Exploration of EMI in Buck Boost Converter – A Real Time Approach. Applied Mechanics and Materials, 2014, 573, 78-82.	0.2	0
115	Electrochemical Behavior of the 1,10-Phenanthroline Ligand on a Multiwalled Carbon Nanotube Surface and Its Relevant Electrochemistry for Selective Recognition of Copper Ion and Hydrogen Peroxide Sensing. Langmuir, 2014, 30, 10513-10521.	3.5	72
116	Electrochemical Oxidation of Hazardous Tetracene to Highly Redox Active Anthraquinone and Hydroquinone Derivatives on a Carbon Nanotube Modified Electrode and Its Selective Hydrogen Peroxide Sensing. Electroanalysis, 2014, 26, 2342-2349.	2.9	12
117	In situ stabilization of hydroxylamine via electrochemical immobilization of 4-nitrophenol on GCE/MWCNT electrodes: NADH electrocatalysis at zero potential. Analytical Methods, 2014, 6, 8894-8900.	2.7	5
118	In-situ trapping and confining of highly redox active quinoline quinones on MWCNT modified glassy carbon electrode and its selective electrocatalytic oxidation and sensing of hydrazine. Electrochimica Acta, 2014, 147, 62-72.	5.2	39
119	Optimisation of voltage and frequency regulation in an isolated wind-driven six-phase self-excited induction generator. Journal of the Energy Institute, 2014, 87, 235-245.	5.3	14
120	A novel surface analytical model for cutting linearization error in fast tool/slow slide servo diamond turning. Precision Engineering, 2014, 38, 849-860.	3.4	61
121	Simple Electro-Assisted Immobilization of Ciprofloxacin on Carbon Nanotube Modified Electrodes: Its Selective Hydrogen Peroxide Electrocatalysis. Journal of Nanoscience and Nanotechnology, 2014, 14, 6574-6585.	0.9	3
122	Unusual neutral pH assisted electrochemical polymerization of aniline on a MWCNT modified electrode and its enhanced electro-analytical features. Analyst, The, 2013, 138, 6296.	3.5	22
123	Modeling of the effect of tool edge radius on surface generation in elliptical vibration cutting. International Journal of Advanced Manufacturing Technology, 2013, 65, 35-42.	3.0	49
124	Fast nonlinear model predictive control: Formulation and industrial process applications. Computers and Chemical Engineering, 2013, 51, 55-64.	3.8	61
125	Phosphomolybdic acid nano-aggregates immobilized nafion membrane modified electrode for selective cysteine electrocatalytic oxidation and anti-dermatophytic activity. Electrochimica Acta, 2013, 98, 54-65.	5.2	17
126	A model to predict the critical undeformed chip thickness in vibration-assisted machining of brittle materials. International Journal of Machine Tools and Manufacture, 2013, 69, 57-66.	13.4	97



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