

Tse-Wei Chen

List of Publications by Year in descending order

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95
papers

3,401
citations

117571

34
h-index

175177

52
g-index

95
all docs

95
docs citations

95
times ranked

3551
citing authors

#	ARTICLE	IF	CITATIONS
1	Methyl parathion detection in vegetables and fruits using silver@graphene nanoribbons nanocomposite modified screen printed electrode. <i>Scientific Reports</i> , 2017, 7, 46471.	1.6	152
2	A novel Laccase Biosensor based on Laccase immobilized Graphene-Cellulose Microfiber Composite modified Screen-Printed Carbon Electrode for Sensitive Determination of Catechol. <i>Scientific Reports</i> , 2017, 7, 41214.	1.6	110
3	Innovative Strategy Based on a Novel Carbon-Black β -Cyclodextrin Nanocomposite for the Simultaneous Determination of the Anticancer Drug Flutamide and the Environmental Pollutant 4-Nitrophenol. <i>Analytical Chemistry</i> , 2018, 90, 6283-6291.	3.2	107
4	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.	1.6	104
5	A review of the advanced developments of electrochemical sensors for the detection of toxic and bioactive molecules. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 3418-3439.	3.0	91
6	Synthesis and characterization of polypyrrole decorated graphene β -cyclodextrin composite for low level electrochemical detection of mercury (II) in water. <i>Sensors and Actuators B: Chemical</i> , 2017, 243, 888-894.	4.0	87
7	Simplistic synthesis of ultrafine CoMnO ₃ nanosheets: An excellent electrocatalyst for highly sensitive detection of toxic 4-nitrophenol in environmental water samples. <i>Journal of Hazardous Materials</i> , 2019, 361, 123-133.	6.5	86
8	A facile graphene oxide based sensor for electrochemical detection of prostate anti-cancer (anti-testosterone) drug flutamide in biological samples. <i>RSC Advances</i> , 2017, 7, 25702-25709.	1.7	80
9	A new electrochemical sensor for highly sensitive and selective detection of nitrite in food samples based on sonochemical synthesized Calcium Ferrite (CaFe ₂ O ₄) clusters modified screen printed carbon electrode. <i>Journal of Colloid and Interface Science</i> , 2018, 524, 417-426.	5.0	80
10	Detection of Pesticide Residues (Fenitrothion) in Fruit Samples Based On Niobium Carbide@Molybdenum Nanocomposite: An Electrocatalytic Approach. <i>Analytica Chimica Acta</i> , 2018, 1030, 52-60.	2.6	80
11	Selective Colorimetric Detection of Nitrite in Water using Chitosan Stabilized Gold Nanoparticles Decorated Reduced Graphene oxide. <i>Scientific Reports</i> , 2017, 7, 14182.	1.6	73
12	Two-dimensional metal chalcogenides analogous NiSe ₂ nanosheets and its efficient electrocatalytic performance towards glucose sensing. <i>Journal of Colloid and Interface Science</i> , 2017, 507, 378-385.	5.0	69
13	Sonochemical synthesis of molybdenum oxide (MoO ₃) microspheres anchored graphitic carbon nitride (g-C ₃ N ₄) ultrathin sheets for enhanced electrochemical sensing of Furazolidone. <i>Ultrasonics Sonochemistry</i> , 2019, 50, 96-104.	3.8	69
14	A non-enzymatic amperometric hydrogen peroxide sensor based on iron nanoparticles decorated reduced graphene oxide nanocomposite. <i>Journal of Colloid and Interface Science</i> , 2017, 487, 370-377.	5.0	66
15	A core-shell molybdenum nanoparticles entrapped f-MWCNTs hybrid nanostructured material based non-enzymatic biosensor for electrochemical detection of dopamine neurotransmitter in biological samples. <i>Scientific Reports</i> , 2019, 9, 13075.	1.6	62
16	Construction of Lanthanum Vanadate/Functionalized Boron Nitride Nanocomposite: The Electrochemical Sensor for Monitoring of Furazolidone. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 2784-2794.	3.2	61
17	Voltammetric sensing of sulfamethoxazole using a glassy carbon electrode modified with a graphitic carbon nitride and zinc oxide nanocomposite. <i>Mikrochimica Acta</i> , 2018, 185, 396.	2.5	60
18	Rational Confinement of Yttrium Vanadate within Three-Dimensional Graphene Aerogel: Electrochemical Analysis of Monoamine Neurotransmitter (Dopamine). <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 10987-10995.	4.0	58

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19	Sonochemical synthesis of bismuth(III) oxide decorated reduced graphene oxide nanocomposite for detection of hormone (epinephrine) in human and rat serum. <i>Ultrasonics Sonochemistry</i> , 2019, 51, 103-110.	3.8	56
20	Transition-Metal-Doped Molybdenum Diselenides with Defects and Abundant Active Sites for Efficient Performances of Enzymatic Biofuel Cell and Supercapacitor Applications. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 18483-18493.	4.0	54
21	Rational Design of Cu@Cu ₂ O Nanospheres Anchored B, N Co-doped Mesoporous Carbon: A Sustainable Electrocatalyst To Assay Eminent Neurotransmitters Acetylcholine and Dopamine. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 5669-5680.	3.2	54
22	Highly sensitive determination of non-steroidal anti-inflammatory drug nimesulide using electrochemically reduced graphene oxide nanoribbons. <i>RSC Advances</i> , 2017, 7, 33043-33051.	1.7	53
23	Highly sensitive fluorogenic sensing of L-Cysteine in live cells using gelatin-stabilized gold nanoparticles decorated graphene nanosheets. <i>Sensors and Actuators B: Chemical</i> , 2018, 259, 339-346.	4.0	50
24	Hierarchically structured CuFe ₂ O ₄ ND@RGO composite for the detection of oxidative stress biomarker in biological fluids. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 944-950.	3.0	49
25	Investigation on the Electrocatalytic Determination and Photocatalytic Degradation of Neurotoxicity Drug Cloquinol by Sn(MoO ₄) ₂ Nanoplates. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 26582-26592.	4.0	45
26	Determination of 8-hydroxy-2'-deoxyguanosine oxidative stress biomarker using dysprosium oxide nanoparticles@reduced graphene oxide. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 2885-2892.	3.0	45
27	Hydrothermal synthesis of silver molybdate/reduced graphene oxide hybrid composite: An efficient electrode material for the electrochemical detection of tryptophan in food and biological samples. <i>Composites Part B: Engineering</i> , 2019, 169, 249-257.	5.9	45
28	Ex-situ decoration of graphene oxide with palladium nanoparticles for the highly sensitive and selective electrochemical determination of chloramphenicol in food and biological samples. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 89, 26-38.	2.7	44
29	Facile Synthesis of Spinel-Type Copper Cobaltite Nanoplates for Enhanced Electrocatalytic Detection of Acetylcholine. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 7642-7651.	3.2	42
30	One-Pot Sustainable Synthesis of Ce ₂ S ₃ /Gum Arabic Carbon Flower Nanocomposites for the Detection of Insecticide Imidacloprid. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 4980-4988.	4.0	42
31	One pot electrochemical synthesis of poly(melamine) entrapped gold nanoparticles composite for sensitive and low level detection of catechol. <i>Journal of Colloid and Interface Science</i> , 2017, 496, 364-370.	5.0	41
32	Construction of strontium phosphate/graphitic-carbon nitride: A flexible and disposable strip for acetaminophen detection. <i>Journal of Hazardous Materials</i> , 2021, 410, 124542.	6.5	38
33	Facile synthesis of mesoporous WS ₂ nanorods decorated N-doped RGO network modified electrode as portable electrochemical sensing platform for sensitive detection of toxic antibiotic in biological and pharmaceutical samples. <i>Ultrasonics Sonochemistry</i> , 2019, 56, 430-436.	3.8	37
34	Sonochemical synthesis of perovskite-type barium titanate nanoparticles decorated on reduced graphene oxide nanosheets as an effective electrode material for the rapid determination of ractopamine in meat samples. <i>Ultrasonics Sonochemistry</i> , 2019, 56, 318-326.	3.8	36
35	Selective Electroanalysis of Ascorbic Acid Using a Nickel Hexacyanoferrate and Poly(3,4-ethylenedioxythiophene) Hybrid Film Modified Electrode. <i>Electroanalysis</i> , 2010, 22, 1655-1662.	1.5	34
36	Rational construction of novel rose petals-like yttrium molybdate nanosheets: A Janus catalyst for the detection and degradation of cardioselective β -blocker agent acebutolol. <i>Chemical Engineering Journal</i> , 2019, 359, 1472-1485.	6.6	33

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37	Highly selective electrochemical detection of antipsychotic drug chlorpromazine in drug and human urine samples based on peas-like strontium molybdate as an electrocatalyst. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 643-655.	3.0	32
38	A relative study on sonochemically synthesized mesoporous WS ₂ nanorods & hydrothermally synthesized WS ₂ nanoballs towards electrochemical sensing of psychoactive drug (Clonazepam). <i>Ultrasonics Sonochemistry</i> , 2019, 54, 79-89.	3.8	32
39	Facile synthesis and characterization of erbium oxide (Er ₂ O ₃) nanospheres embellished on reduced graphene oxide nanomatrix for trace-level detection of a hazardous pollutant causing Methemoglobinaemia. <i>Ultrasonics Sonochemistry</i> , 2019, 56, 422-429.	3.8	32
40	Amperometric sensing of nitrite at nanomolar concentrations by using carboxylated multiwalled carbon nanotubes modified with titanium nitride nanoparticles. <i>Mikrochimica Acta</i> , 2019, 186, 8.	2.5	32
41	Two-Dimensional Copper Tungstate Nanosheets: Application toward the Electrochemical Detection of Mesalazine. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 18279-18287.	3.2	31
42	Developing green sonochemical approaches towards the synthesis of highly integrated and interconnected carbon nanofiber decorated with Sm ₂ O ₃ nanoparticles and their use in the electrochemical detection of toxic 4-nitrophenol. <i>Ultrasonics Sonochemistry</i> , 2019, 58, 104595.	3.8	31
43	A nanocomposite consisting of cuprous oxide supported on graphitic carbon nitride nanosheets for non-enzymatic electrochemical sensing of 8-hydroxy-2- ϵ -deoxyguanosine. <i>Mikrochimica Acta</i> , 2020, 187, 459.	2.5	31
44	One-step synthesis of reduced graphene oxide sheathed zinc oxide nanoclusters for the trace level detection of bisphenol A in tissue papers. <i>Ecotoxicology and Environmental Safety</i> , 2018, 161, 699-705.	2.9	30
45	A simple sonochemical assisted synthesis of NiMoO ₄ /chitosan nanocomposite for electrochemical sensing of amlodipine in pharmaceutical and serum samples. <i>Ultrasonics Sonochemistry</i> , 2020, 64, 104827.	3.8	30
46	Facile synthesis of copper ferrite nanoparticles with chitosan composite for high-performance electrochemical sensor. <i>Ultrasonics Sonochemistry</i> , 2020, 63, 104902.	3.8	30
47	Voltammetric determination of catechol based on a glassy carbon electrode modified with a composite consisting of graphene oxide and polymelamine. <i>Mikrochimica Acta</i> , 2017, 184, 1051-1057.	2.5	29
48	Determination of the antioxidant propyl gallate in meat by using a screen-printed electrode modified with CoSe ₂ nanoparticles and reduced graphene oxide. <i>Mikrochimica Acta</i> , 2018, 185, 520.	2.5	28
49	Facile sonochemical synthesis of porous and hierarchical manganese(III) oxide tiny nanostructures for super sensitive electrocatalytic detection of antibiotic (chloramphenicol) in fresh milk. <i>Ultrasonics Sonochemistry</i> , 2019, 58, 104648.	3.8	28
50	A simple architecture of cellulose microfiber/reduced graphene oxide nanocomposite for the electrochemical determination of nitrobenzene in sewage water. <i>Cellulose</i> , 2018, 25, 2381-2391.	2.4	26
51	Sonochemical synthesis and fabrication of honeycomb like zirconium dioxide with chitosan modified electrode for sensitive electrochemical determination of anti-tuberculosis (TB) drug. <i>Ultrasonics Sonochemistry</i> , 2019, 59, 104718.	3.8	26
52	Facile synthesis of copper(II) oxide nanospheres covered on functionalized multiwalled carbon nanotubes modified electrode as rapid electrochemical sensing platform for super-sensitive detection of antibiotic. <i>Ultrasonics Sonochemistry</i> , 2019, 58, 104596.	3.8	25
53	Reversibly switchable ruthenium hybrid thermo-responsive electrocatalyst-based voltammetric sensor for sensitive detection of sulfamethazine in milk samples. <i>Sensors and Actuators B: Chemical</i> , 2020, 316, 128103.	4.0	25
54	An eco-friendly low-temperature synthetic approach towards micro-pebble-structured GO@SrTiO ₃ nanocomposites for the detection of 2,4,6-trichlorophenol in environmental samples. <i>Mikrochimica Acta</i> , 2021, 188, 72.	2.5	25

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55	Evaluating Ternary Metal Oxide (TMO) core-shell nanocomposites for the rapid determination of the anti-neoplastic drug Chlorambucil (Leukeran [®]) by electrochemical approaches. <i>Materials Science and Engineering C</i> , 2019, 103, 109724.	3.8	24
56	Electrocatalytic evaluation of graphene oxide warped tetragonal t-lanthanum vanadate (GO@LaVO ₄) nanocomposites for the voltammetric detection of antifungal and antiprotozoal drug (clioquinol). <i>Mikrochimica Acta</i> , 2021, 188, 102.	2.5	23
57	One-pot sonochemical synthesis of Bi ₂ WO ₆ nanospheres with multilayer reduced graphene nanosheets modified electrode as rapid electrochemical sensing platform for high sensitive detection of oxidative stress biomarker in biological sample. <i>Ultrasonics Sonochemistry</i> , 2019, 57, 233-241.	3.8	22
58	A sonochemical assisted synthesis of hollow sphere structured tin (IV) oxide on graphene oxide sheets for the low-level detection of environmental pollutant mercury in biological samples and foodstuffs. <i>Ultrasonics Sonochemistry</i> , 2020, 67, 105164.	3.8	22
59	Sonochemical synthesis and fabrication of perovskite type calcium titanate interfacial nanostructure supported on graphene oxide sheets as a highly efficient electrocatalyst for electrochemical detection of chemotherapeutic drug. <i>Ultrasonics Sonochemistry</i> , 2020, 69, 105242.	3.8	22
60	Enzyme-free electrocatalytic sensing of hydrogen peroxide using a glassy carbon electrode modified with cobalt nanoparticle-decorated tungsten carbide. <i>Mikrochimica Acta</i> , 2019, 186, 265.	2.5	21
61	Evaluating an effective electrocatalyst for the rapid determination of triptan drug (Maxalt [®]) from (mono and binary) transition metal (Co, Mn, CoMn, MnCo) oxides via electrochemical approaches. <i>New Journal of Chemistry</i> , 2020, 44, 605-613.	1.4	21
62	Facile, low-temperature synthesis of tungsten carbide (WC) flakes for the sensitive and selective electrocatalytic detection of dopamine in biological samples. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 2024-2034.	3.0	20
63	Ultrasound-assisted synthesis of β -MnS (alabandite) nanoparticles decorated reduced graphene oxide hybrids: Enhanced electrocatalyst for electrochemical detection of Parkinson's disease biomarker. <i>Ultrasonics Sonochemistry</i> , 2019, 56, 378-385.	3.8	20
64	Facile sonochemical synthesis of rutile-type titanium dioxide microspheres decorated graphene oxide composite for efficient electrochemical sensor. <i>Ultrasonics Sonochemistry</i> , 2020, 62, 104872.	3.8	19
65	Tailoring of bismuth vanadate impregnated on molybdenum/graphene oxide sheets for sensitive detection of environmental pollutants 2, 4, 6 trichlorophenol. <i>Ecotoxicology and Environmental Safety</i> , 2021, 211, 111934.	2.9	19
66	Facile synthesis of single-crystalline Fe-doped copper vanadate nanoparticles for the voltammetric monitoring of lethal hazardous fungicide carbendazim. <i>Mikrochimica Acta</i> , 2021, 188, 277.	2.5	19
67	Nickel, copper and manganese hexacyanoferrate with poly(3,4-ethylenedioxythiophene) hybrid film modified electrode for selectively determination of ascorbic acid. <i>Russian Journal of Electrochemistry</i> , 2012, 48, 291-301.	0.3	18
68	A Green Approach to the Synthesis of Well-Structured Prussian Blue Cubes for the Effective Electrocatalytic Reduction of Antiprotozoal Agent Coccidiostat Nicarbazin. <i>Electroanalysis</i> , 2018, 30, 1669-1677.	1.5	18
69	Synthesis, characterization and catalytic performance of nanostructured dysprosium molybdate catalyst for selective biomolecule detection in biological and pharmaceutical samples. <i>Journal of Materials Chemistry B</i> , 2019, 7, 5065-5077.	2.9	18
70	A sensitive electrochemical determination of chemotherapy agent using graphitic carbon nitride covered vanadium oxide nanocomposite; sonochemical approach. <i>Ultrasonics Sonochemistry</i> , 2019, 58, 104664.	3.8	18
71	Synthesis and characterizations of iron antimony oxide nanoparticles and its applications in electrochemical detection of carbendazim in apple juice and paddy water samples. <i>Food Chemistry</i> , 2022, 373, 131569.	4.2	18
72	A feasible sonochemical approach to synthesize CuO@CeO ₂ nanomaterial and their enhanced non-enzymatic sensor performance towards neurotransmitter. <i>Ultrasonics Sonochemistry</i> , 2020, 63, 104903.	3.8	17

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73	Economically applicable Ti ₂ O ₃ decorated m-aminophenol-formaldehyde resin microspheres for dye-sensitized solar cells (DSSCs). <i>Journal of Colloid and Interface Science</i> , 2017, 494, 82-91.	5.0	15
74	Hydrothermal Synthesis of Cr ₂ Se ₃ Hexagons for Sensitive and Low-level Detection of 4-Nitrophenol in Water. <i>Scientific Reports</i> , 2018, 8, 4839.	1.6	15
75	Improving sensitivity of antimicrobial drug nitrofurazone detection in food and biological samples based on nanostructured anatase-titania sheathed reduced graphene oxide. <i>Nanotechnology</i> , 2020, 31, 445502.	1.3	15
76	Electrochemical sensing of anti-inflammatory agent in paramedical sample based on FeMoSe ₂ modified SPCE: Comparison of various preparation methods and morphological effects. <i>Analytica Chimica Acta</i> , 2019, 1083, 88-100.	2.6	14
77	A novel nanocomposite with superior electrocatalytic activity: A magnetic property based ZnFe ₂ O ₄ nanocubes embellished with reduced graphene oxide by facile ultrasonic approach. <i>Ultrasonics Sonochemistry</i> , 2019, 57, 116-124.	3.8	14
78	High-performance SERS detection of pesticides using BiOCl-BiOBr@Pt/Au hybrid nanostructures on styrofoams as 3D functional substrate. <i>Mikrochimica Acta</i> , 2020, 187, 580.	2.5	14
79	3D Honey-Comb like Nitrogen Self-Doped Porous Carbon Networks for High-Performance Electrochemical Detection of Antibiotic Drug Furazolidone. <i>Journal of the Electrochemical Society</i> , 2021, 168, 047503.	1.3	14
80	Synthesis and characterization of manganese diselenide nanoparticles (MnSeNPs): Determination of capsaicin by using MnSeNP-modified glassy carbon electrode. <i>Mikrochimica Acta</i> , 2018, 185, 313.	2.5	13
81	Rapid sonochemical synthesis of silver nano-leaves encapsulated on iron pyrite nanocomposite: An excellent catalytic application in the electrochemical detection of herbicide (Acifluorfen). <i>Ultrasonics Sonochemistry</i> , 2019, 54, 90-98.	3.8	13
82	Platelet-structured strontium titanate perovskite decorated on graphene oxide as a nanocatalyst for electrochemical determination of neurotransmitter dopamine. <i>New Journal of Chemistry</i> , 2020, 44, 18431-18441.	1.4	13
83	A novel approach to iron oxide separation from e-waste and bisphenol A detection in thermal paper receipts using recovered nanocomposites. <i>RSC Advances</i> , 2018, 8, 39870-39878.	1.7	12
84	Non-enzymatic sensing of hydrogen peroxide using a glassy carbon electrode modified with a composite consisting of chitosan-encapsulated graphite and platinum nanoparticles. <i>Mikrochimica Acta</i> , 2016, 183, 2861-2869.	2.5	11
85	Sonochemical synthesis and fabrication of neodymium sesquioxide entrapped with graphene oxide based hierarchical nanocomposite for highly sensitive electrochemical sensor of anti-cancer (raloxifene) drug. <i>Ultrasonics Sonochemistry</i> , 2020, 64, 104717.	3.8	11
86	Synergistic formation of samarium oxide/graphene nanocomposite: A functional electrocatalyst for carbendazim detection. <i>Chemosphere</i> , 2022, 307, 135711.	4.2	8
87	Sonochemical synthesis of novel thermo-responsive polymer and tungsten dioxide composite for the temperature-controlled reversible electrochemical detection of β -Blocker metoprolol. <i>Ultrasonics Sonochemistry</i> , 2020, 64, 105008.	3.8	6
88	Selective electrochemical detection of antidepressant drug imipramine in blood serum and urine samples using an antimony telluride-graphite nanofiber electrode. <i>Mikrochimica Acta</i> , 2021, 188, 60.	2.5	6
89	Simultaneous electrochemical determination of nitroaniline and flutamide based on iron vanadate and lanthanum vanadate nanocomposite modified electrode by voltammetric technique. <i>Journal of Electroanalytical Chemistry</i> , 2021, 901, 115772.	1.9	6
90	Elucidating π - π interaction-induced extension effect in sandwich phthalocyaninato compounds. <i>RSC Advances</i> , 2020, 10, 317-322.	1.7	5

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91	Sonochemical approach to the synthesis of metal tungstate/nafion composite with electrocatalytic properties and its electrochemical sensing performance. <i>Ultrasonics Sonochemistry</i> , 2020, 66, 104901.	3.8	5
92	A disposable electrochemical sensor based on iron molybdate for the analysis of dopamine in biological samples. <i>New Journal of Chemistry</i> , 0, , .	1.4	5
93	Temperature abetted synthesis of novel magnesium stannate nanoparticles assisted for nanomolar level detection of hazardous flavonoid in biological samples. <i>Food Chemistry</i> , 2021, 361, 130162.	4.2	5
94	Manganese Molybdenum Oxide Micro Rods Adorned Porous Carbon Hybrid Electrocatalyst for Electrochemical Determination of Furazolidone in Environmental Fluids. <i>Catalysts</i> , 2021, 11, 1397.	1.6	4
95	Engineering Layered Nanostructures of Two-Dimensional Transition Metal Dichalcogenides with CeO ₂ for Nano-Level Detection of Promethazine Hydrochloride. <i>Journal of the Electrochemical Society</i> , 2021, 168, 077503.	1.3	2