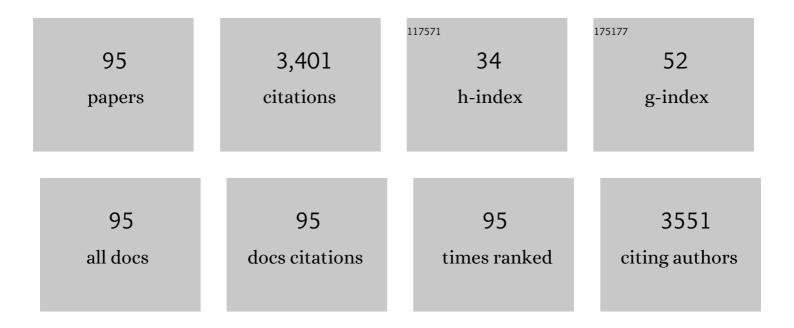
Tse-Wei Chen

List of Publications by Year in descending order

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TSE-MELCHEN

#	Article	IF	CITATIONS
1	Synthesis and characterizations of iron antimony oxide nanoparticles and its applications in electrochemical detection of carbendazim in apple juice and paddy water samples. Food Chemistry, 2022, 373, 131569.	4.2	18
2	Synergistic formation of samarium oxide/graphene nanocomposite: A functional electrocatalyst for carbendazim detection. Chemosphere, 2022, 307, 135711.	4.2	8
3	Construction of strontium phosphate/graphitic-carbon nitride: A flexible and disposable strip for acetaminophen detection. Journal of Hazardous Materials, 2021, 410, 124542.	6.5	38
4	Selective electrochemical detection of antidepressant drug imipramine in blood serum and urine samples using an antimony telluride-graphite nanofiber electrode. Mikrochimica Acta, 2021, 188, 60.	2.5	6
5	Rational Confinement of Yttrium Vanadate within Three-Dimensional Graphene Aerogel: Electrochemical Analysis of Monoamine Neurotransmitter (Dopamine). ACS Applied Materials & Interfaces, 2021, 13, 10987-10995.	4.0	58
6	An eco-friendly low-temperature synthetic approach towards micro-pebble-structured GO@SrTiO3 nanocomposites for the detection of 2,4,6-trichlorophenol in environmental samples. Mikrochimica Acta, 2021, 188, 72.	2.5	25
7	Construction of Lanthanum Vanadate/Functionalized Boron Nitride Nanocomposite: The Electrochemical Sensor for Monitoring of Furazolidone. ACS Sustainable Chemistry and Engineering, 2021, 9, 2784-2794.	3.2	61
8	Electrocatalytic evaluation of graphene oxide warped tetragonal t-lanthanum vanadate (GO@LaVO4) nanocomposites for the voltammetric detection of antifungal and antiprotozoal drug (clioquinol). Mikrochimica Acta, 2021, 188, 102.	2.5	23
9	Tailoring of bismuth vanadate impregnated on molybdenum/graphene oxide sheets for sensitive detection of environmental pollutants 2, 4, 6 trichlorophenol. Ecotoxicology and Environmental Safety, 2021, 211, 111934.	2.9	19
10	3D Honey-Comb like Nitrogen Self-Doped Porous Carbon Networks for High-Performance Electrochemical Detection of Antibiotic Drug Furazolidone. Journal of the Electrochemical Society, 2021, 168, 047503.	1.3	14
11	Engineering Layered Nanostructures of Two-Dimensional Transition Metal Dichalcogenides with CeO ₂ for Nano-Level Detection of Promethazine Hydrochloride. Journal of the Electrochemical Society, 2021, 168, 077503.	1.3	2
12	Facile synthesis of single-crystalline Fe-doped copper vanadate nanoparticles for the voltammetric monitoring of lethal hazardous fungicide carbendazim. Mikrochimica Acta, 2021, 188, 277.	2.5	19
13	Temperature abetted synthesis of novel magnesium stannate nanoparticles assisted for nanomolar level detection of hazardous flavonoid in biological samples. Food Chemistry, 2021, 361, 130162.	4.2	5
14	Simultaneous electrochemical determination of nitroaniline and flutamide based on iron vanadate and lanthanum vanadate nanocomposite modified electrode by voltammetric technique. Journal of Electroanalytical Chemistry, 2021, 901, 115772.	1.9	6
15	Manganese Molybdenum Oxide Micro Rods Adorned Porous Carbon Hybrid Electrocatalyst for Electrochemical Determination of Furazolidone in Environmental Fluids. Catalysts, 2021, 11, 1397.	1.6	4
16	A simple sonochemical assisted synthesis of NiMoO4/chitosan nanocomposite for electrochemical sensing of amlodipine in pharmaceutical and serum samples. Ultrasonics Sonochemistry, 2020, 64, 104827.	3.8	30
17	Sonochemical synthesis and fabrication of neodymium sesquioxide entrapped with graphene oxide based hierarchical nanocomposite for highly sensitive electrochemical sensor of anti-cancer (raloxifene) drug. Ultrasonics Sonochemistry, 2020, 64, 104717.	3.8	11
18	Elucidating ï€â€"ï€ interaction-induced extension effect in sandwich phthalocyaninato compounds. RSC Advances, 2020, 10, 317-322.	1.7	5

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19	Evaluating an effective electrocatalyst for the rapid determination of triptan drug (Maxaltâ,,¢) from (mono and binary) transition metal (Co, Mn, CoMn, MnCo) oxides <i>via</i> electrochemical approaches. New Journal of Chemistry, 2020, 44, 605-613.	1.4	21
20	One-Pot Sustainable Synthesis of Ce ₂ S ₃ /Gum Arabic Carbon Flower Nanocomposites for the Detection of Insecticide Imidacloprid. ACS Applied Materials & Interfaces, 2020, 12, 4980-4988.	4.0	42
21	Sonochemical approach to the synthesis of metal tungstate/nafion composite with electrocatalytic properties and its electrochemical sensing performance. Ultrasonics Sonochemistry, 2020, 66, 104901.	3.8	5
22	A feasible sonochemical approach to synthesize CuO@CeO2 nanomaterial and their enhanced non-enzymatic sensor performance towards neurotransmitter. Ultrasonics Sonochemistry, 2020, 63, 104903.	3.8	17
23	Facile sonochemical synthesis of rutile-type titanium dioxide microspheres decorated graphene oxide composite for efficient electrochemical sensor. Ultrasonics Sonochemistry, 2020, 62, 104872.	3.8	19
24	Facile synthesis of copper ferrite nanoparticles with chitosan composite for high-performance electrochemical sensor. Ultrasonics Sonochemistry, 2020, 63, 104902.	3.8	30
25	High-performance SERS detection of pesticides using BiOCl-BiOBr@Pt/Au hybrid nanostructures on styrofoams as 3D functional substrate. Mikrochimica Acta, 2020, 187, 580.	2.5	14
26	A nanocomposite consisting of cuprous oxide supported on graphitic carbon nitride nanosheets for non-enzymatic electrochemical sensing of 8-hydroxy-2′-deoxyguanosine. Mikrochimica Acta, 2020, 187, 459.	2.5	31
27	Platelet-structured strontium titanate perovskite decorated on graphene oxide as a nanocatalyst for electrochemical determination of neurotransmitter dopamine. New Journal of Chemistry, 2020, 44, 18431-18441.	1.4	13
28	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. Ultrasonics Sonochemistry, 2020, 67, 105164.	3.8	22
29	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. Ultrasonics Sonochemistry, 2020, 69, 105242.	3.8	22
30	Sonochemical synthesis of novel thermo-responsive polymer and tungsten dioxide composite for the temperature-controlled reversible "on-off―electrochemical detection of β-Blocker metoprolol. Ultrasonics Sonochemistry, 2020, 64, 105008.	3.8	6
31	Reversibly switchable ruthenium hybrid thermo-responsive electrocatalyst-based voltammetric sensor for sensitive detection of sulfamethazine in milk samples. Sensors and Actuators B: Chemical, 2020, 316, 128103.	4.0	25
32	Improving sensitivity of antimicrobial drug nitrofurazone detection in food and biological samples based on nanostructured anatase-titania sheathed reduced graphene oxide. Nanotechnology, 2020, 31, 445502.	1.3	15
33	Simplistic synthesis of ultrafine CoMnO3 nanosheets: An excellent electrocatalyst for highly sensitive detection of toxic 4-nitrophenol in environmental water samples. Journal of Hazardous Materials, 2019, 361, 123-133.	6.5	86
34	Sonochemical synthesis and fabrication of honeycomb like zirconium dioxide with chitosan modified electrode for sensitive electrochemical determination of anti-tuberculosis (TB) drug. Ultrasonics Sonochemistry, 2019, 59, 104718.	3.8	26
35	Electrochemical sensing of anti-inflammatory agent in paramedical sample based on FeMoSe2 modified SPCE: Comparison of various preparation methods and morphological effects. Analytica Chimica Acta, 2019, 1083, 88-100.	2.6	14
36	Synthesis, characterization and catalytic performance of nanostructured dysprosium molybdate catalyst for selective biomolecule detection in biological and pharmaceutical samples. Journal of Materials Chemistry B, 2019, 7, 5065-5077.	2.9	18

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37	Facile sonochemical synthesis of porous and hierarchical manganese(III) oxide tiny nanostructures for super sensitive electrocatalytic detection of antibiotic (chloramphenicol) in fresh milk. Ultrasonics Sonochemistry, 2019, 58, 104648.	3.8	28
38	A sensitive electrochemical determination of chemotherapy agent using graphitic carbon nitride covered vanadium oxide nanocomposite; sonochemical approach. Ultrasonics Sonochemistry, 2019, 58, 104664.	3.8	18
39	Two-Dimensional Copper Tungstate Nanosheets: Application toward the Electrochemical Detection of Mesalazine. ACS Sustainable Chemistry and Engineering, 2019, 7, 18279-18287.	3.2	31
40	A review of the advanced developments of electrochemical sensors for the detection of toxic and bioactive molecules. Inorganic Chemistry Frontiers, 2019, 6, 3418-3439.	3.0	91
41	A core-shell molybdenum nanoparticles entrapped f-MWCNTs hybrid nanostructured material based non-enzymatic biosensor for electrochemical detection of dopamine neurotransmitter in biological samples. Scientific Reports, 2019, 9, 13075.	1.6	62
42	Facile, low-temperature synthesis of tungsten carbide (WC) flakes for the sensitive and selective electrocatalytic detection of dopamine in biological samples. Inorganic Chemistry Frontiers, 2019, 6, 2024-2034.	3.0	20
43	A novel nanocomposite with superior electrocatalytic activity: A magnetic property based ZnFe2O4 nanocubes embellished with reduced graphene oxide by facile ultrasonic approach. Ultrasonics Sonochemistry, 2019, 57, 116-124.	3.8	14
44	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. Ultrasonics Sonochemistry, 2019, 58, 104596.	3.8	25
45	Developing green sonochemical approaches towards the synthesis of highly integrated and interconnected carbon nanofiber decorated with Sm2O3 nanoparticles and their use in the electrochemical detection of toxic 4-nitrophenol. Ultrasonics Sonochemistry, 2019, 58, 104595.	3.8	31
46	Evaluating Ternary Metal Oxide (TMO) core-shell nanocomposites for the rapid determination of the anti-neoplastic drug Chlorambucil (Leukeranâ,,¢) by electrochemical approaches. Materials Science and Engineering C, 2019, 103, 109724.	3.8	24
47	One-pot sonochemical synthesis of Bi2WO6 nanospheres with multilayer reduced graphene nanosheets modified electrode as rapid electrochemical sensing platform for high sensitive detection of oxidative stress biomarker in biological sample. Ultrasonics Sonochemistry, 2019, 57, 233-241.	3.8	22
48	Transition-Metal-Doped Molybdenum Diselenides with Defects and Abundant Active Sites for Efficient Performances of Enzymatic Biofuel Cell and Supercapacitor Applications. ACS Applied Materials & Interfaces, 2019, 11, 18483-18493.	4.0	54
49	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. Composites Part B: Engineering, 2019, 169, 249-257.	5.9	45
50	Facile Synthesis of Spinel-Type Copper Cobaltite Nanoplates for Enhanced Electrocatalytic Detection of Acetylcholine. ACS Sustainable Chemistry and Engineering, 2019, 7, 7642-7651.	3.2	42
51	Ultrasound-assisted synthesis of α-MnS (alabandite) nanoparticles decorated reduced graphene oxide hybrids: Enhanced electrocatalyst for electrochemical detection of Parkinson's disease biomarker. Ultrasonics Sonochemistry, 2019, 56, 378-385.	3.8	20
52	Enzyme-free electrocatalytic sensing of hydrogen peroxide using a glassy carbon electrode modified with cobalt nanoparticle-decorated tungsten carbide. Mikrochimica Acta, 2019, 186, 265.	2.5	21
53	Facile synthesis of mesoporous WS2 nanorods decorated N-doped RGO network modified electrode as portable electrochemical sensing platform for sensitive detection of toxic antibiotic in biological and pharmaceutical samples. Ultrasonics Sonochemistry, 2019, 56, 430-436.	3.8	37
54	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. Ultrasonics Sonochemistry, 2019, 56, 318-326.	3.8	36

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55	Rapid sonochemical synthesis of silver nano-leaves encapsulated on iron pyrite nanocomposite: An excellent catalytic application in the electrochemical detection of herbicide (Acifluorfen). Ultrasonics Sonochemistry, 2019, 54, 90-98.	3.8	13
56	A relative study on sonochemically synthesized mesoporous WS2 nanorods & hydrothermally synthesized WS2 nanoballs towards electrochemical sensing of psychoactive drug (Clonazepam). Ultrasonics Sonochemistry, 2019, 54, 79-89.	3.8	32
57	Facile synthesis and characterization of erbium oxide (Er2O3) nanospheres embellished on reduced graphene oxide nanomatrix for trace-level detection of a hazardous pollutant causing Methemoglobinaemia. Ultrasonics Sonochemistry, 2019, 56, 422-429.	3.8	32
58	Sonochemical synthesis of molybdenum oxide (MoO3) microspheres anchored graphitic carbon nitride (g-C3N4) ultrathin sheets for enhanced electrochemical sensing of Furazolidone. Ultrasonics Sonochemistry, 2019, 50, 96-104.	3.8	69
59	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. ACS Sustainable Chemistry and Engineering, 2019, 7, 5669-5680.	3.2	54
60	Amperometric sensing of nitrite at nanomolar concentrations by using carboxylated multiwalled carbon nanotubes modified with titanium nitride nanoparticles. Mikrochimica Acta, 2019, 186, 8.	2.5	32
61	Rational construction of novel rose petals-like yttrium molybdate nanosheets: A Janus catalyst for the detection and degradation of cardioselective β-blocker agent acebutolol. Chemical Engineering Journal, 2019, 359, 1472-1485.	6.6	33
62	Sonochemical synthesis of bismuth(III) oxide decorated reduced graphene oxide nanocomposite for detection of hormone (epinephrine) in human and rat serum. Ultrasonics Sonochemistry, 2019, 51, 103-110.	3.8	56
63	Hierarchically structured CuFe ₂ O ₄ ND@RGO composite for the detection of oxidative stress biomarker in biological fluids. Inorganic Chemistry Frontiers, 2018, 5, 944-950.	3.0	49
64	A simple architecture of cellulose microfiber/reduced graphene oxide nanocomposite for the electrochemical determination of nitrobenzene in sewage water. Cellulose, 2018, 25, 2381-2391.	2.4	26
65	Innovative Strategy Based on a Novel Carbon-Blackâ^î²-Cyclodextrin Nanocomposite for the Simultaneous Determination of the Anticancer Drug Flutamide and the Environmental Pollutant 4-Nitrophenol. Analytical Chemistry, 2018, 90, 6283-6291.	3.2	107
66	A new electrochemical sensor for highly sensitive and selective detection of nitrite in food samples based on sonochemical synthesized Calcium Ferrite (CaFe2O4) clusters modified screen printed carbon electrode. Journal of Colloid and Interface Science, 2018, 524, 417-426.	5.0	80
67	Highly selective electrochemical detection of antipsychotic drug chlorpromazine in drug and human urine samples based on peas-like strontium molybdate as an electrocatalyst. Inorganic Chemistry Frontiers, 2018, 5, 643-655.	3.0	32
68	Hydrothermal Synthesis of Cr2Se3 Hexagons for Sensitive and Low-level Detection of 4-Nitrophenol in Water. Scientific Reports, 2018, 8, 4839.	1.6	15
69	Highly sensitive fluorogenic sensing of L-Cysteine in live cells using gelatin-stabilized gold nanoparticles decorated graphene nanosheets. Sensors and Actuators B: Chemical, 2018, 259, 339-346.	4.0	50
70	A novel approach to iron oxide separation from e-waste and bisphenol A detection in thermal paper receipts using recovered nanocomposites. RSC Advances, 2018, 8, 39870-39878.	1.7	12
71	Determination of 8-hydroxy-2′-deoxyguanosine oxidative stress biomarker using dysprosium oxide nanoparticles@reduced graphene oxide. Inorganic Chemistry Frontiers, 2018, 5, 2885-2892.	3.0	45
72	Determination of the antioxidant propyl gallate in meat by using a screen-printed electrode modified with CoSe2 nanoparticles and reduced graphene oxide. Mikrochimica Acta, 2018, 185, 520.	2.5	28

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73	Detection of Pesticide Residues (Fenitrothion) in Fruit Samples Based On Niobium Carbide@Molybdenum Nanocomposite: An Electrocatalytic Approach. Analytica Chimica Acta, 2018, 1030, 52-60.	2.6	80
74	Ex-situ decoration of graphene oxide with palladium nanoparticles for the highly sensitive and selective electrochemical determination of chloramphenicol in food and biological samples. Journal of the Taiwan Institute of Chemical Engineers, 2018, 89, 26-38.	2.7	44
75	Synthesis and characterization of manganese diselenide nanoparticles (MnSeNPs): Determination of capsaicin by using MnSeNP-modified glassy carbon electrode. Mikrochimica Acta, 2018, 185, 313.	2.5	13
76	One-step synthesis of reduced graphene oxide sheathed zinc oxide nanoclusters for the trace level detection of bisphenol A in tissue papers. Ecotoxicology and Environmental Safety, 2018, 161, 699-705.	2.9	30
77	Voltammetric sensing of sulfamethoxazole using a glassy carbon electrode modified with a graphitic carbon nitride and zinc oxide nanocomposite. Mikrochimica Acta, 2018, 185, 396.	2.5	60
78	A Green Approach to the Synthesis of Wellâ€structured Prussian Blue Cubes for the Effective Electrocatalytic Reduction of Antiprotozoal Agent Coccidiostat Nicarbazin. Electroanalysis, 2018, 30, 1669-1677.	1.5	18
79	Economically applicable Ti2O3 decorated m-aminophenol-formaldehyde resin microspheres for dye-sensitized solar cells (DSSCs). Journal of Colloid and Interface Science, 2017, 494, 82-91.	5.0	15
80	Voltammetric determination of catechol based on a glassy carbon electrode modified with a composite consisting of graphene oxide and polymelamine. Mikrochimica Acta, 2017, 184, 1051-1057.	2.5	29
81	A novel Laccase Biosensor based on Laccase immobilized Graphene-Cellulose Microfiber Composite modified Screen-Printed Carbon Electrode for Sensitive Determination of Catechol. Scientific Reports, 2017, 7, 41214.	1.6	110
82	Methyl parathion detection in vegetables and fruits using silver@graphene nanoribbons nanocomposite modified screen printed electrode. Scientific Reports, 2017, 7, 46471.	1.6	152
83	A facile graphene oxide based sensor for electrochemical detection of prostate anti-cancer (anti-testosterone) drug flutamide in biological samples. RSC Advances, 2017, 7, 25702-25709.	1.7	80
84	Synthesis and characterization of polypyrrole decorated graphene/β-cyclodextrin composite for low level electrochemical detection of mercury (II) in water. Sensors and Actuators B: Chemical, 2017, 243, 888-894.	4.0	87
85	One pot electrochemical synthesis of poly(melamine) entrapped gold nanoparticles composite for sensitive and low level detection of catechol. Journal of Colloid and Interface Science, 2017, 496, 364-370.	5.0	41
86	Selective Colorimetric Detection of Nitrite in Water using Chitosan Stabilized Gold Nanoparticles Decorated Reduced Graphene oxide. Scientific Reports, 2017, 7, 14182.	1.6	73
87	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.	1.6	104
88	Investigation on the Electrocatalytic Determination and Photocatalytic Degradation of Neurotoxicity Drug Clioquinol by Sn(MoO ₄) ₂ Nanoplates. ACS Applied Materials & Interfaces, 2017, 9, 26582-26592.	4.0	45
89	Highly sensitive determination of non-steroidal anti-inflammatory drug nimesulide using electrochemically reduced graphene oxide nanoribbons. RSC Advances, 2017, 7, 33043-33051.	1.7	53
90	Two-dimensional metal chalcogenides analogous NiSe2 nanosheets and its efficient electrocatalytic performance towards glucose sensing. Journal of Colloid and Interface Science, 2017, 507, 378-385.	5.0	69

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91	A non-enzymatic amperometric hydrogen peroxide sensor based on iron nanoparticles decorated reduced graphene oxide nanocomposite. Journal of Colloid and Interface Science, 2017, 487, 370-377.	5.0	66
92	Non-enzymatic sensing of hydrogen peroxide using a glassy carbon electrode modified with a composite consisting of chitosanâ€encapsulated graphite and platinum nanoparticles. Mikrochimica Acta, 2016, 183, 2861-2869.	2.5	11
93	Nickel, copper and manganese hexacyanoferrate with poly(3,4-ethylenedioxythiophene) hybrid film modified electrode for selectively determination of ascorbic acid. Russian Journal of Electrochemistry, 2012, 48, 291-301.	0.3	18
94	Selective Electroanalysis of Ascorbic Acid Using a Nickel Hexacyanoferrate and Poly(3,4â€ethylenedioxythiophene) Hybrid Film Modified Electrode. Electroanalysis, 2010, 22, 1655-1662.	1.5	34
95	A disposable electrochemical sensor based on iron molybdate for the analysis of dopamine in biological samples. New Journal of Chemistry, 0, , .	1.4	5