Te-Wei Chiu

List of Publications by Year
in descending order

76 papers	1,384 citations	257450 24 h-index	395702 33 g-index
77 all docs	77 docs citations	77 times ranked	1615 citing authors

#	Article	IF	Citations
1	Selective Colorimetric Detection of Nitrite in Water using Chitosan Stabilized Gold Nanoparticles Decorated Reduced Graphene oxide. Scientific Reports, 2017, 7, 14182.	3.3	73
2	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.	9.4	66
3	Turning the Halide Switch in the Synthesis of Auâ€“Pd Alloy and Coreâ€“Shell Nanoicosahedra with Terraced Shells: Performance in Electrochemical and Plasmon-Enhanced Catalysis. Nano Letters, 2016, 16, 5514-5520.	9.1	65
4	Synthesis of nanosized CuCrO2 porous powders via a self-combustion glycine nitrate process. Journal of Alloys and Compounds, 2011, 509, 2933-2935.	5.5	53
5	Antibacterial property of CuCrO2 thin films prepared by RF magnetron sputtering deposition. Vacuum, 2013, 87, 174-177.	3.5	52
6	Reduced Graphene Oxide Supported Cobalt Bipyridyl Complex for Sensitive Detection of Methyl Parathion in Fruits and Vegetables. Electroanalysis, 2017, 29, 1950-1960.	2.9	43
7	Synthesis, Structure, and Transformation of Novel Osmium Azine and Ylide Complexes. Inorganic Chemistry, 2005, 44, 6425-6430.	4.0	42
8	Influence of oxygen pressure on the structural, electrical and optical properties of VO2 thin films deposited on ZnO/glass substrates by pulsed laser deposition. Thin Solid Films, 2010, 518, 7441-7444.	1.8	41
9	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.	9.4	41
10	Platinum incorporated mordenite zeolite modified glassy carbon electrode used for selective electrochemical detection of mercury ions. Microporous and Mesoporous Materials, 2020, 292, 109770.	4.4	41
11	Preparation of p-type conductive transparent CuCrO2:Mg thin films by chemical solution deposition with two-step annealing. Ceramics International, 2012, 38, S673-S676.	4.8	37
12	Preparation of delafossite CuFeO2 coral-like powder using a self-combustion glycine nitrate process. Ceramics International, 2013, 39, S575-S578.	4.8	35
13	Simple thermal decomposition of bismuth citrate to Bi/C/Î±-Bi2O3 with enhanced photocatalytic performance and adsorptive ability. Catalysis Today, 2020, 340, 40-48.	4.4	34
14	Fabrication of ZnO and CuCrO2:Mg thin films by pulsed laser deposition with in situ laser annealing and its application to oxide diodes. Thin Solid Films, 2008, 516, 5941-5947.	1.8	33
15	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.	6.0	32
16	Hexammine cobalt(<scp>iii</scp>) coordination complex grafted reduced graphene oxide composite for sensitive and selective electrochemical determination of morin in fruit samples. Inorganic Chemistry Frontiers, 2018, 5, 1145-1155.	6.0	32
17	Novel Bifunctional Electrocatalyst for ORR Activity and Methyl Parathion Detection Based on Reduced Graphene Oxide/Palladium Tetraphenylporphyrin Nanocomposite. Journal of Physical Chemistry C, 2017, 121, 14096-14107.	3.1	30
18	Catalytic activity of ratio-dependent SBA-15 supported zirconia catalysts for highly selective oxidation of benzyl alcohol to benzaldehyde and environmental pollutant heavy metal ions detection. Journal of Molecular Structure, 2019, 1176, 650-661.	3.6	29

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19	Enhanced silver loaded antibacterial titanium implant coating with novel hierarchical effect. Journal of Biomaterials Applications, 2018, 32, 1289-1299.	2.4	28
20	Simple Sonochemical Synthesis of Cupric Oxide Sphere Decorated Reduced Graphene Oxide Composite for the Electrochemical Detection of Flutamide Drug in Biological Samples. Journal of the Electrochemical Society, 2019, 166, B68-B75.	2.9	27
21	Production of hydrogen from steam reforming ofÂmethanol carried out by self-combusted CuCr1-xFexO2 (x = 0â€“1) nanopowders catalyst. International Journal of Hydrogen Energy, 2019, 44, 2848-2856.	7.1	27
22	Investigation of electrocatalytic and photocatalytic ability of Cu/Ni/TiO2/MWCNTs Nanocomposites for detection and degradation of antibiotic drug Furaltadone. Scientific Reports, 2022, 12, 886.	3.3	27
23	CuFeO2â€“CeO2 nanopowder catalyst prepared by self-combustion glycine nitrate process and applied for hydrogen production from methanol steam reforming. International Journal of Hydrogen Energy, 2020, 45, 15752-15762.	7.1	25
24	Growth of b-axis oriented VO2 thin films on glass substrates using ZnO buffer layer. Applied Surface Science, 2010, 256, 6834-6837.	6.1	24
25	Highly sensitive and selective electrochemical detection of dopamine based on CuCrO2-TiO2 composite decorated screen-printed modified electrode. Microchemical Journal, 2021, 160, 105694.	4.5	24
26	Improving steam-reforming performance by nanopowdering CuCrO2. International Journal of Hydrogen Energy, 2014, 39, 14222-14226.	7.1	22
27	A new solution route for the synthesis of CuFeO2 and Mg-doped CuFeO2 as catalysts for dye degradation and CO2 conversion. Journal of Alloys and Compounds, 2021, 854, 157235.	5.5	20
28	Ecofriendly preparation of graphene sheets decorated with an ethylenediamine copper(<scp>ii</scp>) complex composite modified electrode for the selective detection of hydroquinone in water. Inorganic Chemistry Frontiers, 2018, 5, 490-500.	6.0	19
29	Highly selective oxidation of benzyl alcohol over Pt-sulphated zirconia supported on SBA-15 catalyst by using a high-pressure fixed bed reactor. Polyhedron, 2018, 155, 390-397.	2.2	19
30	Antibacterial property of CuCrO2 nanopowders prepared by a self-combustion glycine nitrate process. Materials Chemistry and Physics, 2016, 179, 182-188.	4.0	16
31	Synthesis of N-rGO-MWCNT/CuCrO2 Catalyst for the Bifunctional Application of Hydrogen Evolution Reaction and Electrochemical Detection of Bisphenol-A. Catalysts, 2021, 11, 301.	3.5	16
32	Reduced Graphene Oxide/Multiwalled Carbon Nanotube Composite Decorated with Fe₃O₄ Magnetic Nanoparticles for Electrochemical Determination of Hydrazine in Environmental Water. Journal of Nanoscience and Nanotechnology, 2020, 20, 3148-3156.	0.9	15
33	Synthesis of Pr2CuO4 powders by using a glycineâ€“nitrate combustion method for cathode application in intermediate-temperature solid oxide fuel cells. Ceramics International, 2015, 41, S675-S679.	4.8	14
34	The novel preparation method of high-performance thermochromic vanadium dioxide thin films by thermal oxidation of vanadium-stainless steel co-sputtered films. Vacuum, 2015, 121, 310-316.	3.5	13
35	Hydrothermal synthesis of high surface area CuCrO₂ for H₂ production by methanol steam reforming. RSC Advances, 2021, 11, 12607-12613.	3.6	13
36	Microstructure of orientation controlled VO2 thin films via ZnO buffer. Thin Solid Films, 2013, 529, 119-122.	1.8	12

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37	Preparation of CuCrO2 nanowires by electrospinning. Ceramics International, 2015, 41, S407-S413.	4.8	12
38	An approach to develop high performance supercapacitor using Bi2O3 based binary and ternary nanocomposites. Journal of Materials Science: Materials in Electronics, 2020, 31, 22417-22426.	2.2	12
39	Fabrication of electrospun CuCr2O4 fibers. Ceramics International, 2015, 41, S399-S406.	4.8	11
40	Preparation and properties of CuCr1â^'xFexO2 thin films prepared by chemical solution deposition with two-step annealing. Thin Solid Films, 2016, 618, 151-158.	1.8	11
41	Hydrogen generation by methanol steam reforming process by delafossite-type CuYO2 nanopowder catalyst. Microporous and Mesoporous Materials, 2021, 324, 111305.	4.4	11
42	One-step route to Î±-Bi2O3/BiOX (XÂ=ÂCl, Br) heterojunctions with Bi2O3 ultrafine nanotubes closely adhered to BiOX nanosheets. Journal of the Taiwan Institute of Chemical Engineers, 2022, 131, 104147.	5.3	11
43	Preparation and characterization of CuCrO 2 -CeO 2 composite nanopowder by a self-combustion glycine nitrate process. Ceramics International, 2017, 43, S639-S642.	4.8	10
44	Fabrication and characteristic of delafossite-type CuFeO2 nanofibers by electrospinning method. Ceramics International, 2018, 44, S80-S83.	4.8	10
45	Preparation of CuCrO2 Hollow Nanotubes from an Electrospun Al2O3 Template. Nanomaterials, 2019, 9, 1252.	4.1	10
46	Ultrathin Octahedral CuPt Nanocages Obtained by Facet Transformation from Rhombic Dodecahedral Coreâ€“Shell Nanocrystals. ACS Sustainable Chemistry and Engineering, 2020, 8, 10544-10553.	6.7	10
47	Novel construction of carbon nanofiber/CuCrO₂ composite for selective determination of 4-nitrophenol in environmental samples and for supercapacitor application. RSC Advances, 2021, 11, 15856-15870.	3.6	9
48	Preparation and characterization of delafossite CuCrO2 film on flexible substrate. Ceramics International, 2021, 47, 23234-23239.	4.8	9
49	Anisotropic delafossite-type CuFeO₂ thin films deposited by electrospinning with rotating collector. Journal of the Ceramic Society of Japan, 2019, 127, 498-503.	1.1	8
50	Enhanced Electrocatalytic Activity of Non-metal-Doped Transition Metal Oxides for an Electrochemical Detection of Furazolidone. Electrocatalysis, 2022, 13, 348-360.	3.0	8
51	Properties and Performance of La₂NiO_{4+Î´}-LaNiO₃Composite Cathodes for Intermediate-Temperature Solid Oxide Fuel Cells. Ferroelectrics, 2013, 457, 105-110.	0.6	7
52	Fabrication of Transparent CuCrO₂:Mg/ZnO pâ€“n Junctions Prepared by Magnetron Sputtering on an Indium Tin Oxide Glass Substrate. Japanese Journal of Applied Physics, 2013, 52, 05EC02.	1.5	7
53	CuCr1â^'xNixO2 thin films prepared by chemical solution deposition. Thin Solid Films, 2018, 660, 705-710.	1.8	7
54	Preparation of CuAl2O4 submicron tubes from electrospun Al2O3 fibers. Ceramics International, 2019, 45, 1439-1442.	4.8	7

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55	Highly sensitive detection of environmental pollutant cadmium with ultrasonic irradiated Pt-supported ZSM-5 modified electrode. Microporous and Mesoporous Materials, 2020, 307, 110449.	4.4	7
56	Transparent and antibacterial Cu2Y2O5 thin films by chemical solution deposition. Thin Solid Films, 2014, 570, 547-551.	1.8	6
57	Efficient Electrocatalyst for Hydrogen Evolution Reaction based on N-rGO-MWCNT/CuAlO₂ Nanocomposite in Acidic Media. ECS Journal of Solid State Science and Technology, 2021, 10, 045011.	1.8	6
58	Preparation of CuCr1-xFexO2Delafossite Solid Solution Powder Via a Self-Combustion Glycine Nitrate Process. Ferroelectrics, 2016, 491, 149-154.	0.6	5
59	Lamination of CuCrO2 thin films to poly methyl methacrylate substrate with boron nitride demolding layer. Ceramics International, 2018, 44, S22-S25.	4.8	5
60	Nanoplasmonic Structure of a Polycarbonate Substrate Integrated with Parallel Microchannels for Label-Free Multiplex Detection. Polymers, 2021, 13, 3294.	4.5	5
61	Preparing and applying nanosheets in controlling the orientation of TiO2 thin films. Ceramics International, 2015, 41, S213-S217.	4.8	4
62	Synthesis of CuCrO2-TiO2 composite nano powder by a self-combustion glycine nitrate process. Ceramics International, 2018, 44, S76-S79.	4.8	4
63	Activated Graphite Supported Tunable Auâ€“Pd Bimetallic Nanoparticle Composite Electrode for Methanol Oxidation. Journal of Nanoscience and Nanotechnology, 2020, 20, 6376-6384.	0.9	4
64	Preparation of CuCrO2 Anisotropic Dela-fossite-Type Thin Film by Electrospinning on Glass Substrates. Ceramics, 2021, 4, 364-377.	2.6	4
65	Synthesis of B-RGO-MWCNT/CuFeO₂ Composite for Efficient Hydrogen Evolution Reaction. ECS Journal of Solid State Science and Technology, 2021, 10, 111001.	1.8	4
66	Preparation of transparent Cu2Y2O5 thin films by RF magnetron sputtering. Applied Surface Science, 2015, 354, 110-114.	6.1	3
67	Preparation and characterization of CuCrO2â€“CeO2 nanofibers by electrospinning method. Journal of Materials Science: Materials in Electronics, 2022, 33, 1091-1100.	2.2	3
68	CuAlO2/AlN double-layer thin film prepared by the spin coating approach. Thin Solid Films, 2022, 753, 139260.	1.8	3
69	Photodeposition of Au nanocatalysts onto CuCrO₂ powders. Journal of the Ceramic Society of Japan, 2014, 122, 256-259.	1.1	2
70	Fabrication of Pr2NiO4-Sm0.2Ce0.8O2-Î´ composite via co-electrospinning and its application in cathode of intermediate temperature solid oxide fuel cells. Integrated Ferroelectrics, 2017, 184, 1-8.	0.7	2
71	Preparation of IT-SOFC with Pr₂NiO₄ cathode and hybrid Ce_{0.8}Sm_{0.2}O_{1.9} electrolyte. Journal of the Ceramic Society of Japan, 2019, 127, 249-253.	1.1	2
72	Formation of a pâ€n heterojunction photocatalyst by the interfacing of graphitic carbon nitride and delafossite <scp>CuGaO₂</scp>. Journal of the Chinese Chemical Society, 2022, 69, 1042-1050.	1.4	2

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73	Preparation of Tungsten Bronze Type Ferroelectric Ba_{0.75}Y_{0.166}Nb₂O₆ Thin Films by RF Magnetron Sputtering with LaNiO₃ Bottom Electrodes. Key Engineering Materials, 2002, 228-229, 99-106.	0.4	1
74	Electrospinning of Pr₂CuO₄ Fiber and its Cathode Application in Solid Oxide Fuel Cell. Transactions of the Materials Research Society of Japan, 2018, 43, 43-47.	0.2	1
75	Environmental Remediation of Toxic Organic Pollutants Using Visible-Light-Activated Cu/La/CeO2/GO Nanocomposites. Materials, 2021, 14, 6143.	2.9	1
76	Implementation of SOPC based Telecom & Datacom for monitoring wireless sensor networks. Telecommunication Systems, 2013, 52, 2325-2333.	2.5	0