

# 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	An Efficient and Selective Photocatalytic System for the Oxidation of Sulfides to Sulfoxides. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 577-579.	13.8	132
2	Electrocatalytic Oxidation and Sensitive Detection of Cysteine on a Lead Ruthenate Pyrochlore Modified Electrode. <i>Analytical Chemistry</i> , 2001, 73, 1169-1175.	6.5	128
3	Multianalyte sensor for the simultaneous determination of hypoxanthine, xanthine and uric acid based on a preanodized nontronite-coated screen-printed electrode. <i>Sensors and Actuators B: Chemical</i> , 2002, 84, 237-244.	7.8	110
4	Electrocatalytic oxidation and trace detection of amitrole using a Nafion/lead-ruthenium oxide pyrochlore chemically modified electrode. <i>Electrochimica Acta</i> , 2000, 45, 1691-1700.	5.2	107
5	Core-shell heterostructured multiwalled carbon nanotubes@reduced graphene oxide nanoribbons/chitosan, a robust nanobiocomposite for enzymatic biosensing of hydrogen peroxide and nitrite. <i>Scientific Reports</i> , 2017, 7, 11910.	3.3	104
6	A disposable single-use electrochemical sensor for the detection of uric acid in human whole blood. <i>Sensors and Actuators B: Chemical</i> , 2005, 110, 364-369.	7.8	101
7	A model to predict the critical undeformed chip thickness in vibration-assisted machining of brittle materials. <i>International Journal of Machine Tools and Manufacture</i> , 2013, 69, 57-66.	13.4	97
8	An enzymeless electrochemical sensor for the selective determination of creatinine in human urine. <i>Sensors and Actuators B: Chemical</i> , 2006, 115, 473-480.	7.8	96
9	Evolving an interval type-2 fuzzy PID controller for the redundant robotic manipulator. <i>Expert Systems With Applications</i> , 2017, 73, 161-177.	7.6	94
10	Flow injection analysis of hydrogen peroxide on copper-plated screen-printed carbon electrodes. <i>Analyst</i> , 2000, 125, 1633-1637.	3.5	75
11	Improved Electric Wiring of Hemoglobin with Impure-Multiwalled Carbon Nanotube/Nafion Modified Glassy Carbon Electrode and Its Highly Selective Hydrogen Peroxide Biosensing. <i>Journal of Physical Chemistry C</i> , 2012, 116, 23692-23703.	3.1	75
12	Bismuth nanoparticles decorated graphenated carbon nanotubes modified screen-printed electrode for mercury detection. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 95, 466-474.	5.3	75
13	Variation of surface generation mechanisms in ultra-precision machining due to relative tool sharpness (RTS) and material properties. <i>International Journal of Machine Tools and Manufacture</i> , 2017, 115, 15-28.	13.4	74
14	Copper-palladium alloy nanoparticle plated electrodes for the electrocatalytic determination of hydrazine. <i>Analytica Chimica Acta</i> , 2005, 554, 66-73.	5.4	73
15	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. <i>Langmuir</i> , 2014, 30, 10513-10521.	3.5	72
16	A sensitive voltammetric method for the determination of parathion insecticide. <i>Analytica Chimica Acta</i> , 1999, 396, 39-44.	5.4	70
17	Hybridized ABC-GA optimized fractional order fuzzy pre-compensated FOPID control design for 2-DOF robot manipulator. <i>AEU - International Journal of Electronics and Communications</i> , 2017, 79, 219-233.	2.9	68
18	Selective immobilization of hydroquinone on carbon nanotube modified electrode via phenol electro-oxidation method and its hydrazine electro-catalysis and <i>Escherichia coli</i> antibacterial activity. <i>Electrochimica Acta</i> , 2012, 62, 207-217.	5.2	63

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19	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
20	A highly stable and sensitive chemically modified screen-printed electrode for sulfide analysis. <i>Analytica Chimica Acta</i> , 2006, 556, 145-150.	5.4	61
21	Fast nonlinear model predictive control: Formulation and industrial process applications. <i>Computers and Chemical Engineering</i> , 2013, 51, 55-64.	3.8	61
22	A novel surface analytical model for cutting linearization error in fast tool/slow slide servo diamond turning. <i>Precision Engineering</i> , 2014, 38, 849-860.	3.4	61
23	Amino acid analysis using disposable copper nanoparticle plated electrodes. <i>Analyst, The</i> , 2004, 129, 841.	3.5	60
24	Highly stable and redox active nano copper species stabilized functionalized-multiwalled carbon nanotube/chitosan modified electrode for efficient hydrogen peroxide detection. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012, 395, 207-216.	4.7	60
25	An electrochemical immunosensor for efficient detection of uropathogenic E. coli based on thionine dye immobilized chitosan/functionalized-MWCNT modified electrode. <i>Biosensors and Bioelectronics</i> , 2016, 82, 71-77.	10.1	60
26	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
27	Simultaneous detection of guanine and adenine in DNA and meat samples using graphitized mesoporous carbon modified electrode. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 583-590.	2.5	58
28	Selective Detection of o-Diphenols on Copper-Plated Screen-Printed Electrodes. <i>Analytical Chemistry</i> , 2002, 74, 1202-1206.	6.5	56
29	Ru(DMSO) <sub>4</sub> Cl <sub>2</sub> nano-aggregated Nafion membrane modified electrode for simultaneous electrochemical detection of hypoxanthine, xanthine and uric acid. <i>Journal of Electroanalytical Chemistry</i> , 2010, 642, 135-142.	3.8	56
30	Graphitized mesoporous carbon modified glassy carbon electrode for selective sensing of xanthine, hypoxanthine and uric acid. <i>Analytical Methods</i> , 2012, 4, 2162.	2.7	56
31	Amperometric determination of ascorbic acid at a ferricyanide-doped Tosflex-modified electrode. <i>Electrochemistry Communications</i> , 2000, 2, 782-785.	4.7	54
32	An Iron Impurity in Multiwalled Carbon Nanotube Complexes with Chitosan that Biomimics the Heme- $\alpha$ -Peroxidase Function. <i>Chemistry - A European Journal</i> , 2013, 19, 17103-17112.	3.3	54
33	Simple adsorption of anthraquinone on carbon nanotube modified electrode and its efficient electrochemical behaviors. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 384, 597-604.	4.7	53
34	A Mimicking Enzyme Analogue for Chemical Sensors. <i>Accounts of Chemical Research</i> , 2001, 34, 772-780.	15.6	52
35	Pencil graphite as an elegant electrochemical sensor for separation-free and simultaneous sensing of hypoxanthine, xanthine and uric acid in fish samples. <i>Analytical Methods</i> , 2017, 9, 2265-2274.	2.7	52
36	Voltammetric behavior and trace determination of Pb <sup>2+</sup> at a mercury-free screen-printed silver electrode. <i>Analytica Chimica Acta</i> , 2002, 464, 229-235.	5.4	50

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37	Selective covalent immobilization of catechol on activated carbon electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2010, 641, 131-135.	3.8	49
38	Modeling of the effect of tool edge radius on surface generation in elliptical vibration cutting. <i>International Journal of Advanced Manufacturing Technology</i> , 2013, 65, 35-42.	3.0	49
39	A Glucose Biosensor Employing a Stable Artificial Peroxidase Based on Ruthenium Purple Anchored Cinder. <i>Analytical Chemistry</i> , 2003, 75, 2703-2709.	6.5	48
40	Flow injection analysis of zinc pyrithione in hair care products on a cobalt phthalocyanine modified screen-printed carbon electrode. <i>Talanta</i> , 2004, 62, 912-917.	5.5	48
41	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
42	In situ precipitation of Nickel-hexacyanoferrate within multi-walled carbon nanotube modified electrode and its selective hydrazine electrocatalysis in physiological pH. <i>Journal of Electroanalytical Chemistry</i> , 2011, 654, 85-95.	3.8	46
43	A dual electrochemical sensor for nitrite and nitric oxide. <i>Analyst, The</i> , 2000, 125, 2169-2172.	3.5	45
44	Peer Reviewed: The Prospects of Clay Mineral Electrodes. <i>Analytical Chemistry</i> , 2004, 76, 205 A-211 A.	6.5	44
45	Electrochemical-Assisted Encapsulation of Catechol on a Multiwalled Carbon Nanotube Modified Electrode. <i>Langmuir</i> , 2010, 26, 6874-6877.	3.5	41
46	An automated Guilloche machining technique for the fabrication of polygonal Fresnel lens array. <i>Precision Engineering</i> , 2015, 41, 55-62.	3.4	41
47	Electrochemical Behavior of Stable Cinder/Prussian Blue Analogue and Its Mediated Nitrite Oxidation. <i>Electroanalysis</i> , 2001, 13, 1171-1178.	2.9	39
48	Flow Injection Analysis of an Ultratrace Amount of Arsenite Using a Prussian Blue-Modified Screen-Printed Electrode. <i>Analytical Chemistry</i> , 2003, 75, 6017-6022.	6.5	39
49	Electrochemical Conversion of Unreactive Pyrene to Highly Redox-Active 1,2-Quinone Derivatives on a Carbon Nanotube-Modified Gold Electrode Surface and Its Selective Hydrogen Peroxide Sensing. <i>Langmuir</i> , 2013, 29, 10617-10623.	3.5	39
50	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. <i>Electrochimica Acta</i> , 2014, 147, 62-72.	5.2	39
51	MICROSTRUCTURE ANALYSIS AND MATERIAL TRANSFORMATION OF PURE TITANIUM AND TOOL WEAR SURFACE AFTER WIRE ELECTRIC DISCHARGE MACHINING PROCESS. <i>Machining Science and Technology</i> , 2014, 18, 47-77.	2.5	38
52	Photoelectrochemical Oxygen Sensor Using Copper-Plated Screen-Printed Carbon Electrodes. <i>Analytical Chemistry</i> , 2002, 74, 6126-6130.	6.5	37
53	Highly selective immobilization of amoxicillin antibiotic on carbon nanotube modified electrodes and its antibacterial activity. <i>Journal of Materials Chemistry</i> , 2010, 20, 10152.	6.7	36
54	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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55	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
56	Development of an Enzymeless/Mediatorless Glucose Sensor Using Ruthenium Oxide-Prussian Blue Combinative Analogue. <i>Electroanalysis</i> , 2005, 17, 210-222.	2.9	34
57	Electrocatalytic Reduction and Determination of Dissolved Oxygen at a Preanodized Screen-Printed Carbon Electrode Modified with Palladium Nanoparticles. <i>Electroanalysis</i> , 2006, 18, 64-69.	2.9	34
58	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
59	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
60	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. <i>Electrochimica Acta</i> , 2014, 135, 1-10.	5.2	32
61	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
62	Tea quality testing using 6B pencil lead as an electrochemical sensor. <i>Analytical Methods</i> , 2018, 10, 2327-2336.	2.7	32
63	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
64	Experimental Investigation on Material Transfer Mechanism in WEDM of Pure Titanium (Grade-2). <i>Advances in Materials Science and Engineering</i> , 2013, 2013, 1-20.	1.8	31
65	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. <i>Journal of Electroanalytical Chemistry</i> , 2017, 804, 116-127.	3.8	31
66	Electrocatalytic Oxidation of Hypoxanthine on a Nafion/Lead-Ruthenium Oxide Pyrochlore Modified Electrode. <i>Electroanalysis</i> , 2000, 12, 280-286.	2.9	30
67	Studies of electrochemical behaviour of RuO <sub>2</sub> -PVC film electrodes: dependence on oxide preparation temperature. <i>Journal of Solid State Electrochemistry</i> , 2000, 4, 408-416.	2.5	30
68	An Efficient and Selective Photocatalytic System for the Oxidation of Sulfides to Sulfoxides. <i>Angewandte Chemie</i> , 2003, 115, 597-599.	2.0	30
69	Precise blood lead analysis using a combined internal standard and standard addition approach with disposable screen-printed electrodes. <i>Analytical Biochemistry</i> , 2005, 338, 278-283.	2.4	30
70	Simple method for simultaneous detection of uric acid, xanthine and hypoxanthine in fish samples using a glassy carbon electrode modified with as commercially received multiwalled carbon nanotubes. <i>Analytical Methods</i> , 2011, 3, 2088.	2.7	30
71	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
72	Room Temperature Aerobic Oxidation of Amines by a Nanocrystalline Ruthenium Oxide Pyrochlore Nafion Composite Catalyst. <i>Chemistry - A European Journal</i> , 2012, 18, 6147-6151.	3.3	29

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73	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
74	Electrochemical impedance study and sensitive voltammetric determination of Pb(II) at electrochemically activated glassy carbon electrodes. <i>Analyst, The</i> , 2000, 125, 1139-1146.	3.5	27
75	Electrochemical behavior of lead(II)-ruthenium oxide pyrochlore catalyst: redox characteristics in comparison with that of ruthenium dioxide. <i>Journal of Molecular Catalysis A</i> , 2001, 165, 177-188.	4.8	27
76	An Electrochemical Cell Coupled with Disposable Screen-Printed Electrodes for Use in Flow Injection Analysis. <i>Analytical Sciences</i> , 2006, 22, 35-38.	1.6	27
77	Ruthenium-functionalized nickel hydroxide catalyst for highly efficient alcohol oxidations in the presence of molecular oxygen. <i>Chemical Communications</i> , 2009, , 1912.	4.1	26
78	Facile Electrochemical Oxidation of Polyaromatic Hydrocarbons to Surface-Confined Redox-Active Quinone Species on a Multiwalled Carbon Nanotube Surface. <i>Chemistry - A European Journal</i> , 2013, 19, 2236-2241.	3.3	26
79	A flow injection analysis coupled dual electrochemical detector for selective and simultaneous detection of guanine and adenine. <i>Electrochimica Acta</i> , 2014, 123, 485-493.	5.2	26
80	Facile Electrochemical Demethylation of 2-Methoxyphenol to Surface-Confined Catechol on the MWCNT and Its Efficient Electrocatalytic Hydrazine Oxidation and Sensing Applications. <i>ACS Omega</i> , 2020, 5, 16208-16219.	3.5	26
81	Rapid simultaneous electrochemical sensing of tea polyphenols. <i>Analytical Methods</i> , 2012, 4, 2922.	2.7	25
82	Electrochemical redox signaling of hemoglobin in human whole blood and its relevance to anemia and thalassemia diagnosis. <i>Analyst, The</i> , 2016, 141, 2145-2149.	3.5	25
83	An Investigation into Machining Characteristics of Commercially Pure Titanium (Grade-2) Using CNC WEDM. <i>Applied Mechanics and Materials</i> , 0, 159, 56-68.	0.2	24
84	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
85	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. <i>Journal of Electroanalytical Chemistry</i> , 2017, 801, 171-178.	3.8	24
86	Organic Redox Probes for the Key Oxidation States in Mixed Valence Ruthenium Oxide/Cyanometallate (Ruthenium Prussian Blue Analogue) Catalysts. <i>Electroanalysis</i> , 2004, 16, 1211-1220.	2.9	23
87	Enzyme-less and selective electrochemical sensing of catechol and dopamine using ferrocene bound Nafion membrane modified electrode. <i>Analytical Methods</i> , 2010, 2, 1962.	2.7	23
88	Intrinsic Iron-Containing Multiwalled Carbon Nanotubes as Electro-Fenton Catalyst for the Conversion of Benzene to Redox-Active Surface-Confined Quinones. <i>ChemElectroChem</i> , 2016, 3, 986-992.	3.4	23
89	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
90	Determination of lead(II) on a copper/mercury-plated screen-printed electrode. <i>Analytica Chimica Acta</i> , 2000, 421, 189-197.	5.4	22

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91	Disposable clay-coated screen-printed electrode for amitrole analysis. <i>Analytica Chimica Acta</i> , 2001, 449, 95-102.	5.4	22
92	Unusual neutral pH assisted electrochemical polymerization of aniline on a MWCNT modified electrode and its enhanced electro-analytical features. <i>Analyst, The</i> , 2013, 138, 6296.	3.5	22
93	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
94	Selective in-situ derivatization of intrinsic nickel to nickel hexacyanoferrate on carbon nanotube and its application for electrochemical sensing of hydrazine. <i>Journal of Electroanalytical Chemistry</i> , 2019, 837, 60-66.	3.8	22
95	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
96	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
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	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. <i>Electrochimica Acta</i> , 2017, 249, 227-240.	5.2	21
99	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
100	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
101	Selective and low potential electrocatalytic oxidation and sensing of L-cysteine using metal impurity containing carbon black modified electrode. <i>Analytical Methods</i> , 2017, 9, 6791-6800.	2.7	20
102	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
103	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
104	Unusual Redox Catalysis in a Ruthenium Oxide-Prussian Blue Combined Material. <i>ChemPhysChem</i> , 2004, 5, 1227-1231.	2.1	19
105	A network theoretic study of ecological connectivity in Western Himalayas. <i>Ecological Modelling</i> , 2017, 359, 246-257.	2.5	19
106	Tetracycline Immobilization as Hydroquinone Derivative at Dissolved Oxygen Reduction Potential on Multiwalled Carbon Nanotube. <i>Journal of the Electrochemical Society</i> , 2012, 159, G137-G145.	2.9	18
107	Electrochemical Detections of Tea Polyphenols: A Review. <i>Electroanalysis</i> , 2020, 32, 2343-2360.	2.9	18
108	Phosphomolybdic acid nano-aggregates immobilized nafion membrane modified electrode for selective cysteine electrocatalytic oxidation and anti-dermatophytic activity. <i>Electrochimica Acta</i> , 2013, 98, 54-65.	5.2	17



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109	Selective flow injection analysis of iodate in iodized table salts by riboflavin immobilized multiwalled carbon nanotubes chemically modified electrode. <i>Electrochimica Acta</i> , 2013, 109, 59-66.	5.2	17
110	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
111	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
112	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
113	Electrochemical Formation of Prussian Blue in Natural Iron-Intercalated Clay and Cinder Matrixes. <i>Electroanalysis</i> , 2000, 12, 542-545.	2.9	15
114	Catalysis and characterization of a rugged lead ruthenate pyrochlore membrane catalyst. <i>Journal of Molecular Catalysis A</i> , 2005, 233, 111-120.	4.8	15
115	Iron(III) oxide adsorbed multiwalled carbon nanotube modified glassy carbon electrode as a precursor for enhanced Prussian blue formation and selective hydrogen peroxide sensing. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 452, 129-137.	4.7	15
116	Enhancement in electrochemical behavior of copper doped MnO <sub>2</sub> electrode. <i>Materials Letters</i> , 2015, 157, 116-122.	2.6	15
117	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
118	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
119	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
120	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
121	High index facets-Ag nanoflower enabled efficient electrochemical detection of lead in blood serum and cosmetics. <i>Journal of Electroanalytical Chemistry</i> , 2020, 878, 114657.	3.8	15
122	Selective Electrochemical Recognition of the 1-Naphthol Isomer and In Situ Immobilization of Naphthoquinones for Tunable Electrocatalysis. <i>Chemistry - an Asian Journal</i> , 2013, 8, 896-901.	3.3	14
123	A novel method for layered tool path generation in the fast tool servo diamond turning of noncircular microstructural surfaces. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2013, 227, 210-219.	2.4	14
124	Optimisation of voltage and frequency regulation in an isolated wind-driven six-phase self-excited induction generator. <i>Journal of the Energy Institute</i> , 2014, 87, 235-245.	5.3	14
125	Potentiometric Stripping Analysis of Traces of Thallium(III) at a Poly(4-Vinylpyridine)/Mercury Film Electrode. <i>Electroanalysis</i> , 2001, 13, 321-324.	2.9	13
126	Potential scan rate dependence of underpotential and bulk depositions of lead on screen-printed silver electrodes. <i>Electrochimica Acta</i> , 2001, 47, 899-904.	5.2	13



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127	Barrel Plating Rhodium Electrode: Application to Flow Injection Analysis of Hydrazine. <i>Electroanalysis</i> , 2005, 17, 1245-1250.	2.9	13
128	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
129	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
130	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
131	Determination of tranexamic acid in cosmetic products by high-performance liquid chromatography coupled with barrel plating nickel electrode. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2008, 48, 1446-1450.	2.8	12
132	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. <i>Electroanalysis</i> , 2014, 26, 2342-2349.	2.9	12
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