

# B E Kumara Swamy

## List of Publications by Year in descending order

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92  
papers

2,630  
citations

172386

29  
h-index

223716

46  
g-index

94  
all docs

94  
docs citations

94  
times ranked

2301  
citing authors

#	ARTICLE	IF	CITATIONS
1	CuO nanoparticle sensor for the electrochemical determination of dopamine. <i>Electrochimica Acta</i> , 2012, 61, 78-86.	2.6	220
2	Voltammetric resolution of dopamine in the presence of ascorbic acid and uric acid at poly (calmagite) film coated carbon paste electrode. <i>Electrochimica Acta</i> , 2010, 55, 7166-7174.	2.6	134
3	Multi-walled carbon nanotube modified carbon paste electrode as a sensor for the amperometric detection of l-tryptophan in biological samples. <i>Journal of Colloid and Interface Science</i> , 2013, 402, 223-229.	5.0	91
4	Acetylcholinesterase based biosensor for monitoring of Malathion and Acephate in food samples: A voltammetric study. <i>Food Chemistry</i> , 2014, 142, 188-196.	4.2	72
5	Multi-walled carbon nanotube modified carbon paste electrode as an electrochemical sensor for the determination of epinephrine in the presence of ascorbic acid and uric acid. <i>Materials Science and Engineering C</i> , 2013, 33, 3294-3302.	3.8	71
6	Sol-gel immobilized biosensor for the detection of organophosphorous pesticides: A voltammetric method. <i>Bioelectrochemistry</i> , 2012, 83, 19-24.	2.4	70
7	Multi-walled carbon nanotube/poly(glycine) modified carbon paste electrode for the determination of dopamine in biological fluids and pharmaceuticals. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 110, 458-465.	2.5	69
8	Simultaneous electro-generation and electro-deposition of copper oxide nanoparticles on glassy carbon electrode and its sensor application. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	63
9	Development of AChE biosensor for the determination of methyl parathion and monocrotophos in water and fruit samples: A cyclic voltammetric study. <i>Journal of Electroanalytical Chemistry</i> , 2012, 665, 76-82.	1.9	55
10	Pretreated/Carbon paste electrode based voltammetric sensors for the detection of dopamine in presence of ascorbic acid and uric acid. <i>Journal of Electroanalytical Chemistry</i> , 2013, 703, 1-8.	1.9	55
11	Simultaneous electrochemical determination of dopamine and ascorbic acid using poly (l-serine) modified carbon paste electrode. <i>Journal of Molecular Liquids</i> , 2011, 160, 193-199.	2.3	52
12	Electrochemical behavior of poly (naphthol green B)-film modified carbon paste electrode and its application for the determination of dopamine and uric acid. <i>Journal of Electroanalytical Chemistry</i> , 2012, 667, 66-75.	1.9	51
13	Voltammetric resolution of catechol and hydroquinone at eosin Y film modified carbon paste electrode. <i>Journal of Molecular Liquids</i> , 2016, 220, 208-215.	2.3	48
14	Preparation of alanine and tyrosine functionalized graphene oxide nanoflakes and their modified carbon paste electrodes for the determination of dopamine. <i>Applied Surface Science</i> , 2017, 399, 411-419.	3.1	48
15	Electropolymerisation of l-arginine at carbon paste electrode and its application to the detection of dopamine, ascorbic and uric acid. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 88, 413-418.	2.5	46
16	Simultaneous electrochemical determination of epinephrine and uric acid at 1-butyl-4-methyl-pyridinium tetrafluoroborate ionic liquid modified carbon paste electrode: A voltammetric study. <i>Journal of Molecular Liquids</i> , 2012, 165, 168-172.	2.3	45
17	Analytical Fukui and cyclic voltammetric studies on ferrocene modified carbon electrodes and effect of Triton X-100 by immobilization method. <i>Electrochimica Acta</i> , 2017, 258, 1025-1034.	2.6	45
18	Poly (alanine)/NaOH/ MoS <sub>2</sub> /MWCNTs modified carbon paste electrode for simultaneous detection of dopamine, ascorbic acid, serotonin and guanine. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 196, 111299.	2.5	45

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19	Synthesis, characterization and electrochemical studies of azo dyes derived from barbituric acid. <i>Dyes and Pigments</i> , 2017, 136, 742-753.	2.0	44
20	Voltammetric determination of catechol and hydroquinone at poly(murexide) modified glassy carbon electrode. <i>Materials Science and Engineering C</i> , 2019, 98, 746-752.	3.8	44
21	Poly(Patton and Reeder's reagent) modified carbon paste electrode for the sensitive detection of acetaminophen in biological fluid and pharmaceutical formulations. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 101, 91-96.	2.5	43
22	Poly(Rhodamine B) modified carbon paste electrode for the selective detection of dopamine. <i>Journal of Molecular Liquids</i> , 2012, 174, 70-75.	2.3	42
23	Electrocatalytic oxidation of tyrosine at poly(threonine)-film modified carbon paste electrode and its voltammetric determination in real samples. <i>Journal of Molecular Liquids</i> , 2012, 172, 130-135.	2.3	39
24	Theoretical and cyclic voltammetric studies on electrocatalysis of benzethonium chloride at carbon paste electrode for detection of dopamine in presence of ascorbic acid. <i>Journal of Molecular Liquids</i> , 2017, 240, 395-401.	2.3	38
25	Electrochemical deposition of 1-butyl-4-methyl-pyridinium tetrafluoroborate ionic liquid on carbon paste electrode and its application for the simultaneous determination of dopamine, ascorbic acid and uric acid. <i>Journal of Molecular Liquids</i> , 2011, 158, 13-17.	2.3	36
26	One step facile synthesis of silver nanoparticles for the simultaneous electrochemical determination of dopamine and ascorbic acid. <i>Journal of Molecular Liquids</i> , 2016, 214, 298-305.	2.3	36
27	Simultaneous determination of epinephrine, ascorbic acid and folic acid using TX-100 modified carbon paste electrode: A cyclic voltammetric study. <i>Journal of Molecular Liquids</i> , 2017, 231, 379-385.	2.3	36
28	Simultaneous cyclic voltammetric determination of norepinephrine, ascorbic acid and uric acid using TX-100 modified carbon paste electrode. <i>Analytical Methods</i> , 2012, 4, 849.	1.3	31
29	Clay modified carbon paste electrode for the voltammetric detection of dopamine in presence of ascorbic acid. <i>Journal of Molecular Liquids</i> , 2012, 172, 53-58.	2.3	30
30	Potential in vitro antioxidant and protective effects of <i>Mesua ferrea</i> Linn. bark extracts on induced oxidative damage. <i>Industrial Crops and Products</i> , 2013, 47, 186-198.	2.5	29
31	Sodium do-decyl benzene sulfate modified carbon paste electrode as an electrochemical sensor for the simultaneous analysis of dopamine, ascorbic acid and uric acid: A voltammetric study. <i>Journal of Molecular Liquids</i> , 2013, 177, 32-39.	2.3	29
32	CTAB immobilized carbon paste electrode for the determination of mesalazine: A cyclic voltammetric method. <i>Sensing and Bio-Sensing Research</i> , 2017, 15, 53-59.	2.2	29
33	Poly(crystal violet) modified pencil graphite electrode sensor for the electroanalysis of catechol in the presence of hydroquinone. <i>Sensing and Bio-Sensing Research</i> , 2018, 20, 47-54.	2.2	29
34	Electrochemical selective determination of dopamine at TX-100 modified carbon paste electrode: A voltammetric study. <i>Journal of Molecular Liquids</i> , 2012, 168, 80-86.	2.3	28
35	Quantum chemical and electrochemical studies of lysine modified carbon paste electrode surfaces for sensing dopamine. <i>New Journal of Chemistry</i> , 2018, 42, 4501-4506.	1.4	28
36	A reliable electrochemical sensor for detection of catechol and hydroquinone at MgO/GO modified carbon paste electrode. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 19728-19740.	1.1	28

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37	Synthesis of MgFe <sub>2</sub> O <sub>4</sub> nanoparticles and MgFe <sub>2</sub> O <sub>4</sub> nanoparticles/CPE for electrochemical investigation of dopamine. <i>Analytical Methods</i> , 2011, 3, 2792.	1.3	27
38	Role of heat on the development of electrochemical sensors on bare and modified Co <sub>3</sub> O <sub>4</sub> /CuO composite nanopowder carbon paste electrodes. <i>Materials Science and Engineering C</i> , 2016, 58, 142-152.	3.8	27
39	Synthesis of ZnO and its surfactant based electrode for the simultaneous detection of dopamine and ascorbic acid. <i>Analytical Methods</i> , 2013, 5, 735-740.	1.3	26
40	ZnO and ZnO/polyglycine modified carbon paste electrode for electrochemical investigation of dopamine. <i>Analytical Methods</i> , 2012, 4, 2778.	1.3	25
41	Mobilized lipase enzymatic biosensor for the determination of Chlorfenvinphos and Malathion in contaminated water samples: A voltammetric study. <i>Journal of Molecular Liquids</i> , 2014, 198, 181-186.	2.3	25
42	Electrochemical investigations of lipase enzyme activity inhibition by methyl parathion pesticide: Voltammetric studies. <i>Journal of Molecular Liquids</i> , 2013, 180, 26-30.	2.3	24
43	Synthesis and characterization of carbon nanoparticles and their modified carbon paste electrode for the determination of dopamine. <i>Journal of Electroanalytical Chemistry</i> , 2014, 720-721, 1-8.	1.9	24
44	Poly (rhodamine B) sensor for norepinephrine and paracetamol: a voltammetric study. <i>Ionics</i> , 2018, 24, 3631-3640.	1.2	24
45	Fabrication of voltammetric efficient sensor for catechol, hydroquinone and resorcinol at MgO modified pre-treated carbon paste electrode. <i>Materials Chemistry and Physics</i> , 2020, 252, 123231.	2.0	24
46	Selective determination of dopamine in presence of ascorbic acid and uric acid at hydroxy double salt/surfactant film modified carbon paste electrode. <i>Journal of Electroanalytical Chemistry</i> , 2012, 674, 57-64.	1.9	23
47	Poly(amaranth) film based sensor for resolution of dopamine in the presence of uric acid: A voltammetric study. <i>Chinese Chemical Letters</i> , 2010, 21, 1490-1492.	4.8	21
48	Nanorod TiO <sub>2</sub> sensor for dopamine: a voltammetric study. <i>New Journal of Chemistry</i> , 2017, 41, 11817-11827.	1.4	21
49	Electrochemical sensing of catechol in presence of hydroquinone using a carbon paste electrode amplified with poly (vanillin). <i>Chemical Data Collections</i> , 2020, 28, 100392.	1.1	20
50	Co <sub>3</sub> O <sub>4</sub> /CuO composite nanopowder/sodium dodecyl sulphate modified carbon paste electrode based voltammetric sensors for detection of dopamine. <i>International Journal of Nanotechnology</i> , 2017, 14, 930.	0.1	18
51	Analyzing electron transfer properties of ferrocene in gasoline by cyclic voltammetry and theoretical methods. <i>Microchemical Journal</i> , 2020, 158, 105116.	2.3	18
52	Effect of RGO-Y <sub>2</sub> O <sub>3</sub> and RGO-Y <sub>2</sub> O <sub>3</sub> :Cr <sup>3+</sup> nanocomposite sensor for dopamine. <i>Scientific Reports</i> , 2021, 11, 9372.	1.6	18
53	An efficient electrochemical sensing of hazardous catechol and hydroquinone at direct green 6 decorated carbon paste electrode. <i>Scientific Reports</i> , 2021, 11, 15064.	1.6	18
54	A Facile Synthesis of Bromo-Substituted Benzofuran Containing Thiazolidinone Nucleus Bridged with Quinoline Derivatives: Potent Analgesic and Antimicrobial Agents. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2009, 185, 110-116.	0.8	17

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55	Electrocatalytic oxidation of dopamine at murexide and TX-100 modified carbon paste electrode: A cyclic voltammetric study. <i>Journal of Molecular Liquids</i> , 2012, 172, 119-124.	2.3	17
56	Spectral and electrochemical investigation of octanitro substituted metal phthalocyanines. <i>Dyes and Pigments</i> , 2009, 80, 1-5.	2.0	16
57	Low cost, trouble-free disposable pencil graphite electrode sensor for the simultaneous detection of hydroquinone and catechol. <i>Materials Chemistry and Physics</i> , 2022, 278, 125663.	2.0	16
58	Voltammetric determination of dopamine in the presence of ascorbic acid and uric acid at sodium dodecyl sulphate/reduced graphene oxide modified carbon paste electrode. <i>Journal of Molecular Liquids</i> , 2015, 211, 705-711.	2.3	15
59	Terephthalic acid derived ligand-stabilized palladium nanocomposite catalyst for Heck coupling reaction: without surface-modified heterogeneous catalyst. <i>Applied Organometallic Chemistry</i> , 2017, 31, e3549.	1.7	15
60	Cyclic Voltammetric and Quantum Chemical Studies of a Poly(methionine) Modified Carbon Paste Electrode for Simultaneous Detection of Dopamine and Uric Acid. <i>Chemosensors</i> , 2019, 7, 24.	1.8	15
61	Electrochemical detection of bisphenol A in presence of catechol and hydroquinone at copper oxide modified carbon paste electrode. <i>Materials Chemistry and Physics</i> , 2022, 289, 126443.	2.0	14
62	Catalytic performance study of nano-cobalt: a catalyst for complement to the Heck coupling reaction. <i>Journal of Porous Materials</i> , 2017, 24, 1095-1103.	1.3	13
63	Electrochemical Determination of Hematoxylin by Pretreated ZnO Nanoflakes Modified Carbon Paste Electrode in the Absence and Presence of Eosin Y. <i>Journal of the Electrochemical Society</i> , 2020, 167, 087511.	1.3	13
64	Poly (red DSBR)/Al-ZnO modified carbon paste electrode sensor for dopamine: a voltammetric study. <i>Scientific Reports</i> , 2021, 11, 14310.	1.6	13
65	Poly (naphthol green B) modified carbon paste electrode for the analysis of paracetamol and norepinephrine. <i>Ionics</i> , 2019, 25, 1845-1855.	1.2	12
66	A simple sensing approach for the determination of dopamine by poly (Yellow PX4R) pencil graphite electrode. <i>Chemical Data Collections</i> , 2020, 27, 100366.	1.1	12
67	Electrochemical Investigation of Catechol at Poly(niacinamide) Modified Carbon Paste Electrode: A Voltammetric Study. <i>Advances in Physical Chemistry</i> , 2016, 2016, 1-8.	2.0	11
68	Catalytic approach green synthesis, characterization and electrochemical studies of heterocyclic azo dye derived from 5-amino-1,3,4-thiadiazole-2-thiol. <i>Journal of Molecular Liquids</i> , 2018, 271, 976-983.	2.3	11
69	Poly (Naphthol Green B) film based sensor for resolution of dopamine in the presence of uric acid: A voltammetric study. <i>Analytical Methods</i> , 2011, 3, 2068.	1.3	10
70	Electrochemical Synthesis of Titanium Nano Particles at Carbon Paste Electrodes and Its Applications as an Electrochemical Sensor for the Determination of Acetaminophen in Paracetamol Tablets. <i>Soft Nanoscience Letters</i> , 2013, 03, 20-22.	0.8	10
71	Oxidation of 3-(3,4-dihydroxy phenyl)-L-alanine (levodopa) and 3-(3,4-dihydroxy) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 107 Td (p mechanistic study. <i>International Journal of Chemical Kinetics</i> , 2001, 33, 449-457.	1.0	9
72	Voltammetric Detection of Dopamine in Presence of Ascorbic Acid and Uric Acid at Poly (Xylenol) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6 1-8.	2.4	9

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73	Carbon Paste Electrode Modified with Boric Acid and TX-100 used for Electrochemical Determination of Dopamine. <i>Materials Today: Proceedings</i> , 2018, 5, 22368-22375.	0.9	9
74	Niacin Film Coated Carbon Paste Electrode Sensor for the Determination of Epinephrine in Presence of Uric Acid: A Cyclic Voltammetric Study. <i>Analytical Chemistry Letters</i> , 2017, 7, 748-764.	0.4	8
75	Electrochemical Sensor for the Determination of Paracetamol at Carbamazepine Film Coated Carbon Paste Electrode. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018, 232, 345-358.	1.4	8
76	Synthesis of Ni <sup>2+</sup> ion doped ZnO@MWCNTs nanocomposites using an <i>in situ</i> sol-gel method: an ultra sensitive non-enzymatic uric acid sensing electrode material. <i>RSC Advances</i> , 2020, 10, 36949-36961.	1.7	8
77	Pretreated carbon paste electrode sensor for Adrenaline: A voltammetric study. <i>Chemical Data Collections</i> , 2020, 28, 100388.	1.1	8
78	Studies on radioprotective and antiviral activities of some bischalcone derivatives. <i>Medicinal Chemistry Research</i> , 2012, 21, 2671-2679.	1.1	7
79	Simple flame etching of pencil electrode for dopamine oxidation in presence of ascorbic acid and uric acid. <i>International Journal of Nanotechnology</i> , 2017, 14, 739.	0.1	7
80	Mechanical, thermal and fire retardation behaviours of nanoclay/vinylester nanocomposites. <i>Frontiers of Materials Science</i> , 2011, 5, 401-411.	1.1	6
81	Selective detection of dopamine and ascorbic acid at purified carbon nanotubes/Tween-20 modified carbon paste electrode. <i>Materials Today: Proceedings</i> , 2017, 4, 11991-11998.	0.9	5
82	Coomassie brilliant blue G 250 modified carbon paste electrode sensor for the voltammetric detection of dihydroxybenzene isomers. <i>Scientific Reports</i> , 2021, 11, 15933.	1.6	5
83	Poly (Orange CD) sensor for paracetamol in presence of folic acid and dopamine. <i>Scientific Reports</i> , 2021, 11, 22332.	1.6	5
84	Electrochemical studies of dopamine in presence of uric acid and hydroquinone at TiO <sub>2</sub> nanoparticles: a voltammetric study. <i>Ionics</i> , 2018, 24, 1803-1811.	1.2	4
85	Fabrication and theoretical analysis of sodium alpha-olefin sulfonate-anchored carbon paste electrode for the simultaneous detection of adrenaline and paracetamol. <i>Journal of Applied Electrochemistry</i> , 2022, 52, 697.	1.5	4
86	Evaluation of performance characteristics of nano TiO <sub>2</sub> and TiO <sub>2</sub> -ZnO composite for DSSC applications and electrochemical determination of potassium ferrocyanide using cyclic voltammetry. <i>Materials Research Express</i> , 2021, 8, 125004.	0.8	4
87	Identification and Characterization of Asulam Impurities in Self Made Bulk Batch Synthesis and Quantification by RP-HPLC Method. <i>Journal of AOAC INTERNATIONAL</i> , 2018, 101, 1448-1460.	0.7	3
88	Development of electrochemical sensor for adrenaline at poly (allura red) modified carbon paste electrode: A voltammetric study. <i>Chemical Data Collections</i> , 2020, 28, 100447.	1.1	3
89	Effect of graphite oxide and exfoliated graphite oxide as a modifier for the voltametric determination of dopamine in presence of uric acid and folic acid. <i>Scientific Reports</i> , 2021, 11, 24040.	1.6	3
90	Organomodified Clay and its Influence on Thermal and Fire Behaviors of Clay/Fire Retardant/Poly Vinyl Ester Composites. <i>Key Engineering Materials</i> , 2015, 659, 468-473.	0.4	2

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91	Multi-function NiFe <sub>2</sub> O <sub>4</sub> Nanoparticles for Sodium-ion Battery, Sensing and photocatalysis. New Journal of Chemistry, 0, , .	1.4	1
92	4-Nitro-2-phenoxyaniline. Acta Crystallographica Section E: Structure Reports Online, 2010, 66, o1255-o1255.	0.2	0